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W. J. Bennett & Co., Inc.

Duplicate

1910

"DIAMOND
QUALITY"



*Radish.
Spotted Triumph.*

PORTLAND, ORE.
180-182-184
FRONT ST.

Oregon Pole Lima.

W. J. Bennett



HANDPICKING
"DIAMOND QUALITY"
 SEEDS

OUR WAREHOUSE IN
 EAST PORTLAND.

It is here that all seeds and grains are carefully inspected, recleaned and made ready for our customers, the final step in the making of **"Diamond Quality."**

HAND PICKING.

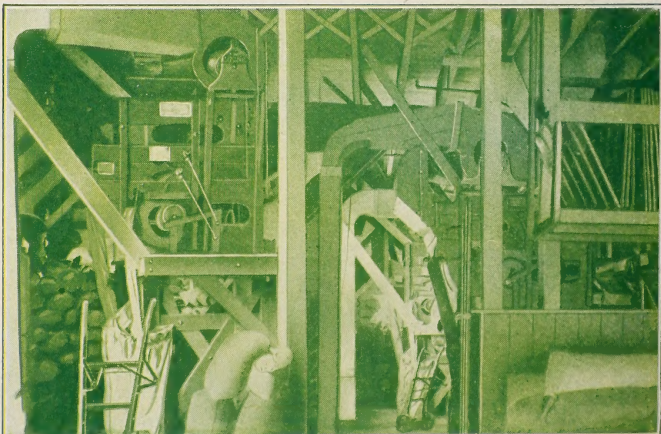
Peas, Beans, Corn and such large seeds are carefully hand-picked by competent employees, using the little machines shown in the illustration. This is an expensive process, but is necessary to secure true, pure seeds. It helps to make our **"Diamond Quality."**

CLIPPER FANNING MILLS IN
 USE IN OUR WAREHOUSE.

"Clipper" Cleaners are used by all first-class seed houses and growers, because they are the only cleaners made that will successfully clean all kinds of seeds and grains, and no other Fanning Mill can equal the quality of their work.

They are the best investment a farmer can make.

We are Western agents for "Clipper" Cleaners. See Page 105.



"DIAMOND QUALITY."

Experience, a thorough knowledge of our business and the markets of the world, enables us to furnish the very best seeds, plants and supplies obtainable. It has taken many years to establish this relation with the producers and best growers, but only in this way is it possible to obtain the finest true stocks at no greater cost to our customers than the ordinary kinds.

Look for our Diamond trade mark. It means **real quality**—the best obtainable. It's your protection.



PORTLAND SEED CO.'S COMPLETE SEED ANNUAL

No. 65 For 1910

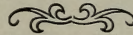
ABOUT "DIAMOND QUALITY" SEEDS

DIAMOND QUALITY in Seeds represents the experience of nearly a quarter of a century of handling and growing seeds for Western requirements, and our business has steadily increased during all this time, which is the true test of QUALITY and SERVICE, and we are still striving to anticipate the demands of our trade by constantly increasing the facilities for the handling of our business and the convenience of our customers.

To this end, and to meet the growing demand, we have spared neither time nor money to make our 1910 Seed Annual complete and dependable. The different departments have been carefully rearranged, the descriptions are not exaggerated, the illustrations are not misleading, unless it be that they do not do justice to the subjects; for we trust by honest, straightforward dealing and plain statement of facts to merit your confidence; and, as in the past, we will give our most careful attention to your requirements, be they large or small.

We appreciate your patronage, and are here to please you.

PORTLAND SEED COMPANY



READ CAREFULLY

HELPFUL SUGGESTIONS ABOUT ORDERING

WHEN TO ORDER. Send in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this Catalog reaches you, and if you do not want all sent now we will send part now and the balance later. The advantage of this is that your order is entered and filled or stock reserved for it; and when you do want it, it can be sent upon notice without delay. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants, and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits. If shipped early, they are at buyer's risk.

LARGE ORDERS. Any dealer, market gardener, institution or individual wishing seed in large quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity.

SEND MONEY BY Postoffice or Express Money Order, Bank Draft or Registered Letter. Postage stamps will be accepted for small amount. Money sent in any other way is entirely at sender's risk.

USE ORDER BLANK in the front of your Catalog, carefully filling out the blank spaces at the top for shipping directions.

NOTE—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association; i. e.:—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.—Portland Seed Co.

BE SURE TO SIGN YOUR NAME, giving Postoffice and State. Do not write letters on the same sheet as orders.

SEEDS POSTPAID BY MAIL. We send all vegetable and flower seeds in quantities of one pound or less by mail, postpaid, to any Postoffice in the United States, at the prices named in this Catalog, unless otherwise stated.

BY FREIGHT OR EXPRESS. In ordering vegetable or flower seeds to be sent by freight or express at your expense, deduct 10c. per pound from single pound prices, where postage has been added.

PREPAY STATIONS. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always the case where there is no regular agent.


COMPLAINTS OR PRAISES. If you are well pleased with our goods, and manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully, and with our added equipment and perfected organization, we hope to handle our future business in a way that will please you. Be sure to order early—before stocks are depleted.

OUR RETAIL SALES-ROOM



"DIAMOND QUALITY" VEGETABLE SEEDS

Grown especially for us from our own select strains.
Carefully re-cleaned, and tested for germination.

WE have marked those varieties that mature early with this little Diamond , our trade mark. This will aid you in the selections for your home garden. If you live in Northeastern Oregon or Washington, you will have better success with your garden by planting these early maturing varieties after the spring weather is settled and the ground warm, than if you planted very early, as many seeds will not give best results in the cold damp of the early spring, and even if they live the plant may be stunted and not grow well. Of course, these suggestions are only general, as you will note that many special sorts can be planted very early. If you live in the Willamette Valley or Southern Oregon, you can plant almost anything as early as the condition of the soil will permit.

Do not work the soil when it is wet, and if you will press the dirt firmly down on the seeds they will germinate quickly even in comparatively dry soil. Any extra work in carefully preparing the soil will more than repay you in the increased results, and always remember that constant and thorough cultivation is equal to water and fertilizer both, and will insure a good crop even in a dry season and on ordinary soil. If you are in doubt about what you should do, or want any special information, be sure to write to us. We will be pleased to give your inquiries our careful attention, and will advise you to the full extent of our knowledge.

ARTICHOKE

LARGE GREEN GLOBE.

The variety used as a table vegetable. The edible portion is the thick end of leaf of the flower head. Sow early in drills one foot apart, and when about ten inches high transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens. **Pkt., 5c.; oz., 35c.**

ARTICHOKE TUBERS.

For prices and description of this valuable feed root, see Farm and Field Seeds, page 42.



GREEN GLOBE ARTICHOKE.

ASPARAGUS

Asparagus is one of the earliest spring vegetables, and would be in universal use were it not for the mistaken idea that it is difficult to grow. In reality it can be produced very easily and cheaply. A bed 15x50 feet, requiring about 100 plants, should give an abundant supply for an ordinary family.

CULTURE—Soak the seeds 24 hours in warm water, and sow early in drills one foot apart. An ounce of seed will sow about 300 feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant into permanent beds. A warm, sandy soil is the best, and one which has for some years been cultivated in garden crops and heavily manured is greatly to be preferred to a fresh soil. But at no period of its growth should the asparagus crop be allowed to lack for manuring. From one to three years' time can be saved by buying roots of us. For roots, see page 82. 7260 roots will plant an acre.

CONNOVER'S COLOSSAL.

A large and rapid grower of excellent quality; color, green.
Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

COLUMBIAN MAMMOTH WHITE.

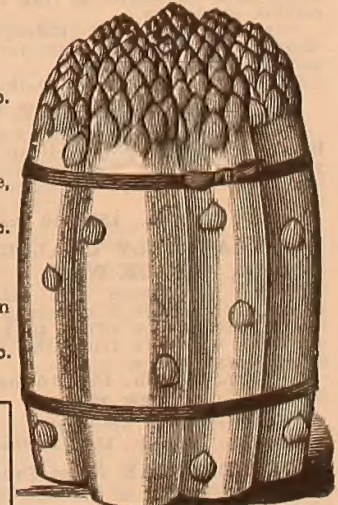
A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early.
Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; 1 lb., 75c.

PALMETTO.

This is claimed to be an earlier, better yielder and more even grower than Colossal. The best known green variety.
Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; 1 lb., 65c.

—GENEROUS TREATMENT—PROMPT SERVICE.

Manton, Cal., July 7, 1909.
Dear Sirs: The seed I got from you all grew splendidly, and your packages are so much larger than I get from other seed men, and you are prompt in sending, too.
Yours truly,
MRS. L. J. BLODGETT.

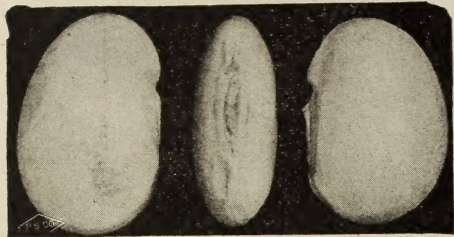


ASPARAGUS. (Cut and bunched.)

ASPARAGUS CULTURE.—By Hexamer. See Book List, page 83.

BEANS

CULTURE—The soil best adapted for growing Beans is a light, rich, well-drained loam, which was well manured for the previous crop. If the ground is too freshly manured, the plants are apt to run to vines and set few blossoms. Plant in drills about two inches deep and from eighteen inches to two feet apart, as soon as the ground is dry enough. Beans are very sensitive to cold and wet before they have sprouted, but are not so liable to be damaged after they are above ground.



NEW—1910
PORTLAND SEED CO.'S
OREGON POLE LIMA
 (HALF DWARF)

**The First Lima Bean We Have Ever
 Known to Thrive in Our
 Cool Climate**

(See illustration on front cover.)

All gardeners will be delighted to learn that we can now offer a Lima Bean that will thrive in our Western country, and we know our **New Oregon Lima** will be a pleasing surprise to you. The original seed came from the United States Department of Agriculture and has been growing in an obscure corner of Multnomah County for nine years, gradually becoming acclimated and being developed up to its present splendid form.

We have closely observed its growth for several seasons and there has never been a failure, but always a steady improvement, and we consider it the most valuable addition to our list, as it is the only Bean in its class for Northwestern growers.

Oregon Pole Lima grows to an average height of about five feet, is a strong, thrifty vine and very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured pods at the bottom of the vine. Pods are well filled, having three to five large Beans of the finest quality, either green or dry.

Oregon Pole Lima can be planted in any good garden soil as early as April or late as July. Give the same care and culture as other Beans.

We specially urge you to give this most delicious vegetable a trial. Order early, as stock is limited.

Special low introductory offer of trial packet, 25 SEEDS—25c.

WAX OR YELLOW PODDED KINDS—DWARF OR BUSH

When ordering Beans by mail, add 10c. per pound for postage.

**VIOLET FLAGEOLET OR PERFECT
 WAX.**

One of the earliest wax varieties, and continues in bearing until late fall. It is of sturdy habit, bearing its fine, large stringless pods in great profusion well up from the ground. We recommend it as the best Wax Bean for home gardens.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

DAVIS WAX.

Rustless and immensely productive, very hardy and one of the best for market gardeners.

The dried bean is kidney-shaped, clear white, and a favorite for baking and canning.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

WARDWELL'S KIDNEY WAX.

Vines are of medium size, with long, flat pods of a delicate, waxy yellow, very brittle and entirely stringless. We specially recommend this bean.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

**EXTRA EARLY CHALLENGE
 BLACK WAX.**

Market gardeners and others to whom earliness is a matter of prime importance cannot afford to be without this, which is truly the "earliest of all" wax beans.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

GOLDEN WAX.

Very hardy and productive.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

DETROIT WAX (Rust Proof).

Extra early; one of the best for shipping long distances.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.



VIOLET
 FLAGEOLET
 WAX.

Gardeners who buy Beans in large quantities should write for special prices.

BEANS—Continued**DWARF OR BUSH—GREEN PODDED KIND**

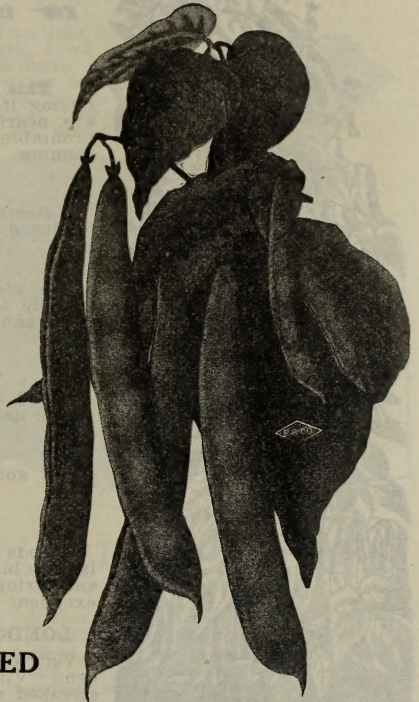
When ordering Beans by mail, add 10c per pound for postage.

CANADIAN WONDER.

This splendid Bush Bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Comes a little later than the New Stringless Green Pod, but continues in bearing throughout the season, and is excellent shelled green. Pkt., 10c.; lb., 20c.

NEW STRINGLESS.

The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. It is of immense value, not only to the market gardener, but also for those who seek early beans of a rare quality for the home table. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.



CANADIAN WONDER.

"IT CERTAINLY IS A DANDY."

Lyle, Wash., Apr. 3, '09.
Gentlemen: The No. 4 Combined Drill received, and I am very much pleased with it. It beats anything in the way of a tool that I ever saw for the purpose. I am as pleased as a boy with a new toy, for it certainly is a dandy. Yours respectfully,
GEO. A. FITCH.

EXTRA EARLY RED**VALENTINE****IMPROVED ROUND POD.**

This improved strain has a healthy, vigorous growth. The Beans are small, but the pods are thick, round and fleshy; very tender, rich, and quite stringless. A popular bean for canning green.

Bush grows to a height of fifteen inches and is very prolific. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

REFUGEE, OR THOUSAND TO ONE.

Of great value on account of its hardiness, vigorous growth and wonderful productiveness. Is not excelled by any other variety as a snap bean, and is considered the best for pickling or canning. Beans small, dark purple, veined brown. Pods of perfect form, dark green, veined purple.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.10.

DWARF HORTICULTURAL.

Stock erect, strong and shrubby. The bean is highly prized, green shelled. It is rather large, plump, and beautifully mottled yellow and red.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

ROYAL WHITE KIDNEY.

This bean is large, long, slightly curved, and pure white. It yields a heavy crop and is one of the best, either green shelled or dry.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

LADY WASHINGTON.

This small, white Bush Bean is grown for use dry shelled, and is a great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder, being especially adapted to our western soils, and is entirely free from disease. Bush attains a height of about fourteen inches, and beans mature in September.

Pkt., 10c.; lb., 15c.; 10 lbs., 85c.

BROAD WINDSOR.

Stock erect, strong and shrubby. The bean is large, broad and flat; it is the best green shelled.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.20.

WHITE NAVY.

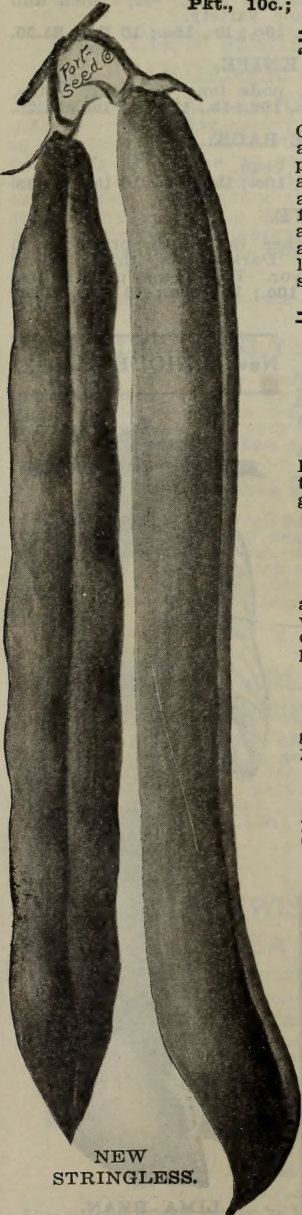
Grown extensively for marketing dry shelled. The best known small white Bean. Dwarf in growth and very productive.

Pkt., 10c.; lb., 15c.; 10 lbs., 85c.

CASTOR BEAN.

Used for medicinal purposes and by some claimed to keep moles away.

Pkt., 10c.; lb., 25c.



NEW STRINGLESS.

CLIMBING OR POLE BEANS

If ordering by mail, add 10c. per pound for postage.

ASPARAGUS

This is the true Asparagus Bean. A very prolific sort, producing its long pods in large clusters. The pods, when young, are nearly round, of best flavor and excellent for snaps. A profitable bean for the market gardener. Extensively used for canning. Pkt., 10c.; lb., 30c.; 10 lbs., \$2.50.

INDIAN CHIEF, OR TALL BLACK WAX.

Remarkable for its fine, tender and succulent pods, which are produced in great abundance. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

KENTUCKY WONDER.

A vigorous climber; very prolific; bearing in clusters; extremely long and very fleshy, succulent pods, flat, thick and remarkably tender. A first-class pole variety. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.



DUTCH CASE KNIFE.

Good corn hill bean; very early; pods long and flat; beans, white; used green or dry. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

WHITE CREASE BACK.

A good, early, green-podded pole bean. Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

LAZY WIFE.

Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless; of unusually rich flavor. Dry beans, pure white; excellent for winter use. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

LONDON HORTICULTURAL.

Very desirable for the family garden. Vines vigorous; pods green, streaked with red. Bean large, oval, cream colored, beautifully splashed with red. Has no superior, green shelled or dry. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.50.

New "UNIQUE" Page 27



KENTUCKY WONDER.

SCARLET RUNNER.

A favorite as a shell bean and for its flowers, which are bright scarlet; seeds broad and kidney shaped. Pkt., 10c.; lb., 30c.

LIMA BEANS



1910—OREGON POLE LIMA—1910

See page 4.

BURPEE'S BUSH LIMA.

Beans as large and as fine in quality as the pole varieties. It is also a heavy yielder. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

LARGE WHITE POLE LIMA.

Vine tall growing; pods long, broad, very thin, dark green; beans large, kidney shaped, greenish-white, flat. Pkt., 10c.; lb., 20c.; 10 lbs., \$1.60.

WESTERN SEED BEST.

Elkhead, Ore., Jan. 4, 1909.

Gentlemen: Will you please send me one of your seed catalogs? I would like to have it real soon, as I want some early garden seed, and would rather order from your store than elsewhere, because I can have better luck with Portland Seed than I can the Eastern seed.

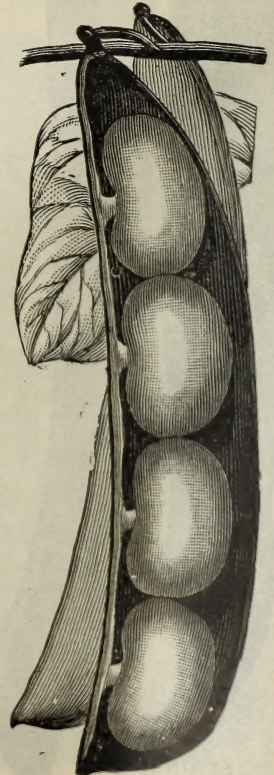
Hoping to receive one of your catalogs, I am, Very truly yours,
MRS. A. LACKY.

MONEY MAKERS.

Freewater, Ore., Sept. 9, 1909.

Dear Sirs: The 400 lbs. of Challenge Black Wax Beans were received in good condition that I got from you last spring, and I had a good crop. Will want the same amount next spring. They are money-makers. Yours truly,

G. W. WHARTON.



LIMA BEAN.

BEET

CULTURE—The Beet is hardy and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the rows. For field crop, the rows should be far enough apart to permit the use of a horse cultivator.

EARLY ECLIPSE

One of the best early sorts. It possesses all the qualities requisite in a first-class beet, and is of a uniform, globular shape. The roots are a bright, glossy red, fine-grained and delicious. **Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.**

P. S. CO.'S MARKET GARDENER

This new, extra early Beet is remarkable for its fine quality and rapid growth; it is of deep red color and handsome shape; as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance and of superior quality for the table. Market gardeners prefer it.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

EXTRA EARLY EGYPTIAN

The best variety for forcing, and for market gardeners, being very early with small tops. Roots very dark red, rounded on top, but flat beneath, with very small tap roots.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

HALF LONG BLOOD

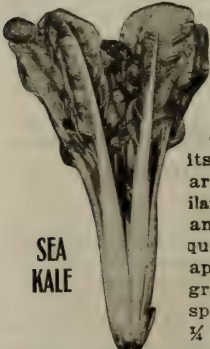
A new variety of excellent quality. One of the very best for winter use; does not become woody and keeps as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. Give it a trial.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

IMPROVED EARLY BLOOD TURNIP

An extra selected stock of blood turnip, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerably longer time to mature. Excellent for summer and autumn use.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.



SWISS CHARD, OR SEA KALE BEET

Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach. **Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.**

SEA KALE



DETROIT DARK RED

A "Planet Jr." makes Gardening a pleasure. Page 106.

DETROIT DARK RED TURNIP

A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip-shape, with small tap-roots. One of the deepest red beets. Quality is of the finest; sweet and tender; best beet for home garden.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

LONG SMOOTH DARK BLOOD

The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes them tender. Top small, root long and smooth. Flesh deep purple, fine and sweet.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

SUGAR BEET

FRENCH WHITE SUGAR.

(See Cut No. 6, page 8.)

The sort most generally grown, as it combines, with heavy yield, a good percentage of sugar. It has produced 30 tons of beets to the acre, and contains from 10 to 13 per cent of sugar. The largest yields known have been obtained from this variety.

Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

LANE'S IMPERIAL SUGAR.

This is an excellent variety and one of the best for stock feeding.

Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 40c.

KLEIN WANZLEBEN.

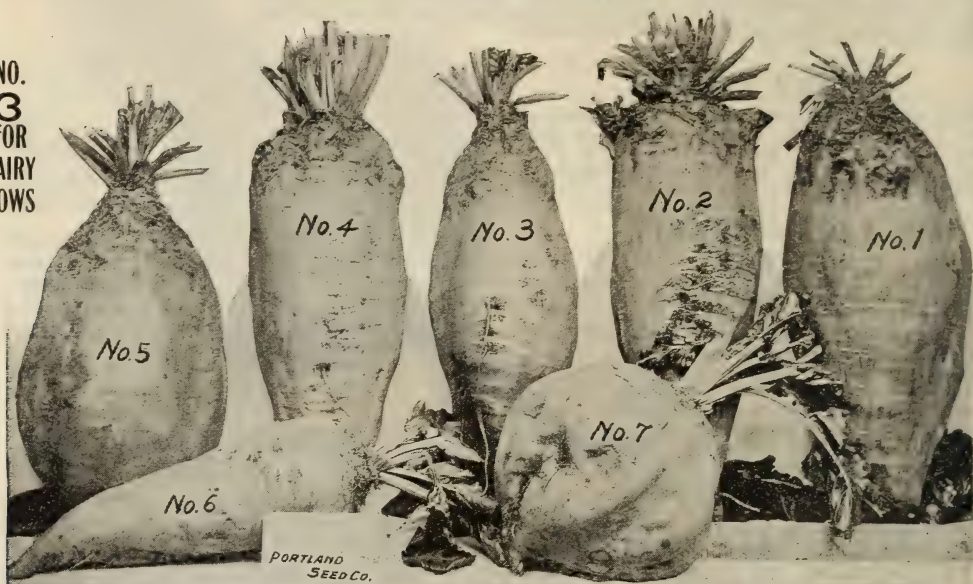
This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose. Our stock of seed is imported direct from one of the most careful German growers, and will give the very best results.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 45c.

MANGEL WURZEL BEET

These are grown extensively for stock feeding, and afford large quantities of fresh, nutritious and wholesome food during the winter months, in connection with grain and dried forage. Sugar Beets are richer and sweeter than Mangels, but the latter will generally produce one-third to one-half heavier crops per acre, and hence are preferred by many farmers.

NO.
3
FOR
DAIRY
COWS



FAVORITE BEETS FOR STOCK FEEDING (from Photograph). See cut numbers and description.

NEW MANGEL HALF SUGAR.

(Cut No. 4.)

A new variety, more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots large, very smooth, with few rootlets; creamy white in color, with medium sized top. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 45c. Not postpaid, lb., 35c.; 5 lbs., \$1.50.

MAMMOTH LONG RED.

(Cut No. 2.)

An improvement on the Long Red. It stands head and shoulders above all other varieties of Mangels; unequalled for yielding and feeding qualities. Grows to a very large size, and will yield 50 tons per acre with ordinary cultivation. If you want a large crop of large Mangels of good quality, don't fail to try this sort. Very uniform, smooth and of good shape. Should be grown in deep, loose soil.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c. Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.25.

YELLOW GLOBE.

(Cut No. 7.)

Finest type of Yellow Globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained, renders it an excellent keeping variety. Well adapted to shallow soils.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb. 35c. Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.00.

YELLOW GIANT, INTERMEDIATE, LEVIATHAN, OR GATE POST.

(Cut No. 1.)

Roots very large, growing over one-half out of the ground; flesh white, sweet and tender; tops, bright green, comparatively small; neck small, short. We think perhaps this is the best of the yellow fleshed beets, because its fine flesh never becomes woody and its roots grow so well out of the ground that the crop is easily harvested. An enormous cropper.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c. Not postpaid, 5 lbs., \$1.40; 10 lbs., \$2.75.

GOLDEN TANKARD.

(Cut No. 3.)

Considered indispensable by many dairy farmers. They state that they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Golden Tankard is of a rich, deep yellow throughout. Early, hardy and a heavy cropper; on account of its shape the roots can be left standing close in rows.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 40c. Not postpaid, 5 lbs., \$1.35; 10 lbs., \$2.50.

YELLOW OVOID.

(Cut No. 5.)

Similar to the Yellow Globe, but grows to a much larger size, and more of a half-long shape. Yields an enormous crop. One of the most desirable stock feeding Mangels.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb. 30c. Not postpaid, 5 lbs., \$1.25; 10 lbs., \$2.00.

DAIRYMEN SHOULD KNOW THAT OATS ARE ONE OF THE RICHEST AND BEST GRAINS FOR MILCH COWS. SEE PAGE 46.

BROCCOLI

Broccoli is very much like Cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produces fine heads from late in the fall until early spring, according to time plants are set out. It is a very profitable crop, and is now being planted extensively. Culture same as for Cauliflower.

PS ST. VALENTINE

The Finest of All Broccoli.

This grand new strain introduced by us is a sure header of immense size, finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Pkt., 15c.; ¼ oz., 75c.; 1 oz., \$2.50.

EARLY PURPLE CAPE.

A popular sort; hardy; heads well. The heads are large, of a brownish tint and excellent flavor.

Pkt., 5c.; oz., 35c.; 2 oz., 65c.; ¼ lb., \$1.15.

LARGE WHITE FRENCH.

A valuable variety, with large, white heads, firm and of good flavor.

Pkt., 5c.; oz., 40c.; 2 oz., 75c.; ¼ lb., \$1.25.

MASTERS
Plant
Setter.
Page 104.



ST. VALENTINE BROCCOLI.

BRUSSELS SPROUTS

The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalk, numerous little sprouts, which resemble very small cabbages, one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. They should be treated in all respects like winter cabbage or kale.

DWARF IMPROVED.

A carefully grown strain, very hardy, and giving compact, round sprouts of large size and good quality.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

CORN SALAD

FETTICUS, OR LAMB'S LETTUCE.

A refreshing salad, used extensively in winter and spring as a substitute for lettuce. It is often cooked like spinach. Sow in drills, one foot apart, in the spring or fall. On the approach of cold weather cover over with straw or coarse litter.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



BRUSSELS SPROUTS.

CHERVIL

CURLED.

This plant is used for flavoring soups and salads, and has a strong perfume.

Pkt., 5c.; oz., 15c.; ¼ lb., 30c.

CRESS

CURLED, OR PEPPER GRASS.

This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early, but repeated sowings are necessary to secure a succession. Keep off insects by dusting with Pyrethrum Powder.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 50c.

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, and should be planted wherever a suitable place can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams, and the plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots.

Pkt., 5c.; oz., 35c.; ¼ lb., \$1.00.

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.; ¼ lb., 30c.

CHIVES

For Vegetable Plant List, see page 82.



WATER CRESS

25c worth of seed

FREE with every \$1.00 worth in packets and ounces

SEE OUR

PREMIUM OFFER

INSIDE BACK COVER

CABBAGE

CULTURE—The requisites for complete success are: First—Good seed. There is no other vegetable where the seed has so much influence on the quality of the product, and gardeners should always use the best procurable. Second—Rich, well prepared ground. Third—Frequent and thorough cultivation. A heavy, moist and rich loam is most suitable, which should be highly manured and worked deeply. Cabbage is universally grown, and specific directions regarding the time and method of planting applicable to all localities cannot be given. In general, the early sorts should be sown very early in hot beds, hardened off by gradually exposing them to night air, and as early as the ground is in good condition transplanted, setting 18 to 36 inches apart, according to size of variety.

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. Shade and water the late sowings in dry weather to get them up. It is important that the plants should not be crowded in the seed bed, or they will run up weak and slender, and be likely to make long stems.

PORTLAND SEED CO.'S

◆ PS FIRST CROP

The Ideal Early Cabbage.

The earliest of all pointed varieties and an ideal sort for the private or market gardener, as it takes but little room, and produces fine, solid heads ten days ahead of any other cabbage. We advise all our customers to try this new variety for we believe it is a sterling novelty of the greatest value. (See cut.)

Pkt., 10c.; oz., 25c.; ¼ lb., 75c.



P. S. CO.'S FIRST CROP (from Photograph).

◆ PS EARLY JERSEY WAKEFIELD

The favorite Early Cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting.

Grown more extensively for market than any other early cabbage. Is always of good size, very solid, and has but few outside leaves; a reliable header and always gives good satisfaction.

Pkt., 5c.; oz., 25c.; 2 oz., 40c.; ¼ lb., 75c.; ½ lb., \$1.25; lb., \$2.00

◆ PS EXTRA EARLY EXPRESS

Produces medium-sized, pointed heads, in 80 to 85 days from sowing of seed.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 55c.; lb., \$1.75.

◆ PS EARLY YORK

Small, but very early; very popular sort. Can be planted close together.

Pkt., 5c.; oz., 15c.; 2 oz., 25c.; ¼ lb., 45c.; lb., \$1.50.

EARLY WINNIGSTADT

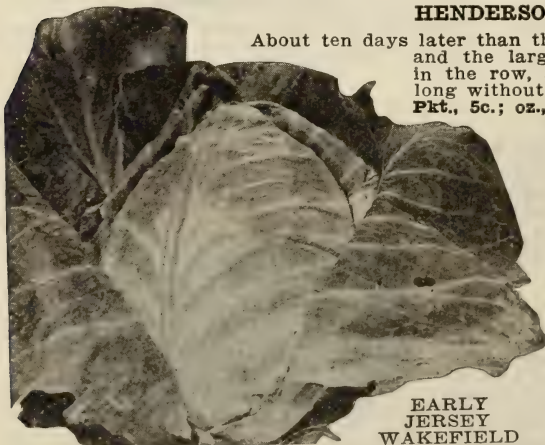
A desirable variety, having conical, solid heads; a sure header under almost any conditions, and keeps better than most early varieties. Fine appearance and of excellent quality.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$1.75.

HENDERSON'S EARLY SUMMER.

About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row, as the outer leaves are small. It remains long without bursting; is firm and of the best quality.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 65c.; lb., \$2.00.



EARLY
JERSEY
WAKEFIELD
(True Type).

EARLY SPRING

The Earliest Flat-Headed Variety.

A wonderfully compact plant, with few outer leaves, so that a great number of fine, solid heads can be produced on an acre. Although it does not come to full maturity as early as Jersey Wakefield, it becomes solid enough for use about as early, and is by far the best early sort for those markets that demand a large round or flat cabbage. The plant is vigorous, with short stem. The heads are oval and very large for the size of the plant.

Pkt., 5c.; oz., 25c.; ¼ lb., 65c.; lb., \$2.00.

BUG DEATH—For Cabbage Worms—NON-POISONOUS EFFECTIVE

CABBAGE—Continued

WELL-KNOWN POPULAR AND EARLY VARIETIES.

EARLY DWARF FLAT DUTCH

These three heads grown from our "Diamond Quality" Seed were awarded First Prize at the Multnomah County Fair.

Early Dwarf Flat Dutch. Grows low on the stem; a sure header; firm, fine-grained, tender and excellent.

Pkt., 5c.; oz., 20c.; 2 oz., 30c.; ¼ lb., 50c.; lb., \$1.60.

Early Drumhead. Heads slightly flattened; do not crack; keep well.

Pkt., 5c.; oz., 20c.; 2 oz., 30c.; ¼ lb., 50c.; lb., \$1.60.

Surehead. Sure to head; compact; medium to large.

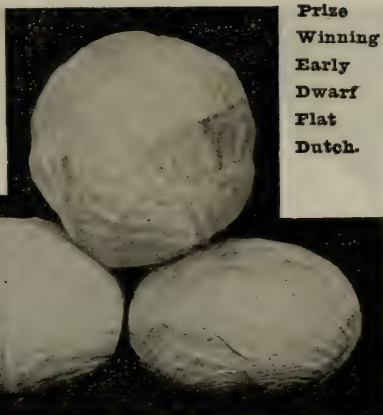
Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb. 60c.; lb., \$1.75.

Succession, or All Seasons. Heads large, slightly flattened; grow low on the stem.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb. 60c.; lb., \$1.75.

Charleston, or Large Wakefield. Large and a little later than the Early Jersey Wakefield.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb. 60c.; lb., \$1.75.



Prize
Winning
Early
Dwarf
Flat
Dutch.



LATE VARIETIES

PREMIUM LATE FLAT DUTCH

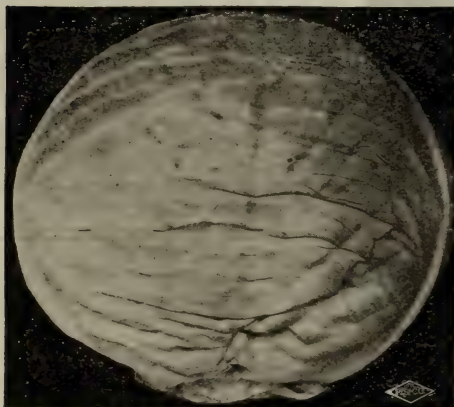
This is superior to any other late cabbage in cultivation, when large areas are planted for shipping. It possesses all the good qualities of the Late Flat Dutch, and is a sure header.

Pkt., 5c.; oz., 20c.; ¼ lb., 55c.; lb., \$1.60.

AUTUMN KING or WORLD BEATER

A sure header, very solid, fine-grained and tender. It grows quicker than any other large cabbage and will produce more to the acre. Color, dark green, with a slight bronze or brownish tinge to the outer leaves. The heads are remarkably thick through, and will attain a great weight. Has a short stem and grows near the ground.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.



TRUE TYPE DANISH BALL HEAD.
(Note the symmetrical form.)

DANISH BALL HEAD or HOLLANDER

This is one of the hardiest cabbages in cultivation and endures both frost and drouth that would destroy other varieties.

Plants rather long-stemmed, but compact; leaves very smooth, but thick; head, of medium size, round and very solid, being the hardest heading cabbage we know of, and of the very best quality. Matures quite late, keeps well, and is considered by many the best cabbage to hold over for spring markets.

Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

WELL-KNOWN AND POPULAR LATE VARIETIES.

	Pkt.	Oz.	2 oz.	¼ lb.	Lb.
Premium Late Drumhead. Has no superior in any respect for family and market purposes, either for medium, early or late crop.....	5c.	20c.	35c.	55c.	\$1.75
Mammoth Rock Red. Used for pickling. The heads are very fine and remarkably sure heading.....	5c.	20c.	35c.	55c.	\$1.75
Drumhead Savoy. Large, compact head; tender and excellent; rich flavor	5c.	20c.	35c.	55c.	\$1.75

CABBAGE PLANTS

From November 1 to following August we aim to have on hand large quantities of Cabbage Plants. See page 82.

GET A MASTERS PLANT SETTER. One man can set and water 10,000 plants a day. See page 104.

For Cauliflower Plants
see page 82.

CAULIFLOWER



PORTLAND SEED CO.'S MT. HOOD SNOWBALL.

CULTURE — The Cauliflower succeeds well in any soil where cabbage will grow. But best results are obtained in rich soil with an abundance of water. By sowing early varieties in a hot bed in February or March, or later in a cold frame, fine heads can be obtained quite early. For a later supply sow seed in a prepared bed in May, choosing a cool, moist place. When large enough, transplant, making the rows about two and a half feet apart and eighteen inches between the plants. In dry seasons the crop must be watered.

P. S. CO.'S MT. HOOD EARLY SNOWBALL

OUR OWN SPECIAL STRAIN.
"MT. HOOD" EARLY SNOWBALL.

The seed that produces those handsome large white solid heads that bring big profits to the gardener. We offer our "Mt. Hood" Cauliflower seed in sealed packets only, under our own label, it having been carefully selected and grown for us by one of the very few expert Cauliflower growers, and is the best strain of Early Snowball obtainable. We especially recommend "Mt. Hood" Snowball for either early or late planting.

Price, Pkt., 25c.; $\frac{1}{2}$ oz., \$1.75;
oz., \$3.00.

WARNING.

Don't Buy cheap strains of Cauliflower seed. They will surely disappoint you and may cause a serious loss. If you grow for market, or only for your own use, buy the BEST Our "Diamond Quality" select strains. They will produce the large, solid, white heads that can only be obtained from the selected seeds. Liberal applications of Nitrate of Soda and Kanit, in Cauliflower culture are of great service.

SELECTED EXTRA EARLY DWARF ERFURT

Remarkable for reliability in heading. Very dwarf, with solid, pure white heads of superior quality. If planted the first of March, heads nine to twelve inches in diameter will be ready early in June.

Pkt., 10c.; $\frac{1}{4}$ oz., 65c.; oz., \$2.00.

EARLY ERFURT

Ordinary strain.

Pkt., 5c.; oz., 85c.; $\frac{1}{4}$ lb., \$3.00.

AUTUMN GIANT

The heads are white, large, compact and thoroughly protected by foliage.

Pkt., 5c.; oz., 60c.; 2 oz., \$1.00; $\frac{1}{4}$ lb., \$1.75.

EARLY SNOWBALL

Ordinary strain. This is the regular grade of Early Snowball that is generally offered, and while it will not give as good results as "Mt. Hood," can be depended upon to produce a good crop.

Pkt., 5c.; oz., \$1.35; $\frac{1}{4}$ lb., \$4.50.

LARGE ALGIERS

A valuable late sort, sure to head, of the best quality and very popular with market gardeners everywhere. Plant large, but of upright growth, the leaves protecting the heads so that they will endure, uninjured, a frost that would ruin other sorts. One of the very best of the late varieties.

Pkt., 5c.; oz., 80c.; 2 oz., \$1.50; $\frac{1}{4}$ lb., \$2.50.

EVERY SEED CAME.

Parkland, Wash., Feb. 18, 1909.

Gentlemen: I had very fine heads of Cauliflower last summer and fall; every seed came of the ordinary strain, so I want some again. Very respectfully,

MRS. JOHN DOERSAM.

Junction City, Ore., Jan. 28, 1909.

Gentlemen: I received the Early Cabbage Seed from you last year, and can say that they were the best I ever planted. Yours truly,

MRS. J. A. HERBERT.

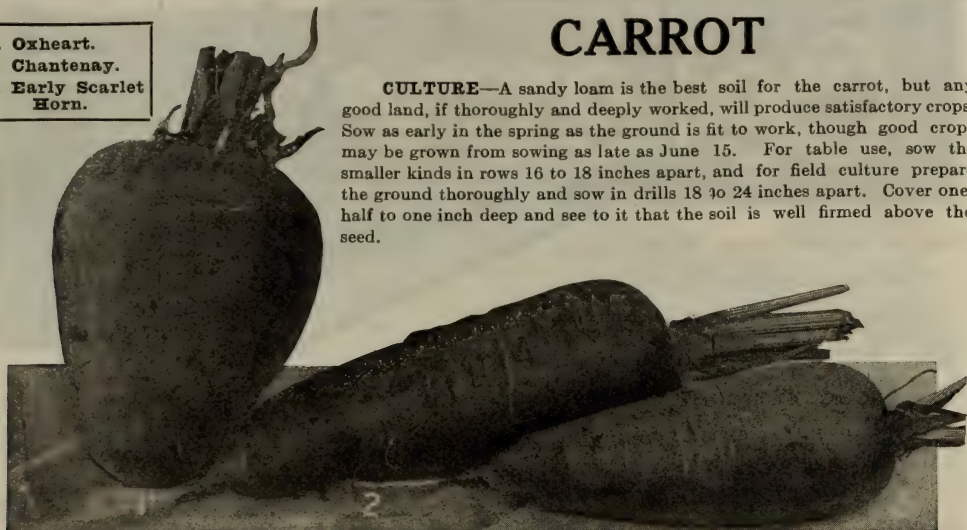
CLEAN AND BRIGHT.

Mill City, Ore., March 22, 1909.

Gentlemen: The seeds, etc., came, and most are planted, and expect a big yield. I never saw cleaner, brighter looking seeds. Cabbage and Cauliflower will be large enough to transplant in a couple of days.

Very truly yours, F. M. BLOOM.

1. Oxheart.
2. Chantenay.
3. Early Scarlet Horn.



CARROT

CULTURE—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that the soil is well firmed above the seed.

EARLIEST SHORT HORN, OR FRENCH

The earliest variety in cultivation, and best suited for forcing. Roots, reddish brown, globular and about 2 inches in diameter; should be used before full grown.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

EARLY SCARLET HORN

The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

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. Although this is a medium early sort, it furnishes roots of usable size as early as any; is a heavy cropper, and is undoubtedly one of the best for both the market and private garden, while its great productiveness makes it very desirable as a field sort.

GOOD AND PRODUCTIVE STOCK CARROTS YELLOW GIANT

PORTLAND SEED CO.'S

This new Carrot originated at the Sydney, Australia, Experimental Station, and has proved itself to be the earliest and most productive stock carrot yet produced. It is a half long variety, with an immense broad shoulder. The Carrot penetrates less than one-half the depth into the ground, which saves about one-half the expense of harvesting the crop. The color is a bright yellow, and is perfection itself for giving the proper color to butter. Every dairyman who wants a big crop of carrots of the right quality and easy of culture should plant our Yellow Giant.

IMPROVED SHORT WHITE.

Ranks as a field carrot, owing to its enormous productiveness and the ease with which it can be harvested. Roots half long, smooth, very heavy at the shoulder, but tapering regularly to the point; color, light green at the crown, white below; flesh, rich, white, solid, crisp and of excellent flavor.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

DANVER'S HALF LONG

Grown largely on account of its productiveness and adaptability to all classes of soil. Tops, medium sized, coarsely divided. The smooth, handsome roots are of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender; deep orange in color. Although the roots of this variety are short, they produce as large bulk as the longer field sorts, and are more easily harvested.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 85c.

OXHEART

A thick carrot, five or six inches long and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor.

ST. VALERY

A popular French Carrot of a deep, rich orange red color, with very straight roots, broad at the top and tapering abruptly near the point. Average length 10 to 12 inches; foliage small. The table quality is excellent and the fact that it yields heavily in light soils, makes it useful as a stock Carrot. We consider it a valuable variety.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

LARGE WHITE BELGIAN.

Extensively grown for stock feeding; very productive. Grows so much above ground that the entire crop can be pulled by hand.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

YELLOW BELGIAN.

Large root; yellow flesh; good keeper for late feeding.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 50c.

PORTLAND SEED CO.'S IMPROVED LONG ORANGE.

Popular for farm use on deep, mellow soil. Our stock is an improvement obtained by years of careful selection of the best formed and deepest colored roots, which grow to a large size, some specimens averaging twelve inches in length. Enormous crops can be grown under fair culture; one of the best varieties for feeding stock.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

Prices on Carrots are postpaid. 5 lbs. or more of one kind at 5c. per lb. less than single lb. Ask for prices on larger quantities by freight or express.

Celery

WHITE PLUME (From Photo).

FOR PLANTS SEE PAGE 82.

CULTURE—Sow the seeds early, in a hot-bed or cold frame. When three inches high, transplant, setting them four inches apart. When grown six inches, and fine, stocky plants, set in richly manured, deep soil, in rows three and a half feet apart and about nine inches from plant to plant. Water, if dry weather follows transplanting. During the next two months all the attention that is required is to keep down the weeds. Afterward, earth up a little, and continue doing so at intervals until only the tops of the leaves are visible late in the autumn. Never hoe up the earth when plants are wet. One ounce of seed produces about six thousand plants.

SNOW WHITE —NEW

The Handsomest
White Celery.

This new celery is a pure white, self-blanching variety, the result of years of careful selection and improvement. It is without a rival in purity of color. In vigor of growth, ease of blanching, size, richness of flavor, crispness and purity, it is ideal. Our engraving gives some idea of the beauty of this variety. Single stalks sometimes weigh 2½ pounds each. It grows solid on all kinds of soil and keeps better than many standard varieties; medium early.

Pkt., 10c.; oz., 35c.; ¼ lb., \$1.00.

WINTER QUEEN—NEW

This is without doubt the most valuable variety of celery for winter and spring use ever introduced. Has double the amount of heart of any known celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and having a delicious nutty flavor.

Stored for winter or spring use, it is an excellent keeper, and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor.

Pkt., 10c.; oz., 35c.; 2 oz., 65c.; ¼ lb., \$1.00.

We can supply celery and other vegetable plants in any quantity. See page 82.



SNOW WHITE.



WHITE PLUME

The Leading White Celery.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of its inner leaves and heart are white, so that by closing the stalks either by 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.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

GOLDEN YELLOW SELF-BLANCHING

This is no doubt the best celery for early spring market use. Plants of a yellowish green color when young, but as they mature the inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier.

Pkt., 5c.; oz., 35c.; ¼ lb., \$1.00.

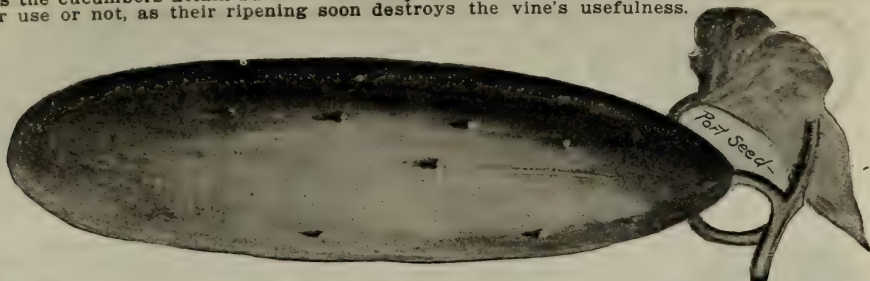
WELL-KNOWN AND POPULAR SORTS.

Pkt. Oz. ¼ Lb. Lb.

Large White				
Solid, of vigorous growth, white, crisp, tender; fine, nutty flavor	5c.	20c.	60c.	\$1.75
Giant Pascal				
Largest variety grown; of fine, nutty flavor; very easily blanched	5c.	20c.	60c.	1.75
Golden Heart, or Golden Dwarf				
Solid; of fine, nutty flavor; excellent	5c.	15c.	45c.	1.50
Celery Seed. For flavoring				
		10c.	15c.	.35

CUCUMBERS

CULTURE—Cucumbers need a warm, rich soil, and should not be planted in open ground until the weather is settled, as otherwise they will not thrive. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. As fast as the cucumbers attain suitable size they should be taken from the vine, whether required for use or not, as their ripening soon destroys the vine's usefulness.



PS P. S. CO.'S IDEAL WHITE SPINE.

Without exception the most uniform and symmetrical White Spine Cucumber, being long, smooth, and of a beautiful bright green color; crisp, tender, and of excellent flavor; very early and a heavy yielder.

Pkt., 10c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

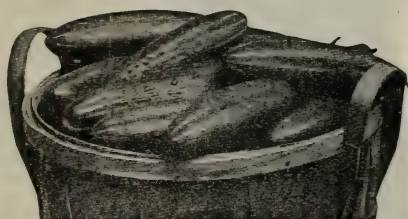
"THE DAVIS PERFECT" CUCUMBER.

As its name implies, the "Davis Perfect" is the ideal Cucumber, being of perfect form, large size and of the finest color; is crisp, delicious and almost seedless.

The "Davis Perfect" is as handsome, grown outside, as any hothouse Cucumber. Mr. Davis is the originator of the Davis Wax Bean, and the Grand Rapids Forcing Lettuce, and we believe his Cucumber will prove equally as valuable. Be sure to include it in your order.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.; lb., \$2.00.

No. 5 FOR CUCUMBERS—SEE PAGE 51



THE "DAVIS PERFECT."

BEST LONG GREEN

The leading large variety. Fruit from ten to twelve inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer the "Best Strain" that will grow long and uniform in shape.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.35.

BOSTON PICKLING OR GREEN PROLIFIC

Color, bright green, and a great producer. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality; but it is for producing medium sized pickles that this variety is so highly esteemed.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.25.

SHORT GREEN OR EARLY FRAME.

An excellent sort for both table use and pickling. Fruit straight, small at each end, bright green, with crisp, tender flesh. Comes into use a little later than the Early Cluster and keeps green a long time.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 30c.; lb., \$1.00.

EARLY RUSSIAN.

Earliest and hardest. Very vigorous and productive. Fruit three to four inches long, thick, oval, pointed at each end, and covered with fine, small spines.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

PS EARLY CLUSTER.

Vine vigorous, producing the bulk of the crop near the root and in clusters. Fruit short, with uniformly thick end, dark green, but paler at blossom end. A very productive sort. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

TELEGRAPH.

A standard forcing variety, very popular with gardeners. Fruit fourteen to sixteen inches long, of very fine quality. A sure and heavy cropper.

Pkt., 25c.

PEERLESS, OR EARLY WHITE SPINE.

One of the best sorts for table use, fruiting early and abundantly. Fruit uniformly straight and handsome; light green, with a few white spines.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

CUMBERLAND PICKLING

The vines are hardy, strong, and fruit very freely. The straight young fruits possess the distinctly roughened surface so much desired for small pickles. The large fruits average nine to ten inches in length, two and a half inches in diameter, with full rounded ends, and are of good quality for slicing.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 50c.; lb., \$1.50.

GHERKIN FOR PICKLING.

A very small, oval, prickly variety, quite distinct from all others.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

JAPANESE CLIMBING.

A useful variety for growing on a trellis or wire. The cucumbers are long, of a dark green color, white flesh, crisp, and of a good flavor.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 60c.

Sweet Corn

DON'T plant
until the
ground is
warm.

DON'T
PLANT
too deep.



GOLDEN WEST

The Sweetest, Richest Corn Ever Grown.

Our Golden West still maintains its position as the sweetest, richest, best yielding, Sweet Corn ever grown, nothing having ever been produced that will compare with it in any way. Golden West is extremely hardy, can be planted earlier than other varieties, and, being of dwarf habit, can be planted closer than other sorts. It is the very best Corn for market or home gardens, where earliness and quality are considered. The color is a rich, creamy yellow, deepening to golden as it matures, and the quality is so fine that you must try it to appreciate how good Corn can be.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

OREGON EVERGREEN

After careful growing tests we offer **Oregon Evergreen** as the finest main crop Sweet Corn because of its many superior advantages over other sorts, as follows:

First—The flavor and sweetness cannot be excelled.

Second—The extreme whiteness of the large ears make it very beautiful and valuable for canning.

Third—It is larger and the stalks produce more ears than any other variety.

Fourth and Last—It has a very heavy husk over the grains, protecting them from insects and keeping the ears fresh a long time after cutting.

Oregon Evergreen is a hardy, vigorous grower, and is the ideal Corn for market gardeners. We want every one to give this Corn a trial.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.



PEEP O'DAY

Ten Days Earlier Than Any Other—Sweet, Early, Productive.

For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short Western summers.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

MAMMOTH EARLY CORY

The stalks are no larger than those of the White Cob Cory, but each stalk furnishes two or more large, fine-shaped ears, which are fit for use before those of most other sorts. The ears are 12-rowed, very symmetrical and handsome. The grain is large, broad, very white and of remarkably good quality.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.40.

EARLY EVERGREEN

The Best Second Early Sweet Corn.

In the New Early Evergreen we have a selection possessing every good quality of Stowell's Evergreen, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

EARLY MINNESOTA

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

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.

STOWELL'S EVERGREEN

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive, and the best late variety for general use.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.00.



OREGON EVERGREEN.

CORN PLANTERS.

Page 104.

EARLY FORDHOOK

This is the largest-eared, extra early, true Sweet Corn, averaging seven inches in length. It is two to three days earlier than the Cory, and has both grains and cobs of pure white coloring. The ears are eight-rowed, with quite small cob and deep grains. While similar in growth, it is greatly superior to the Cory in sweetness and flavor.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

WHITE COB CORY

An improvement on the Red-Cobbed Cory, as well as being equally early. The ears are larger and it has both a white cob and a white grain. A splendid market garden variety, and excellent for the table.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.35.

SWEET CORN—Continued.
WELL-KNOWN AND STANDARD VARIETIES.

All 10c. per packet, postpaid.

	Per lb.	Per 10 lbs.
Adams' Extra Early. Not sugar corn; small ears for early use.....	10c.	\$0.90
Black Mexican. Black grains, sweet and delicious; fine for home use.....	15c.	1.25
Country Gentleman. The sweetest and most tender of all Sweet Corns.....	15c.	1.15
Extra Early Cory (Red Cob). One of the earliest sweet varieties; when ripe, grains are pink.....	15c.	1.20
Mammoth Sweet. Very large, white grain; early and productive.....	15c.	1.20

⚡ Pound prices on Corn do not include postage; add 10c. extra per pound if wanted by mail.



THERE is no longer any doubt as to Corn being grown successfully in the Northwest; the only trouble has been to get the right varieties. Careful tests have proven the following to be adaptable to our Coast climate, and Field Corn is now recognized as one of the leading crops of the Northwest. As a fodder crop it cannot be excelled, and cut green and packed in silos it makes a valuable green feed for milch cows.

The two ears illustrated on this page are from photographs of prize winning Corn grown in Oregon and Washington. They are perfectly matured and will compare favorably with the same varieties grown in the "Corn Belt."

PORTLAND SEED COMPANY'S PREMIUM YELLOW DENT.

For eight consecutive seasons Premium Yellow Dent has been awarded the first prize at the Spokane Interstate Fair, which is a guarantee of its superior qualities and adaptability to our climate. Premium Yellow Dent is a Western grown Corn, with large, broad kernels and big ears; matures early, and yields large crops, either as matured ears or green fodder. If you have never had success growing Field Corn, try **P. S. Co.'s Premium Yellow Dent.** It will surprise and please you.

1 lb., 10c.; 10 lbs., 85c.

MINNESOTA KING (Dent).

Recommended by the Agricultural College as the best variety for Western Oregon and Washington. Smallest cob and largest grain. The ears are uniformly well filled out, and it will make more shelled corn to a given bulk of ears than any other variety. It is a beautiful golden yellow and a good yielder.

1 lb., 10c.; 10 lbs., 60c.

PRIDE OF THE NORTH, or YELLOW DENT.

Recommended, after repeated tests, by the Agricultural College, as the best for Eastern Oregon, Washington and Idaho. A quick growing dent variety, thriving well where the summers are not very long. The kernels are of a beautiful golden color.

1 lb., 10c.; 10 lbs., 50c.

WISCONSIN WHITE DENT.

Wisconsin White Dent is a large, handsome White Dent, extremely early and matures perfectly. The ear illustrated above was grown from our seed and was awarded the Blue Ribbon at the Multnomah County Fair. The best White Dent Corn for Oregon and Washington.

1 lb., 10c.; 10 lbs., 50c.

AUSTRALIAN WHITE FLINT.

A growing test of three seasons has demonstrated the adaptability of this valuable variety to Northwestern conditions. It is earlier than the well known "Eight-Row Canada," and is to be preferred on account of its color, productiveness and very early ripening.

1 lb., 10c.; 10 lbs., 50c.



PREMIUM YELLOW DENT.

CHAMPION WHITE PEARL.

A large, white, late dent variety; very popular with our dairymen on account of the great amount of green feed it makes.

1 lb., 10c.; 10 lbs., 50c.

WELL-KNOWN AND STANDARD VARIETIES.

	Per lb.	Per 10 lbs.
Early Canada (Flint). An eight-rowed Yellow Flint Corn; early and very productive.....	10c.	\$0.50
King Phillip. An early Red Corn; well acclimated and well known.....	10c.	.50
Leaming (Early). Corn yellow; grain small; weighty; productive.....	10c.	.50
Early White Flint. Productive, early and of beautiful appearance.....	10c.	.50
Fodder Sweet Corn. Mixture for soiling and green fodder.....	10c.	.80
White Rice. Best variety of popping corn.....	10c.	.75

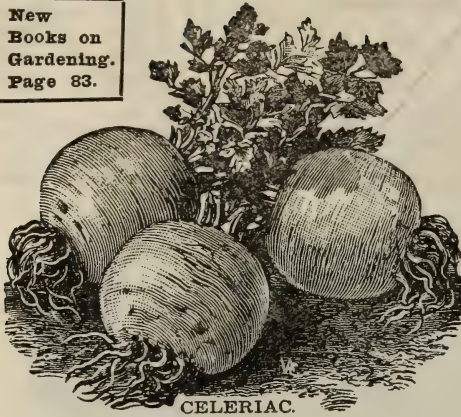
All sorts of Field Corn, 10c. per packet; prices per 100 lbs. on request.

**CELERIAC OR TURNIP-ROOTED
CELERY****LARGE SMOOTH PRAGUE.**

An improved form of turnip-rooted Celery; round, smooth, with very few side roots. This is the largest variety and one of the very best.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

New
Books on
Gardening.
Page 83.



CELERIAC.

CHICORY

Extensively used to adulterate coffee and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice and dry by artificial heat. The blanched leaves are used by some for salad.

LARGE ROOTED, or COFFEE.

The best kind.

Pkt. 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

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.

GREEN CURLED.

Standard sort for fall and winter. **Pkt., 5c.; oz., 15c.; ¼ lb., 40c.**

WHITE CURLED.

A beautiful variety, with curled, mossy leaves; for early use.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

BROAD LEAVED BATAVIAN (Escarolle).

Has broad, thick leaves, which form a large, loose head.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.



ENDIVE

EGG PLANT

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.

EARLY LONG PURPLE.

The earliest and hardiest; very productive; fruit from 6 to 10 inches long.

Pkt., 6c.; oz., 30c.; ¼ lb., 75c.

NEW YORK IMPROVED, LARGE PURPLE.

The leading market variety. Large, round, dark, excellent, and the most productive.

Pkt., 5c.; oz., 35c.; ¼ lb., \$1.00.

BLACK PEKIN.

Oval round, of medium size, very dark, glossy and handsome.

Pkt., 5c.; oz., 30c.; ¼ lb., 80c.



NEW YORK IMPROVED

GARLIC

Used same as onions. Sets, per lb., 15c.; postpaid, 25c.

HORSE RADISH ROOTS

For prices, see Plants and Roots, page 82.

KOHL RABI

Hardy and of easy culture. Grown from plants the same as cabbage. The Kohl Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of both. The edible part is a turnip-shaped bulb formed by the swelling of the stem. Kohl Rabi is far superior to cabbage or turnips in the delicacy of its flavor, and is a splendid addition to every garden. It should be eaten before growth ceases.

EARLY WHITE VIENNA.

Very early; bulb white; best table variety. **Pkt., 5c.; oz., 20c.; ¼ lb., 60c.**

EARLY PURPLE VIENNA.

Same as above, except in color, which is purple.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.



KOHL RABI.

KALE

Kale, or Borecole, is a kind of cabbage that 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.

P. S. CO.'S EMERALD ISLE. Finest Kale in the World.

This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains; very hardy, of medium height, and very vigorous, throwing out new shoots as fast as the leaves are used, and will furnish excellent greens all winter. The closely curled, handsome leaves are most attractive and of fine flavor. A fine exhibition plant. Pkt., 10c.; oz., 25c.; ¼ lb., 75c.

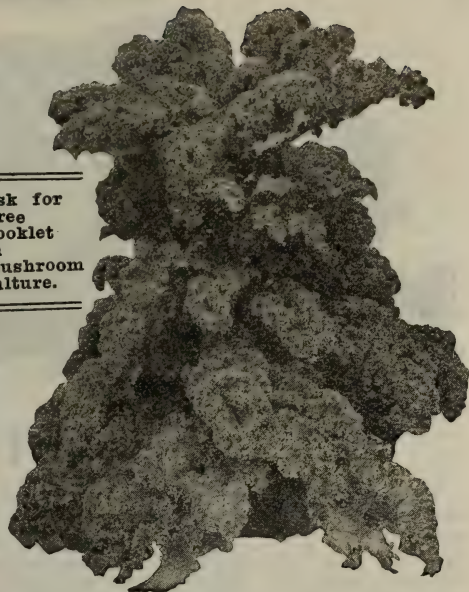
TALL GREEN CURLED SCOTCH.

Grows about two feet high; leaves dark green, curled and wrinkled; very hardy and is improved by a light frost. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.

THOUSAND HEADED.

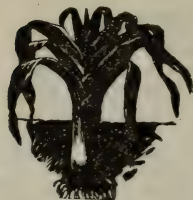
See Field Seeds, page 43.

Ask for
Free
Booklet
on
Mushroom
Culture.



EMERALD ISLE (From Photograph).

Half Dwarf Moss Curled. Medium sized leaves, nicely curled.....	Pkt. 5c.	Oz. 15c.	¼ Lb. 40c.
Dwarf Green Curled. Leaves beautifully curled and bright green.....	5c.	10c.	30c.



LEEK

The Leek belongs to the onion family. Prized for soups. Cultivation similar to that of onions, but hill up about the neck to blanch it.

LARGE ROUEN, or AMERICAN FLAG.

A large, favorite American sort. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

LARGE ROUEN

MUSTARD

Used alone as "greens," or with cress as salad. Sow any time in the spring, in rows, and thin out as necessary.

SOUTHERN GIANT CURLED. We offer a fine strain of the true curled leaf. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

WHITE ENGLISH. Leaves mild, tender when young seeds yellow. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 35c.

MUSHROOM SPAWN

With intelligent care and good spawn, Mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in sheds, where the temperature can be kept from 50 to 60 degrees through the winter. Our free pamphlet gives general instruction.

LAMBERT'S PURE CULTURE.

A new kind of spawn, without a doubt the best; much superior to the common English. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Price, per brick, 25c.; postpaid, 35c.; by express, not prepaid, 5 bricks, \$1.00.



A PRACTICAL TEST.

Portland Seed Co.

Custer, Wash., Oct. 26, 1909.

Dear Sirs: I got some Spawn from you some time ago. Planted it September 13, and there are small Mushrooms as large as peas. The Spawn I got from Boston was planted September 1, and there isn't a sign of anything where I planted it. Now let me know at once if you can let me have 100 lbs. of Lambert's Pure Culture, and will replant this bed.

Yours truly,

T. H. NACE.



LETTUCE

LETTUCE is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as Lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the spring and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the fall or with cooler growing weather would develop perfectly. At a temperature of 40 degrees or lower lettuce will not thrive. At 65 degrees and upward it has a tendency to run up and not head properly. For outside planting sow the seed in shallow drills from one to two ounces to the 100 yards. An ounce will produce 3,000 plants. Four pounds should plant an acre. Lettuce requires forty to sixty days to mature from time of planting.

P. S. CO.'S "DIAMOND EARLY"

Earliest, largest, most solid, and surest heading of the early head varieties. The fine, large heads are tightly folded, having few outer leaves, which are of a light green color, the inner ones being blanched to a beautiful buttery yellow.

"**Diamond Early**" is the ideal lettuce for early heads or successive planting, and its rich flavor and quality is unsurpassed. We want you to plant "**Diamond Early**" and tell us what you think of it.

Pkt., 15c; ½ oz., 30c.; oz., 50c.; ¼ lb., \$1.50.

ALL SEASONS

A valuable new "Butter Head" Lettuce; the best main crop variety, as its large heads continue to grow for two or three weeks after they are ready to use, and are very slow to seed. The heads are flattened on the top and very broad, often measuring 8 inches across.

"**All Seasons**" is headed up ready for use in less than ten weeks from planting. Color of outer leaves is a bright green, with inner leaves blanched a rich golden yellow; very crisp and of excellent flavor. Be sure to try "**All Seasons**."

Pkt., 10c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.



PORTLAND SEED CO'S NEW CRISPETTE

Our "**New Crispette**" is a beautiful Lettuce, the quality of which is simply perfect. The large, curly leaves, which cover the outside of the solid heads, are of a bright, light green. The unusual solidity of the heads is insured by the large, white, main ribs of the leaves, each of which, curving strongly toward the center, makes it impossible for the leaves to open outward and expose the center, which will always be found crisp, tender, sweet and melting. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always **crisp and tender.** (See cut.)

Pkt., 10c.; oz., 25c.; ¼ lb., 60c.

MAY KING

A grand new Butter Lettuce.

A large growing, smooth leaved, richly flavored sort, which we believe to be the best of all smooth leaved Lettuces. Plant, light green, with round leaves, which form into a very solid, compact, round head; stands a long time without running to seed. Leaves very thick, folded or puckered at the base, inner ones blanch to a rich, golden yellow. **Exceedingly rich, tender and buttery.** Fine for open ground or forcing. For succession plant in spring, then in August and again in September. (See cut.)

Pkt., 10c.; oz., 25c.; ¼ lb., 60c.

SIMPSON'S EARLY CURLED

A leading market variety used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

BLACK SEEDED SIMPSON

Forms a close, compact mass of curly leaves of a yellowish green.

Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

EARLY TENNIS BALL

The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Leaves dark green, thick and crisp. One of the best for growing under cover, and for forcing.

Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.

LARGE DRUMHEAD

One of the largest heading kinds, but the heads are not so solid as the Hanson or Deacon.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

LETTUCE—Continued



Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

HENDERSON'S IMMENSITY

Luxuriant grower, consequently tender, sweet, crisp.

Of the largest size and finest quality, even the outer leaves being tender. Slow to run to seed and maintains that crispness of texture and sweetness of flavor so much desired, and has heat resisting qualities which carry it safely through the hot summer. It is not early, but is absolutely reliable for a late crop at a season when other varieties are hard to procure.

Pkt., 10c.; oz., 20c.; $\frac{1}{4}$ lb., 50c.

BROWN DUTCH

Forms a large, solid head, sweet, tender and of good flavor. Outer leaves are tinged with brown. Very hardy. Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

DEACON

Heads very solid and of excellent flavor, remains in condition for use as long as any variety in cultivation. Plant medium sized, with very few outer leaves, which are deep green and very thick, while the inner ones blanch to a bright yellow and are exceedingly well flavored, crisp and tender. This is certainly one of the best varieties for summer use.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.10.

EARLY PRIZE HEAD

Standard sort; one of the best thin leaved, clustering varieties. The very large leaves are savoyed or crimped, bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. One of the best for the garden, but not good to ship long distances. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 35c.; lb., \$1.00.

GRAND RAPIDS

For Early Forcing.

As a Lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list. 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, light yellowish green leaves, slightly crimped and blistered, rather thin, good flavor, crisp and tender. It will stand shipping better than most curled sorts.



HANSON'S (Showing head cut in two.)

HANSON

The Leading Head Lettuce.

(Improved Hard-Heading Stock.)

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 well.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.25.

WHITE PARIS COS.

A distinct variety, forming oval, upright heads, largest near the top. It is hard, tender and crisp, and does not run to seed so quickly as other Cos varieties.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.15.

MUSKMELON

CULTURE

Plant in hills four to six feet apart each way, after danger of frost is past and ground is warm; enrich with well-rotted manure and plant the seeds just under the surface, not too deep. One ounce to fifty hills; two to three pounds per acre.

Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if it is rich and well drained; in cultivating, hill up by drawing the soil toward the plant. Use Bug Death, lime, slug shot or land plaster for destroying insects.

PS BURRELL GEM

The Perfect Melon for Market or Home Gardens.

Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity. This is the secret of a good shipping melon. If the seeds shake loose easily a melon will quickly decay.

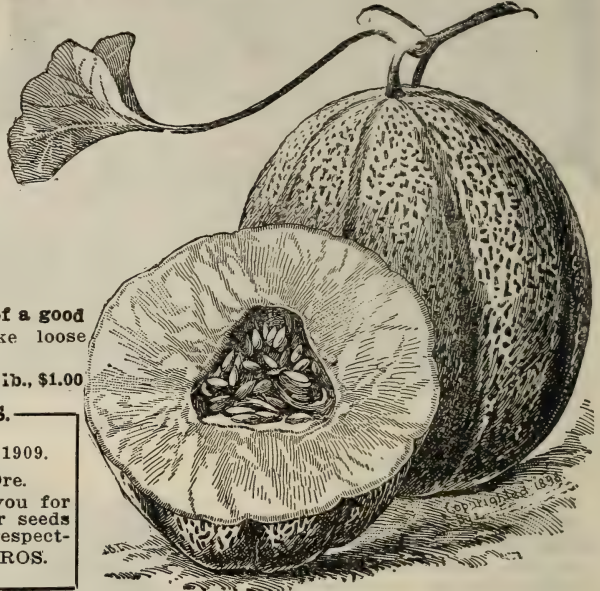
Price, Pkt., 10c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.00

FOUR SUCCESSIVE YEARS.

Redmond, Ore., Jan. 18, 1909.

Portland Seed Company, Portland, Ore.

Dear Sirs: We have dealt with you for four successive years, and find your seeds are perfectly satisfactory. Yours respectfully,
SHERWOOD BROS.



ROCKY FORD OR NETTED GEM

The most popular and best seller among Muskmelons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality. Grown largely in Colorado and shipped in carload lots all over the country. The favorite with market gardeners everywhere.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

PAUL ROSE OR PETOSKEY

Created by a cross between the Netted Gem and Osage; fruit oval, about five inches in diameter, rich orange in color, sweet and highly flavored.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

CASSABA

This is an excellent melon and much sought after. Large, rather oblong; well ribbed; skin thin, and of greenish yellow color; flesh two to three inches thick, delicious and melting. None better; matures late; keeps well.

Pkt., 10c.; oz., 25c.; ¼ lb., 60c.; lb., \$2.00.

SMALL GREEN NUTMEG

A variety ripening early. Flesh green, fine and sweet. Superior for the early market, or family garden, and a favorite for hotels and restaurants.

Pkt. 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

OSAGE OR MILLER'S CREAM

One of the finest flavored melons in cultivation, and highly recommended. Without question the sweetest of all melons. The flesh is of a rich salmon color, very sweet and melting in quality.

Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.

PS EMERALD GEM

The superior quality of Emerald Gem makes it most desirable for home gardens. The flesh is very thick, of a dainty salmon color, and the flavor is the finest and sweetest of all melons. The skin is smooth and a deep emerald green; rind thin; it bears early and is very prolific.

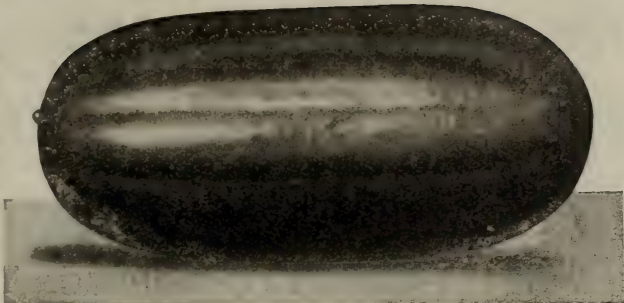
Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

WELL-KNOWN AND POPULAR VARIETIES.

	Pkt.	Oz.	¼ Lb.	Lb.
Jenny Lind. Extra early, flesh green, fine flavor.....	5c.	15c.	40c.	\$1.25
Extra Early Hackensack. Flesh green, delicious, juicy and sweet; medium size.....	5c.	15c.	35c.	1.00
Large Yellow Cantaloupe. Early and productive; flesh salmon color, rich, sweet.....	5c.	15c.	35c.	1.00

WATERMELON

CULTURE—Watermelons thrive best on light, well drained soils, but give good results on any good rich garden soil that is properly drained and cultivated. Plant after the weather is settled and ground warm. Hills should be eight feet apart each way and with well rotted manure thoroughly worked into each hill. One ounce of seed will plant thirty hills; two to three pounds per acre. Thin to two or three plants per hill.



HALBERT HONEY.

PS THE NEW HALBERT HONEY WATERMELON

This superb Melon is a great improvement over the well-known Kleckley Sweets, as it fully equals it in delicious flavor and crispness, is more uniform in outline, darker in color, more vigorous and productive, and will ripen Melons perfectly in the cooler sections where other varieties fail. The average length is eighteen to twenty inches, both ends being blunt and fully rounded out. The rich, dark glossy green, the thin rind and the bright crimson center make the new Halbert Honey the most attractive Watermelon. We want you to try it and tell us what you think of it.

Pkt., 10c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

KLECKLEY'S SWEET, or MONTE CRISTO.

A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh, a beautiful bright rich red; exceedingly sweet and tender.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

FORDHOOK EARLY.

A fine, extra early melon. Fruit of good size; skin dark green; flesh bright and crisp, sweet and good quality; rind thin, but tough. Good shipper.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

SWEET HEART.

This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruit early. Fruit large, oval, very heavy, uniformly mottled dark and very light green; rind thin, but firm; flesh bright red, firm, solid, but very tender, melting and sweet. Fruit retains its good quality for a long time after ripening.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

CUBAN QUEEN.

A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped dark and light green. Melons are wonderfully solid; rind thin. They are enormously productive and ripen early.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

ICE CREAM, or PEERLESS.

A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained; cannot be surpassed in flavor; very prolific.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

PS PORTLAND SEED CO.'S OREGON QUEEN.

Our Oregon Queen has been a success wherever tried, and we believe is the best Watermelon for Oregon, and especially the Willamette Valley. It is hardy, early and very productive. Fruit oval, good size. Color dark green. Flesh bright red, crisp, sweet and of splendid quality. You will be pleased with this excellent melon.

Pkt., 10c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

WELL-KNOWN AND STANDARD VARIETIES.

	Pkt.	Oz.	¼ lb.	Lb.
Dark Icing. Early, round, solid, with thin, dark green skin; of superb quality	5c.	10c.	25c.	75c.
Ferry's Iceberg. A good shipper. Flesh rich, tender and sweet; color dark green	5c.	10c.	20c.	65c.
Gray Monarch, or Long White Icing. Very large; long; crimson flesh	5c.	10c.	20c.	65c.
Florida Favorite. Large and long; rind firm; flesh deep red	5c.	10c.	25c.	75c.
Kentucky Wonder. Oblong; flesh scarlet, crisp, tender, rich	5c.	10c.	25c.	75c.
Phinney's Early. Early, hardy; flesh pink, very sweet, tender and crisp	5c.	10c.	25c.	75c.
Gypsy, or Georgia Rattlesnake. Oblong, dark and striped; bright red flesh	5c.	10c.	20c.	65c.
Citron. (Red or Green Seeded.) Round and handsome; for preserving only	5c.	10c.	25c.	75c.

OKRA OR GUMBO

IMPROVED DWARF GREEN.

Very early, with long, green, slender pods.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

WHITE VELVET.

The pods are smooth or very slightly ribbed, large; remain tender a long time.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 65c.

PURE SEEDS

ONIONS

HIGHEST TESTS

We are large growers of Onion Seeds and Sets, and for years have been specializing on varieties that attain their greatest perfection in Oregon. The illustrations on the opposite page are from photographs, and represent as nearly as possible the true types of our select strains of "Diamond Quality" Onions. We believe our **Oregon Yellow Danvers** to be the finest type of Danver Onion ever offered, and recommend it to all commercial growers.

CULTURE—The Onion thrives best in a rather deep, rich, loamy soil, and unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground should be deeply dug and heavily manured with well rotted manure a season or two previously. Sow as soon as ground can be prepared in the spring.

PORTLAND SEED CO.'S OREGON YELLOW DANVERS

This is the variety generally planted 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 in shape, with small necks, 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 seed can be obtained.
Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$1.75.

PRIZETAKER—THE GENUINE

The Handsomest and Largest Yellow Globe Onion.

Of fine flavor, handsome shape and enormous size. A perfect globe shape, with a bright straw-colored skin; the necks are very small and the onions always ripen up hard.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

PS AUSTRALIAN BROWN

This onion resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin that attracts buyers. It matures early, ripens uniformly, and will keep in good condition longer than any other onion. We offer the true seed, Oregon-grown.

Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

PS WHITE BERMUDA.

A beautiful market variety for fancy trade; color a delicate pinkish straw; flavor very mild.

The finest strains come to us from Tenerife—Canary Islands.

White Bermuda matures in less than six months from time of sowing, and we believe it to be a valuable early onion for our Oregon growers. Try it.

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.60.

YELLOW GLOBE DANVERS

A very handsome, round or globe-shaped variety, of large size, with thin, yellowish skin, white flesh, fine grained, mild, very firm, and the best of keepers. It ripens early.

Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

LARGE RED WETHERSFIELD

A standard variety, one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

PS EXTRA EARLY RED FLAT

The first Red Onion to Ripen.

A medium-sized, flat variety; comes into use nearly two weeks earlier than the Large Red Wethersfield.

Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

PS RED BERMUDA.

Identical with the White except in color, which is a pale, translucent red. This is the ideal early onion wherever the red variety is preferred.

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.60.

WHITE PORTUGAL, or SILVER SKIN.

Skin and flesh pure white; mild flavor and flat shape; grown largely for sets.

Pkt., 5c.; oz., 35c.; ¼ lb., 75c.; lb., \$2.50.

WELL-KNOWN AND POPULAR ONIONS.

	Pkt.	Oz.	¼ lb.	Lb.
Yellow Danvers. Largely planted. Flesh fine grained; mild; white; good keeper	5c.	20c.	50c.	\$1.75
Extra Early Barletta. A small, pure white, mild onion; fine for pickles	5c.	25c.	75c.	2.50
White Globe. Flesh very white, fine rich and sweet; fine keeper	5c.	30c.	1.00	3.00
Giant Eocca. Large, globe-shaped; skin reddish-brown; flesh mild, sweet flavored	5c.	25c.	70c.	2.25
Mammoth Silver King. Very large and attractive; skin white; flesh fine grained and mild	5c.	25c.	70c.	2.25
Queen. If sown thickly, produces small, very firm bulbs, the best of all for pickling; if given more room, matures an excellent onion, that will keep all winter	5c.	25c.	70c.	2.25

ONION SETS

BOTTOM ONION SETS.

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about ½ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown directly from the seed.
Per lb., 25c.

TOP SETS

Produced in clusters. **Per lb., 30c.**

SHALLOTS

Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs. Light brown skin; mild, white flesh.
Per lb., 30c.

One of our seed fields of
OREGON YELLOW DANVERS
ONIONS



No. 1. Yellow Globe Danvers.
 No. 2. Prizetaker.

No. 3. Oregon Yellow Danvers.
 No. 4. White Bermuda.

No. 5. Australian Brown.
 No. 6. Red Wethersfield.

These Onions are grouped from separate photos, and are greatly reduced in size.

"DIAMOND QUALITY"

GARDEN PEAS

GROWN IN
OREGON



1. UNIQUE

2. P. S. Co's FIRST EARLY

3. ALASKA

4. PREMIUM GEM

5. MAGNIFICENT

6. AMERICAN WONDER

7. NOTT'S EXCELSIOR


8. DWARF TELEPHONE

These illustrations are from photos taken in our seed fields, and while reduced in size are perfect reproductions of true types without exaggeration.

SELECT STOCK

GARDEN PEAS

HAND PICKED

 We pay postage on Peas in 10c. packets only. If ordering by mail in larger quantities, add 10c. per pound for postage.

WE grow our own Garden Peas, selecting only the best, and the improved special strains which we offer will be found to be superior in every way.

The illustrations on the opposite page are from photographs of our leading varieties and accurately illustrate the true types.

**THREE EXTRA EARLY PEAS****1910—UNIQUE—1910****OUR NEW EXTRA EARLY DWARF PEA.**

Quality and sweetness unsurpassed; yields enormously; has largest and longest pods of any Extra Early Dwarf Pea, and they are filled clear to the ends with rich, fine flavored Peas, as sweet as sugar. See illustration.—Note how closely they are filled.

Vines are only eight to ten inches high, and peas are ready for table in sixty days from date of planting. Mature evenly, and are all gone in less than ten days—a very valuable point for market gardeners.

"Unique" planted same time as Premium Gem was ready for table when Gems were in bloom.

"Unique" is hardy, vigorous, and the best early dwarf garden Pea ever grown. We urge our customers to give it a trial. Order early and avoid disappointment. Stock is now ready.

Pkt., 20c; lb., 35c.

PORTLAND SEED CO.'S NEW FIRST EARLY

For fall or earliest spring planting. The first early round Pea with the sweet flavor of the wrinkled varieties.

Experts have long been trying to produce a Pea of extreme earliness, with the good qualities of the later ones, and by crossing and careful selection have secured "First Early," which, for extreme earliness and productiveness, far outclasses the well-known "Alaska," and has the same rich, luscious sweetness of the later wrinkled varieties.

"First Early" resembles "Alaska" in habit of growth, the height being 24 to 30 inches, without branching. Pods are produced in great abundance, are very uniform, and contain six peas; mature very quickly and evenly, giving about three pickings. "First Early" is the best early pea for fall planting, or for early succession. Our grower reports, "It fairly jumps out of the ground." Planted the same time as "American Wonder," was ready for table three weeks earlier.

Last season our stock was late in arriving, but we now have a limited quantity of our own growing and can fill all early orders. We want your report on this variety.

(See illustration on opposite page.)

Pkt., 15c; lb., 25c.

ALASKA OR EARLIEST OF ALL

The standard extra early variety.

A smooth, blue pea, of even growth of the vine and extra early maturity. Vines two to three feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall and early spring planting.

Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

EARLY GARDEN PEAS

Standard Varieties

AMERICAN WONDER

One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with well-filled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas; height, 10 to 12 inches.

Pkt., 10c; lb., 20c; 10 lbs., \$1.65.

NOTT'S EXCELSIOR

The most desirable sort for the market gardener, and unexcelled for the home garden. Very hardy. The pods contain from six to nine large peas, which are unusually fine flavored and tender.

Pkt., 10c; lb., 20c; 10 lbs., \$1.65.

EDWARD VII

A Delicious New Early Pea of Great Merit. The pods are well filled and as large as most late peas.

We introduced this grand variety from Europe and its popularity increases each season. Of all the Dwarf Early Peas King Edward VII produces the largest pods of the finest flavored peas in the greatest quantities.

Pods resemble Stratagem in color and size and are remarkably well filled with deliciously flavored peas. Height, 15 inches. Try this grand new pea and we are sure you will be more than pleased.

Pkt., 10c; lb., 20c; 10 lbs., \$1.75.

QUALITY AND CLEANLINESS.

Mist, Ore., April 16, 1909.

Dear Sirs: I want to say I have seen a great many Seed Peas sown, the farmers sowing from five to twenty acres, and the Seed Peas I got from you are the finest and cleanest Seed Peas I ever saw.

Thanking you for the quality and clean seed, I am, respectfully,

T. P. BURT.

PEAS—Continued

PREMIUM GEM.

One of the earliest dwarf varieties, coming in a little later than the American Wonder; grows taller, much more productive and continues in bearing longer. The quality of the pea is very superior. Height, 15 inches.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.65.

PORTLAND SEED CO.'S MAGNIFICENT.

This is another new Pea from Europe, and is just what the name signifies, a magnificent pea. A robust grower, producing in astounding profusion large, handsome, deep green pods closely packed with luscious, tender sweet peas. A grand medium early pea for the home and market garden. Height, two feet. You will not be disappointed in the new variety. **Pkt., 10c.; lb., 20c., 10 lbs., \$1.75.**

GRADUS

This extra early, wrinkled pea bears pods of large size, and combines quality with earliness. It is very hardy; can be planted fully as early as the smooth peas; growth, vigorous and healthy; vines $2\frac{1}{2}$ feet in height; very prolific. The quality and flavor are delicious, and the peas remain tender and sweet for a long time.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

ALL THAT WE CLAIMED.

Kennewick, Wash., June 30, 1909.
Gentlemen: I will say that the Gradus Peas did all you claimed for them, and I had the first Peas ready for market here.
Yours truly,
J. LAMMERTS.

MAIN CROP VARIETIES

P. S. CO.'S PERFECTION

By careful selection of seed stock we have made this superb, wrinkled pea one of the great leaders. There is probably no better late variety now under general cultivation. It attains a height of about $2\frac{1}{2}$ feet, and is esteemed for good quality and productiveness. The pods are long, handsome, and wonderfully well filled, and are produced in great abundance. The peas are of unusually large size and delicious flavor; eight to ten to the pod. Cannot be overpraised as a standard, medium or late sort for the table or canning or for market purposes.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.35.

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, $2\frac{1}{2}$ feet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.40.

IMPROVED DWARF TELEPHONE.

Dwarf Telephone is the famous old Telephone without its long vines; of healthy, stocky growth; very productive; pods large, broad, straight and remarkably well filled with large, sweet peas of delicious flavor; very desirable. Eighteen to twenty inches high.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

IMPROVED STRATAGEM

One of the best of the large podded peas; the pods are of immense size, filled with large, dark green, wrinkled peas of the finest quality; vine medium height, but very stocky, with very broad, light green leaves, and bearing an abundance of large handsome pods.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

CHAMPION OF ENGLAND

Very rich and fine flavored; very productive; wrinkled; height four to five feet.

Pkt., 10c.; lb., 15c.; 10 lbs., \$1.25.

TELEPHONE

▲ **A great favorite with our market gardeners.**

Immensely productive, of the finest quality and excellent, sugary flavor, vines strong; the pods are of large size, filled with large, luscious peas; height, four feet.

Pkt., 10c.; lb., 20c.; 10 lbs., \$1.75.

SUGAR PEAS

Edible Podded Peas.

These peas have broad, fleshy pods that are broken and cooked like string beans. They are sweet and tender and of a luscious flavor, served with butter sauce.

Dwarf Gray Sugar. Pods large, sweet and tender; vines dwarf; gray seeded.

Pkt., 10c.; lb., 25c.

Giant Sugar. Taller and larger than above; gray seeded.

Pkt., 10c.; lb., 25c.

Melting Sugar. Medium height; popular sort; white seeded.

Pkt., 10c.; lb., 30c.

ALWAYS PROVED GOOD.

Ashland, Ore., Mar. 20, 1909.

Gentlemen: My order has been received, and every article, upon examination, proved to be in good condition and of best quality, as all goods previously ordered have proven.
Yours truly,
WM. E. SNYDER.

PUMPKIN

CULTURE—Pumpkins will grow on any good farm land, but their size and quality will depend on the culture and fertility of the soil. Plant early in May, in hills six to eight feet apart. One pound of seed will plant about 300 hills. Care should be taken to keep the different varieties well apart, also away from other vining plants, as they mix and deteriorate very rapidly.

WINTER LUXURY.

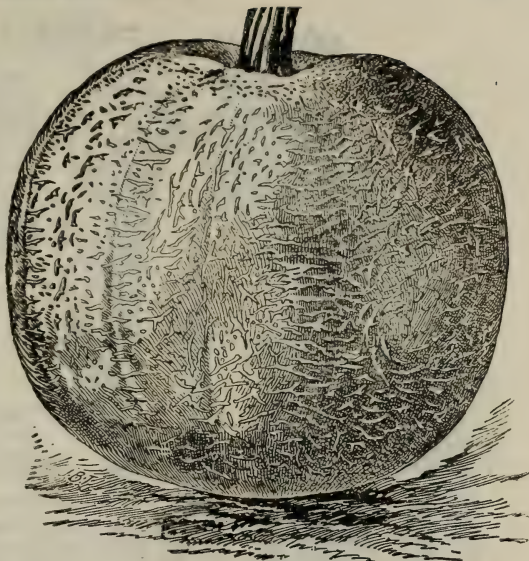
The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden-russet, finely netted; flesh, deep golden, sweet, tender and very thick; none better.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

SWEET, OR SUGAR.

A handsome and productive small pumpkin, ten to twelve inches in diameter; round flattened; skin, orange; flesh, deep yellow, fine grained and very sweet.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.



WINTER LUXURY.

GIANT OF ALL

A New Improved Variety and a Giant Among Mammoths.

This colossal Pumpkin is almost a globe in shape. The skin is of a beautiful, rich golden yellow; flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety. These Pumpkins attain an enormous size and will carry away prizes at your county fairs. See cut below from photograph, Pumpkin on a wash tub.

Large pkt., 15c.; oz. 25c.; ¼ lb., 60c.

TENNESSEE SWEET POTATO.

Pear shaped; flesh thick, cream white, fine grained and of excellent flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.00.

LARGE YELLOW, or CONNECTICUT FIELD.

Large, round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 40c.

MAMMOTH TOURS.

A productive French variety; grows to an enormous size.

Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.

LARGE SWEET CHEESE.

A popular variety. Fruit flattened; skin, mottled light green and yellow. Flesh, yellow, thick, tender; very nutritious and of excellent quality; a most productive variety.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



GIANT OF ALL.

PEPPER

Sow the seeds early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

	Pkt.	Oz.	¼ Lb.	Lb.
Ruby King. Very large, sweet and mild; bright scarlet.....	5c.	30c.	75c.	80c.
Large Bell or Bull Nose. Large, mild, thick fleshed variety. One of the best for stuffed pickles.....	5c.	30c.	75c.	
Golden Dawn. Bright, golden yellow; very productive; entirely free from fiery flavor.....	5c.	30c.	80c.	
Sweet Spanish or Mountain. Of the largest size, bright scarlet. Excellent for pickling and stuffing.....	5c.	30c.	80c.	
Cayenne. Pods long; bright red; very pungent and used very largely with pickles when green.....	5c.	25c.	70c.	
Chill. Pods small and pointed; brilliant scarlet; very pungent when ripe.....	5c.	30c.	80c.	



RUBY KING.

PARSNIP

The Parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible in drills fifteen inches apart on deeply cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots are improved by freezing.

LONG WHITE DUTCH, or SUGAR.

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy; will keep through winter without protection.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

HOLLOW CROWN, or GUERNSEY.

Root white, very tender, with a smooth, clear skin. The variety is easily distinguished by the leaves growing from a depression on the top or crown of the root.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 50c.

BEST ON EARTH.

Westport, Wash., Jan. 21, 1909.

Gentlemen: I enclose herewith my seed order, which please send to me by mail. I always speak a good word for you, as you have always sent me the best seeds, and the most prompt of any one I've ever dealt with, and I know before getting them that my seeds are going to grow.

Your White Icicle Radish is the best on earth at all times of year.

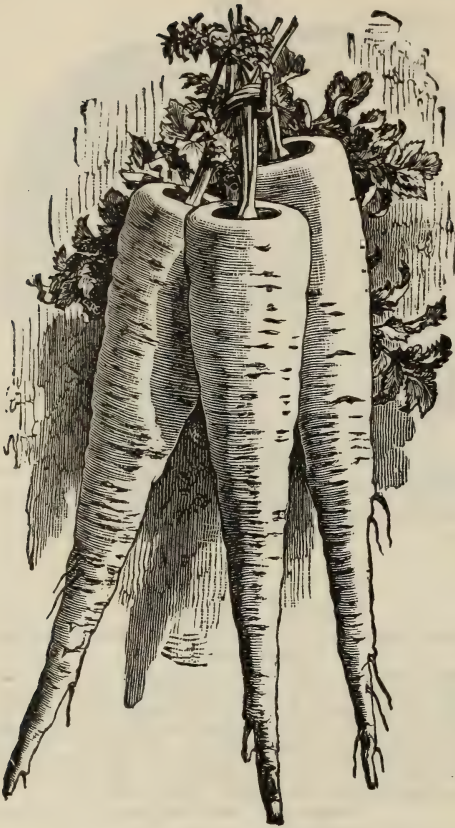
Respectfully,

C. J. BOWER.

Loyalton, Cal., March 18, 1909.

Dear Sirs: I have been getting seed from you for several years, and found them as good as you state they are. Most respectfully,

JOS. P. HOOLEY.



HOLLOW CROWN.

POTATOES FOR SEED

You will find Seed Potatoes described on pages 48 to 50. This year our stock of Seed Potatoes is unusually fine. Be sure you look over our list before you send in your order.

FOR RUTA BAGA—See Page 37

RAPE, DWARF ESSEX

For description and price, see page 44.

RHUBARB OR PIE PLANT

CULTURE—Rhubarb succeeds best in deep, rich, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to six inches apart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure each spring. The stalks should not be plucked until the second year and the plant never allowed to exhaust itself by running to seed.

VICTORIA, or MAMMOTH.

Very large; finest cooking variety.

Pkt., 5c.; oz., 15c.; $\frac{1}{4}$ lb., 45c.; lb., \$1.50.

RHUBARB ROOTS.

From October to June we can always supply one or two-year-old Rhubarb Roots. Customers wanting only a few dozen roots for home gardens will save much valuable time by ordering roots instead of seed. For prices, see page 82.



RHUBARB.

FERTILIZERS ARE NOT AN EXPENSE. THEY ARE A SPLENDID INVESTMENT AND WILL RETURN MANY TIMES THEIR COST.

RADISH

To secure Radishes with crisp, tender flesh, grow them quickly, in rich, loose soil, and gather before reaching full size. Our Radish Seed is strictly of the finest grade, being grown from carefully selected roots. Frequent planting should be made for succession, so that a supply of fresh, tender Radishes in the finest condition may be had at all times.

NEW RADISH.



SPOTTED TRIUMPH

See Front Cover Illustration.

This valuable and unique Radish of the turnip type is of good size and perfect form, very early and of remarkably quick growth; with short tops, its brilliant crimson markings shading to the white tip, give it a very attractive appearance, that makes it valuable as a market variety. Spotted Triumph is crisp, solid and of the finest quality.

Be sure to include it in your order.

Price: Pkt., 10c.; oz., 20c.; ¼ lb., 40c.; lb., \$1.25.

THREE EXCELLENT NEW RADISHES.

One Pkt. Each for 20c.

EARLY CRIMSON GIANT

The Largest Early Scarlet Turnip-Shaped Radish.

A new, early Radish, double the size of any of the early turnip-shaped type, but, notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The shape of the bulb varies from round to almost oval, but the bright, deep crimson color of the skin remains quite constant. Excellent for both forcing and open ground. Pkt., 10c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.00.



WHITE ICICLE

This superb, new Radish is the finest and longest of the very early, pure white varieties. Planted in the spring, is ready for use in twenty to twenty-five days; their long, slender form and pure paper-white skin are most attractive when bunched for market. This Radish is not only crisp and tender when young, but also retains these qualities until the roots attain large size; is excellently adapted for forcing purposes or successive sowing in the open ground, and gives a continuous supply of tender, crisp Radishes for the table or market throughout the season.

Pkt., 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.



WHITE ICICLE.

EARLY SNOWBALL

A grand improvement on the White Box or White Turnip Radish which has been so popular for several years. It is handsome in shape, very early, and has but few leaves, is of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. A good sort for forcing.

Pkt., 10c.; oz., 15c.; ¼ lb., 30c.; lb., 90c.

TYPES OF STANDARD VARIETIES

- No. 1—Early Long Scarlet.
- No. 2—White Strasburg.
- No. 3—Long Scarlet, White Tipped.
- No. 4—Chartier.
- No. 5—French Breakfast.
- No. 6—Early Scarlet Turnip, White Tipped.

EARLY SCARLET TURNIP.

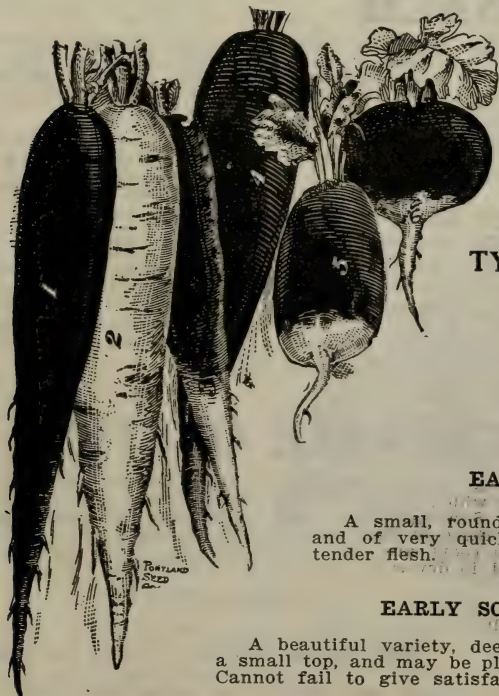
A small, round, red, turnip-shaped Radish with small top and of very quick growth; very early; rich color and crisp, tender flesh.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

EARLY SCARLET TURNIP, WHITE TIPPED.

A beautiful variety, deep scarlet with white tip. Very early. Has a small top, and may be planted closely. Flesh crisp, tender and sweet. Cannot fail to give satisfaction as a forcing Radish.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.



RADISH—Continued.**EARLY WHITE GIANT STUTTART.**

Root large, often four inches in diameter, top-shaped. Skin white; flesh white and crisp, and not becoming strong or pithy until very late. Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

**FRENCH BREAKFAST, or HALF LONG.**

Medium size, quick growth, crisp and tender; lower end and taproot white.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

WHITE STRASBURG.

One of the best of the large summer sorts. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

IMPROVED CHARTIER.

Roots long, tapering, and attaining a very large size. Of rapid growth; remains crisp and tender till fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

EARLY LONG SCARLET, SHORT TOP.

This bright scarlet, small topped sort is uniformly straight, smooth, brittle and crisp, and is a standard and excellent sort for private gardens or market use.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

LONG BRIGHTEST SCARLET, WHITE TIPPED.

This is the brightest and handsomest colored Scarlet Radish known. The lower third of the root is snow-white; very attractive. It is extra early and the flesh is very tender. Valuable for forcing or open ground.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

LADY FINGER, OR WHITE VIENNA.

Of rapid growth and beautiful shape. Skin and flesh snow-white; very juicy, firm, crisp and tender; the finest of Long White Radishes.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

WINTER RADISH**CALIFORNIA MAMMOTH WHITE CHINA.**

This is the largest of all Radishes. Roots grow ten to twelve inches long and are solid, tender and crisp. Keeps well through winter.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 70c.

CHINA ROSE WINTER.

One of the best fall and winter varieties; a favorite with market gardeners; bright rose color; flesh white, firm and of superior quality.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

BLACK SPANISH

Standard Winter Sort. ROUND or LONG
Pkt. 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb. 65c.

SPINACH

SPINACH.

Victoria. Leaves large, tender and of good quality; good market sort.

Prickly Winter. Hardest variety; may be sown in the fall; seed prickly; leaves long, pointed, thick and succulent.

This is an important gardeners' crop, of easy culture. For spring and summer use, sow either broadcast or in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession.

IMPROVED THICK LEAVED

A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color, and quality when cooked. Best for market gardeners.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

FOUR GOOD SORTS ALL AT ONE PRICE

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 15c.; lb., 40c.

Long Standing. An improved variety for general use; slow going to seed.

Savoy Leaved. Very early; of upright growth; leaves pointed. Plant in the autumn for spring use; grows quickly.

Gardeners get special prices; state amount wanted.

SALSIFY OR VEGETABLE OYSTER

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip; in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during winter, or may be stored in dry earth or sand.

MAMMOTH SANDWICH ISLAND.

The leading variety; produces a large crop of straight, smooth roots. Pkt., 5c.; oz., 15c.; 2 oz., 25c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.50.

LARGE WHITE.

An early kind; tender and excellent.

Pkt., 5c.; oz., 20c.; $\frac{1}{4}$ lb., 40c.; lb., \$1.40.

You get \$1.25 worth of seeds for \$1.00 in packets and ounces; see inside back cover.

SQUASH

CULTURE—The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten feet. Three plants are sufficient to a hill.

SUMMER VARIETIES

MAMMOTH SUMMER

☞ CROOKNECK.

Early, prolific, solid, curved neck; skin yellow, thin, hard and warty; flesh tender and of good quality. Twice as large as the ordinary Crookneck and several days earlier. **Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.**

WHITE SUMMER CROOKNECK.

Similar to the Yellow Crookneck, but of a beautiful ivory white and unsurpassed quality. **Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., 90c.**

FORDHOOK.

Oblong in shape, eight to ten inches long, with thin, yellowish skin, slightly ridged. One of the finest Summer Squashes, and if left to ripen makes a splendid winter sort.

Flavor and quality unsurpassed.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.25.

ENGLISH VEGETABLE MARROW — **Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.**

WINTER VARIETIES

BOSTON MARROW.

Skin yellowish, very thin; flesh dry and fine grained; of unsurpassed flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 70c.

SIBLEY, or PIKE'S PEAK.

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained and delicate flavor.

Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

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. One of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal. **Pkt., 5c.; oz., 15c.; ¼ lb., 30c.; lb., \$1.00.**

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.; ¼ lb., 40c.; lb., \$1.25.**

TRUE HUBBARD

The best seller and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Keeps perfectly through the winter.

Pkt., 5c.; oz., 15c.; ¼ lb., 25c.; lb., 85c.



MAMMOTH SQUASH.

Creswell, Ore.,
Feb. 24, 1909.

Gentlemen:

From ½ oz. of
M a m m o t h C h i l l
S q u a s h I r a i s e d
745 lbs. of squash.
One weighed 102
lbs. Yours truly,

Mrs. E. Mitchell.

☞ BUSH SCALLOP SQUASH

MAMMOTH WHITE BUSH SCALLOP.

The best summer sort for the market; very productive and of good size.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

EARLY YELLOW MAMMOTH BUSH SCALLOP.

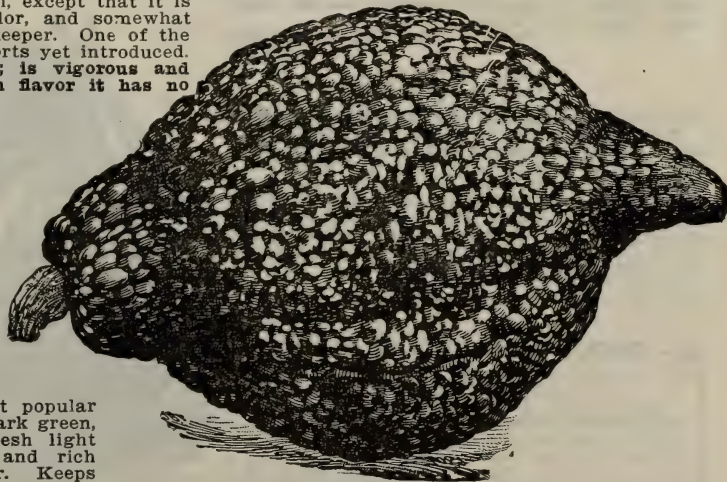
An early, flat, scallop-shaped variety; color yellow; flesh pale yellow and well flavored; very productive.

Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

NEW DELICIOUS

This new fall and winter Squash resembles the old Hubbard; average weight is between five and ten pounds. Seed cavity small; flesh exceedingly thick, compact, fine grained; color, golden orange. The flesh is meaty, granulated, tender, and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies. This variety may be used in the fall, but in winter the quality is at its best.

Pkt., 10c.; oz., 15c.; ¼ lb., 50c.; 1 lb., \$1.50.

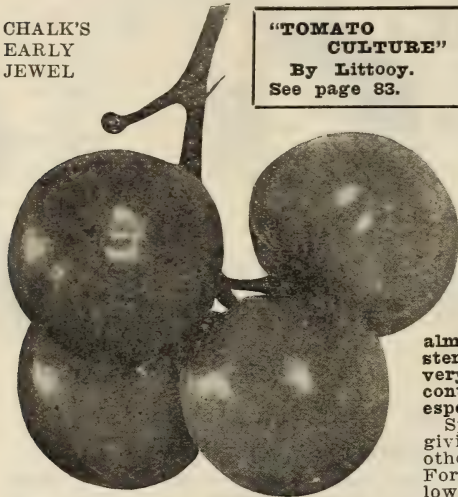


TRUE HUBBARD SQUASH.

TOMATO

CULTURE.—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past.

CHALK'S
EARLY
JEWEL



"TOMATO
CULTURE"
By Littooy.
See page 83.

CHALK'S EARLY JEWEL

Large, bright red, smooth round fruits, very deep and colored evenly up to the stem; very solid, almost seedless and of the finest flavor.

Vines are vigorous, not subject to blight, and yield fully equal to, or better than, Earliana.

We recommend Chalk's Early Jewel as the very best early tomato for either market or home gardens.

Pkt., 10c.; oz., 25c.; ¼ lb., 85c.

SPARK'S EARLIANA

The Earliest Large, Smooth Tomato.

The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. Ripens thoroughly all over, the stem-end coloring up perfectly. Almost seedless and very solid. A most vigorous grower and heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this coast.

Spark's Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds per acre. For this reason the genuine seed can never be sold at a low price.

Pkt. 15c.; oz., 30c.; ¼ lb., \$1.00.

COMET—Forcing

The very best forcing variety and a general favorite with greenhouse growers. Color is a beautiful scarlet; fruits are of good size, very smooth and uniform. We offer a select strain from inside stock.

Pkt. 25c.

EARLY MICHIGAN

An extremely smooth and perfectly shaped tomato; very early; vines strong and vigorous.

Pkt., 5c.; oz., 20c.; ¼ lb., 70c.

FORDHOOK FIRST

A splendid variety, especially adapted for cool, moist or heavy soils. Plants of strong, running growth; fruit, three inches in diameter, perfectly smooth and free from cracks; quite thick through and richly colored deep purple. **Very fleshy and of the finest flavor. Produces smooth, solid, handsome fruit of superior quality, earlier than most other early sorts.**

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.

NEW STONE

The Greatest Canning Tomato in the World.

This variety has obtained great popularity with canners, growers and market gardeners everywhere. Its solidity and carrying qualities are remarkable. Its color a desirable red. In shape, perfectly smooth and thicker from stem to blossom end than most varieties, making it very **handsome and salable.** All speak in highest terms of its beautiful color, its wonderful yielding properties, its unequaled firmness.

Pkt., 5c.; oz., 25c.; ¼ lb., 75c.

—THEY WILL GROW ANY PLACE.

Hanna, Wyo., April 26, 1909.

Gentlemen: Please send me some Tomato Seeds suitable for a northern country, as I intend to send some to my sister in Finland. Your Seeds and Plants did very well in Cuba. Now I will try them in Finland. Yours truly, GEO. P. HEDMAN.

ATLANTIC PRIZE

In point of earliness, this undoubtedly takes the lead. In size, shape and color it compares favorably with later sorts. Color, bright red.

Pkt., 5c.; oz., 20c.; ¼ lb., 70c.

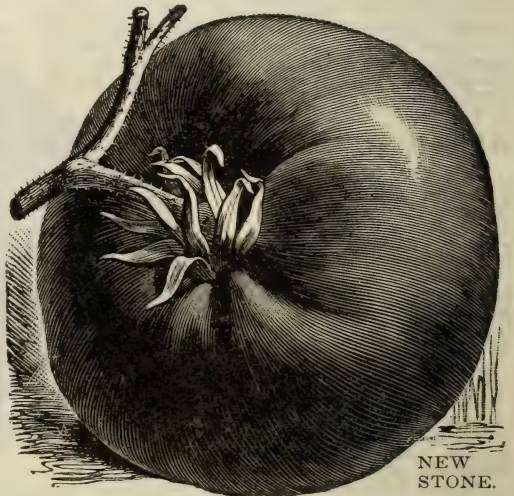
QUARTER CENTURY

A grand, new, dwarf tomato. The fruit is large and heavy and superior in flavor; color, deep red. Fine for home or garden.

Pkt., 5c.; oz., 30c.; ¼ lb., \$1.00.

TOMATO PLANTS

We have, in season, strong, hardy plants. See price list of Vegetable Plants, page 82.



NEW
STONE.

TOMATOES—Continued

LIVINGSTONE'S NEW CORELESS

The most perfect shaped Canning variety ever produced. Large size, globe shaped, full at stem end, bright red, a strong grower and big cropper.

It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large, twelve to fifteen ounces. Always free from green core; ripens all over and through and right up under the stem, all at once. A grand, good slicing variety; the seed cells being surrounded by bright red, heavy, meaty and delicious flesh; which is slightly acid.

Price: pkt., 10c.; oz., 50c.; ¼ lb., \$1.50.

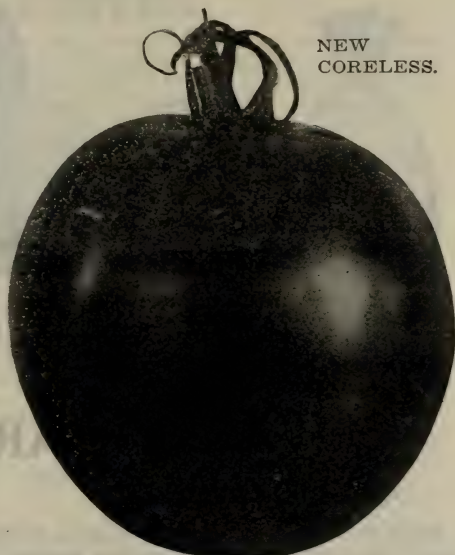
LIVINGSTONE'S PERFECTION.

One of the best; medium early, round, uniformly smooth; vines very productive; fruit deep scarlet, firm and of excellent quality. Vines continue long in bearing.

Pkt., 5c.; oz., 20c.; ¼ lb., 70c.

\$500.00 PER YEAR.

It costs about \$500.00 per year to test the seeds we offer. This testing proves their vitality; it's part of the "Diamond Quality."



WELL-KNOWN STANDARD VARIETIES.

	Pkt.	Oz.	¼ Lb.
Acme. The well-known, standard, bright pink Tomato	5c.	20c.	\$0.60
Dwarf Champion. Dwarf, upright growth; smooth, purple fruit.	5c.	25c.	.80
Golden Queen. This is a first-class large, smooth, pure yellow Tomato.	5c.	25c.	.75
Husk Tomato, or Ground Cherry. Used mostly for preserves	5c.	30c.	1.00
Livingston's Beauty. Large; a good quality; deep red in color.	5c.	20c.	.65
Livingston's Favorite. Excellent for general crop; bears heavily	5c.	20c.	.65
Yellow Pear, Yellow Plum or Red Cherry. Small; shape of fruits named.	5c.	25c.	.75

TOBACCO

Sow the seed thinly in beds, as early as they can be well prepared, transplanting when six inches high to rows four feet apart each way. Cultivate thoroughly.

CONNECTICUT SEED LEAF.

Hardy, and the best adapted to cool localities, and for general use. Pkt., 5c.; oz., 20c.; 2 oz., 35c.; ¼ lb., 60c.; lb., \$2.00.

HAVANA.

Of fine texture and delicate flavor.

Pkt., 5c.; oz., 35c.; ¼ lb., \$1.00.

TREE SEEDS

NURSERYMEN:

We offer only fresh, new crop Seeds. Growers wanting large quantities should give us their orders early. Prices quoted on request. Single lb. prices are by mail, postpaid.

PLUM PITS.

(Prunus Myrabolano.) For nursery stock. Oz., 10c.; ¼ lb., 20c.; lb., 55c.

APPLE SEED.

French Crab. Oz., 10c.; ¼ lb., 25c.; lb., 70c.

CHERRY PITS.

Mazzard. ¼ lb., 15c.; 1 lb., 45c.
Mahaleb. Oz., 10c.; ¼ lb., 25c.; lb., 75c.

PEACH PITS.

For nursery stock. Lb., 20c.; 100 lbs., \$2.50.

QUINCE SEED.

Oz., 20c.; ¼ lb., 60c.; lb., \$2.15.

PEAR SEED—Native.

Oz., 20c.; ¼ lb., 60c.; lb., \$2.00.

French. The best imported for nursery stocks. Oz., 15c.; ¼ lb., 50c.; lb., \$1.75.

Japanese. Oz., 30c.; ¼ lb., \$1.00.

BOX ELDER, OR ASH LEAF MAPLE.

(Negundo Aceroides.)

Oz., 10c.; ¼ lb., 25c.; lb., 85c.

LOCUST.

Yellow or Black.

Oz., 10c.; ¼ lb., 20c.; lb., 60c.

Honey.

Oz., 10c.; ¼ lb., 20c.; lb., 60c.

WALNUT, ENGLISH—Imported.

Named varieties, French grown, prices on application.

FRUIT TREES AND BERRY BUSHES PAGES 90-92

Beautiful Descriptive Catalog of Nursery Stocks, Roses and Bulbs Sent Free on Request.



For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart. As the seed is very fine it should be covered but slightly, except in very dry weather. For fall and winter use the early kinds should be sown during July, August and September.

EARLY GARDEN TURNIPS

PS EARLY WHITE MILAN.

Same as Purple Top Milan, but pure white, sweet and tender; best early market variety.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

EARLY PURPLE TOP MILAN

This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap-leaved; bulb a deep purple above, white underneath; flesh white, firm and delicate.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 80c.

EARLY WHITE FLAT DUTCH.

One of the best and most universally grown. Small, erect top, round flat; flesh white, firm, but very tender and sweet. Of quick growth, it is soon ready for the table and keeps well. (See cut.)

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

STRAP LEAF PURPLE TOP

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. (See cut.)

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

MAIN CROP TURNIPS

WHITE EGG.

Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being 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.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

POMERANIAN WHITE GLOBE.

One of the most productive kinds, and in good, rich soil roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and of strong growth.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

LARGE WHITE NORFOLK.

A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy, and may remain in the ground all winter. Yields a very large crop.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

LARGE AMBER GLOBE.

One of the best for general crop; flesh firm and sweet; grows to a large size; excellent for table use or for feeding stock. Keeps well.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

PURPLE TOP WHITE GLOBE.

A large, globe-shaped variety; purple above the ground. It is handsome and of excellent quality, and recommended both for the family garden and field crop. (See cut.)

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 60c.

ORANGE JELLY.

Or Robertson's Golden Ball.

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. It is extensively used. (See cut.)

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 20c.; lb., 65c.

COWHOEN.

Sometimes called 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. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon, as it is an immense yielder.

Pkt., 5c.; oz., 10c.; $\frac{1}{4}$ lb., 25c.; lb., 75c.

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.

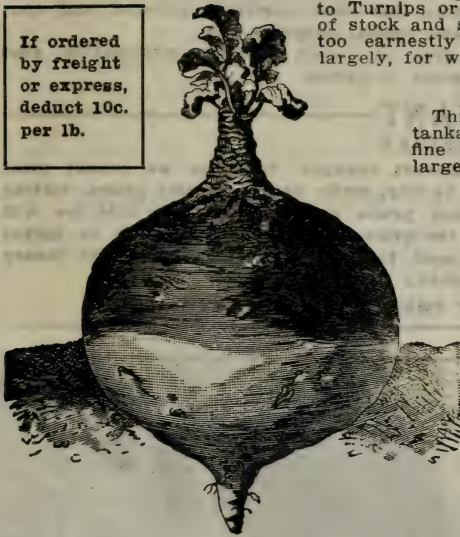
Pkt., 5c.; oz., 10c.; 2 oz., 15c.; $\frac{1}{4}$ lb., 20c. lb., 50c.

TURNIPS—Continued

RUTA BAGA or SWEDE

For feeding stock in fall and winter there is nothing superior to Turnips or Rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

If ordered by freight or express, deduct 10c. per lb.



PURPLE TOP RUTA BAGA.

MONARCH or TANKARD

This is a yellow-fleshed sort, having very large, tankard-shaped roots; flesh very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops. **Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.**

SKIRVING'S

Enormously productive; flesh yellow, solid and sweet. One of the best for field culture. **Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.**

WHITE SWEET RUSSIAN

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.; ¼ lb., 20c.; lb., 60c.**

IMPROVED AMERICAN PURPLE TOP

The leading standard 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.; ¼ lb., 20c.; lb., 60c.**

HERB SEEDS

POT, SWEET AND MEDICINAL

Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial, and when once obtained in the garden may, with a little attention, be preserved for years. Sow the seeds early in the spring in shallow drills, one foot apart. 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. Prices include postage.

All the following Herbs, 5c per packet.

	Oz.	¼ lb.		Oz.	¼ lb.
Anise. Seeds aromatic.....	10c.	25c.	*Lavender. For fragrance.....	20c.	50c.
*Balm. For culinary purposes.....	25c.	65c.	Marjoram. Sweet.....	15c.	50c.
*Basil—Sweet.....	15c.	45c.	*Rosemary. Aromatic oil.....	30c.	
Borage. Leaves for flavoring.....	15c.	40c.	*Rue. Medicinal qualities.....	20c.	50c.
Caraway...For flavoring.....	10c.	25c.	Sage. Much used.....	20c.	45c.
Catnip. (Cat Mint).....	35c.	\$1.00	Saffron.....	20c.	
Coriander. (Aromatic).....	10c.	25c.	Sorrel. Used in salads.....	20c.	
Dill. Used Medicinally.....	10c.	25c.	Summer Savory.....	15c.	35c.
*Fennel. (Sweet).....	10c.	25c.	Tansy. Used in bitters.....	30c.	
Fennegreek. For flavoring.....	10c.		Thyme. (Broad leaved).....	30c.	
*Horehound. Bitter, for tonic.....	20c.		*Wormwood. Medicinal use.....	20c.	
Hyssop. Medicinal qualities.....	25c.	75c.			

HERB SEEDS FOR FLAVORING

ANISE

Anise seed for flavoring. **¼ lb., 15c.; lb., 45c.**

CARAWAY

We keep constantly on hand a large stock of well preserved seed for the use of Drug-gists, Bakers and Confectioners. **¼ lb., 15c.; lb., 35c.; 100 lbs., market price.**

CORIANDER

Coriander seed for flavoring. **¼ lb., 15c.; lb., 35c.; 100 lbs., market price.**

DILL

Dill seed for flavoring. **¼ lb., 20c.; lb., 50c.**

Used to flavor soups, stews and pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

POPPY

Seed used for flavoring **¼ lb., 15c.; lb., 35c.**

CLOVER AND GRASS SEEDS

There are many varieties of grasses and forage plants offered by Eastern seedsmen (often under new names) that will not give profitable crops in our climate, and to avoid disappointment, we refer you to the following list, which has been carefully selected and contains the most desirable varieties for general and special purposes.

A careful reading of the following pages will give you much valuable information, that has required years of observation and experimenting to obtain.

IMPORTANT READ CAREFULLY

Clover, Grass and Field Seeds are subject to market changes, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted; 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 us, or if the difference is very great will notify before shipment.

YOU WILL ALWAYS GET YOUR MONEY'S WORTH.



PORTLAND SEED CO.'S "DIAMOND QUALITY" FANCY MIXED LAWN GRASS SEED

To have a good lawn the soil must be fine and rich, and well leveled. Then the best seed obtainable should be used. Plant any time from September until late spring, depending upon the weather and soil conditions. Making in the seed is advisable, and rolling greatly improves the turf. In watering your lawn soak it deeply and not too often, as light watering every day brings the roots close to the surface, where they quickly burn or dry out. You must not expect to make a fine lawn with cheap seed. The best lawn grass mixture will cost more at first than the poorer substitute, but it will be found much cheaper and more satisfactory in the end. Our "Diamond Quality" Fancy Mixed Grass Seed is prepared from the choicest re-cleaned Grass Seeds that have been carefully selected for their fineness and deep rooting, close growing habits and seasonable qualities, producing an ideal dense, velvety turf of lasting quality that remains green throughout the year.

Growing tests have proven our "Diamond Quality" Lawn Grasses to be superior to any other mixture for our Western soils and climate; it is also absolutely free from chaff and foul seeds, weighing 23 lbs. to the measured bushel. This is a guarantee of clean, plump, seeds, as cheap chaff seed is very light.

Sow 1 lb. to 400 sq. ft., 10 to 15 lbs. to a 50-ft. lot.

Price, per lb., 35c., postpaid; freight or express, per lb., 25c.; 10 lbs., \$2.25.

WRITE US FOR SPECIAL MIXTURES FOR TERRACES, SHADY PLACES, DRY OR WET LAND.

FINE MIXED LAWN GRASS

For use where a temporary lawn must be quickly prepared, and if kept closely cut will be lasting and have a handsome appearance.

This is a good, clean mixture, composed of hardy, compact growing grasses, and for the price is of good value.

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

A SEED SOWER insures an even stand prevents waste **PAYS FOR ITSELF** Page 105

CLOVER AND ALFALFA SEED

Grass Seed Prices subject to change without notice. See note top of Page 38

RED CLOVER

(Trifolium Pratense.)

The standard Clover for all purposes. Hardy and succeeds well on any good soil. Makes superior hay—especially if mixed with Timothy—either for dairy cows or for general use. **Per lb., postpaid, 30c.; 100 lbs., \$16.75; fancy, \$18.00.**

MAMMOTH RED CLOVER

Grows very large and is used almost exclusively for plowing under for manure.

Per lb., postpaid, 30c.; 100 lbs., \$18.50.

WHITE DUTCH CLOVER

(Trifolium Repens.)

A small variety, having a white blossom. Of a vining nature, spreading rapidly. Superior for pasture, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass.

Choice Seed, per lb., postpaid, 35c.; 10 lbs., \$2.10.

Fancy Seed, per lb., postpaid, 40c.; 10 lbs., \$2.60.

CRIMSON OR SCARLET CLOVER

(Trifolium Incarnatum.)

Highly commended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high. It germinates quickly, grows rapidly and stools abundantly. Cut for hay when in full bloom.

Per lb., postpaid, 25c.; 100 lbs., \$13.00.

BOKHARA, SWEET OR HONEY CLOVER

(Mellilotus Alba.)

A rapid growing, white flowered sort; excellent for bees. Sow 10 pounds per acre.

Per lb., postpaid, 40c.; 100 lbs., \$20.00.

THEY WERE "DIAMOND QUALITY."

Blaine, Wash., Nov. 4, 1909.

Gentlemen: Kindly ship our order of November 21st for 12 sacks Red Clover, Fancy, and 2 sacks Alsike Clover, Fancy. We are very much pleased with the report we got from Oregon Agricultural College about these seed. **They both went over 99 per cent pure seed.**

GILDAY & MONTFORT.

A FINE STAND.

Airlie, Ore., Oct. 30, 1909.

Dear Sirs: I was well pleased with the seeds I bought from you the spring of 1908.

The Dryland Alfalfa is a fine stand and well rooted. I always thought it doubtful to get a stand until I tried your seed.

The Carrots and Rutabagas were superior to anything in the valley. Yours, for success,
T. S.

ALFALFA OR LUCERNE CLOVER

(Medicago Sativa.)

The immense cattle and sheep interests of the Western States could not exist if it were not for Alfalfa. It is no doubt one of the best fodder plants in the West. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green and grows as rapidly as ever. 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. Its roots, in seeking moisture, penetrate to incredible depths. The seed should be sown in the spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., postpaid, 35c.; 100 lbs., \$19.00.

DRY LAND ALFALFA

For High, Dry, Hot Land.

This new Dry Land Alfalfa will produce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah. This is especially recommended for the hills and plateaus where irrigation is impossible. It comes from the highest driest alfalfa sections, and is very superior seed.

Per lb., postpaid, 35c.; 100 lbs., \$20.00.

TURKESTAN ALFALFA

Will produce a luxuriant growth in the driest and hottest sections, without irrigation. It is perfectly hardy and will stand extreme cold in winter without harm. It yields a very heavy and rich crop of hay and makes a permanent pasture. We have secured a good stock of the pure, genuine imported seed.

Per lb., postpaid, 35c.; 100 lbs., \$20.00.

FOR WEIGHTS OF SEEDS AND AMOUNTS TO SOW, SEE PAGE 44.

ALSIKE OR SWEDISH CLOVER

(Trifolium Hybridum.)

A perfectly hardy perennial variety which is rapidly growing in popular favor. Excellent for hay and pasture. Valuable for bees. Resists both drouth and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. **Per lb., postpaid, 30c.; 100 lbs., \$17.00; fancy, \$18.00.**

ESPARSETTE, OR SAINFOIN

(Onobrychis Sativa.)

A deep rooting, perennial legume, extensively cultivated in dry, calcareous soils, which are too barren for Clover or Alfalfa. Sow 50 pounds per acre.

Per lb., postpaid, 30c.; 100 lbs., \$14.00.

NITRO-CULTURE; NOTHING LIKE IT FOR CLOVER. SEE PAGE 52.

GRASS SEED

Grass Seed Prices subject to change without Notice. See note on page 38

KENTUCKY BLUE GRASS

(*Poa Pratensis*.)

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures.

Per lb., postpaid, 35c.; per 100 lbs., \$18.00.

BLUE GRASS, CANADA

(*Poa Compressa*.)

Recommended in all pasture mixtures on dry soil; thrives well on clay or hard trodden and poor soil. Sow 28 pounds per acre.

Per lb., postpaid, 30c.; 100 lbs., \$14.00.

TIMOTHY

(*Phleum Pratense*.)

This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 15 to 20 pounds per acre.

Per lb., postpaid, 20c.; 100 lbs., \$7.00.

ENGLISH RYE GRASS

(*Lolium Perenne*.)

A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable for both grazing and hay. Forty pounds per acre.

For Lawns this is used and recommended by many gardeners. If sown thickly it makes a fine lawn, and for large grounds and parks it is very successful.

Per lb., postpaid, 20c.; 100 lbs., \$9.00.

MESQUITE

(*Holcus Lanatus*.)

It is usually sown on virgin soil, without cultivation, after the ground has been burned over. Sow about 35 pounds to the acre chaff seed; hulled, 15 pounds per acre.

In Chaff, per lb., postpaid, 20c.; 100 lbs., \$8.00. **Hulled Seed**, per lb., postpaid, 30c.

BROMUS INERMIS

(Russian Forage Grass—Awnless Brome Grass.)

This Bromus, on account of its strong perennial character, and its unusual drouth-resisting powers, is the best grass

we have for the semi-arid regions of the Northwest. It will stand the longest drouth of all forage plants. Its running roots take a deep and permanent hold upon the land, and it will replace, in a large degree, the fast disappearing Bunch

Grasses of Eastern Oregon and Eastern Washington, where it has done well. 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 a perennial and yields from 4 to 6 tons to the acre. Sow 25 to 30 lbs. per acre, spring or fall. Seed weighs 14 lbs. per bushel.

Per lb., postpaid, 30c.; 100 lbs., \$14.00.



Bromus Inermis.

SPECIAL PASTURE MIXTURES

NO. 1.

A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre.

Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 20c. per lb.; 15 to 50 lbs., 18c. per lb.; 100 lbs., \$17.50.

NO. 3.

An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years.

Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 21c. per lb.; 15 to 50 lbs., 20c. per lb.; 100 lbs., \$19.00.

NO. 4.

Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will please you immensely. Price, postpaid, 30c. per lb. By freight or express, 10 lbs., 21c. per lb.; 15 to 50 lbs., 20c. per lb.; 100 lbs., \$19.00.

NO. 8.

Particularly for arid, alkali lands. This mixture is composed of varieties that have proven to be the best for the soils mentioned. Price, postpaid, 35c. per lb. By freight or express, 10 lbs., 25c. per lb.; 15 to 50 lbs., 23c. per lb.; 100 lbs., \$22.00.

MEADOW FESCUE

(*Festuca Pratensis*.)

Perennial; grows three to four feet high. Roots deep, thus resisting drouth. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pastures, being valuable to mix with other kinds.

Per lb., postpaid, 40c.; 100 lbs., market price.

ORCHARD GRASS

(*Dactylis Glomerata*.)

One of the most valuable of all the cultivated grasses, blooming with Red Clover, and making with it admirable hay. As a pasture grass it is more productive than any other, and does best under close feeding. Sow 28 pounds per acre.

Per lb., postpaid, 30c.; 100 lbs., \$17.50; fancy imported, \$19.00.

RED TOP

(*Agrostis Vulgaris*.)

A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land it is advisable to mix it with Meadow Fescue, Orchard Grass or Alsycle Clover. Sow 28 pounds per acre chaff seed; 14 pounds hulled.

Prime Seed, per lb., postpaid, 10c.; 100 lbs., \$9.50.

Choice Hulled, a very superior grade of Red Top that is free from chaff and light seed.

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

ITALIAN RYE GRASS

(*Lolium Italicum*.)

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or 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. Sow 40 pounds per acre.

Per lb., postpaid, 25c.; 100 lbs., \$9.00.

RHODE ISLAND BENT GRASS

(*Agrostis Canina*.)

Resembles Red Top. Makes a close sod; valuable for permanent pastures and meadows. Twenty-eight pounds per acre. For lawns, use 12 to 15 pounds per 50-foot lot. Gives good results.

Per lb., postpaid, 40c.; 100 lbs., \$25.00.

GRASS SEED—Continued

Grass Seed prices subject to change without notice. See page 38.

CRESTED DOG'S TAIL

(Cynosurus Cristatus.)

A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land.

Per lb., postpaid, 55c.; 10 lbs., \$4.00.

BERMUDA GRASS

(Cynodon Dactylon.)

Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow six pounds per acre.

Per lb., postpaid, 75c.

HARD FESCUE

(Festuca Duriuscula.)

Fine, rather dwarf, justly noted for its drouth-resisting qualities. Valuable as a pasture for sheep. Sow 20 pounds per acre.

Per lb., postpaid, 35c.; 10 lbs., \$2.00.

FLOATING FESCUE

(Festuca Fluitans.)

A perennial with long, creeping roots and preferring a rich, muddy or alluvial soil. Trout and wild ducks are very fond of the seed and tender shoots. Sow 15 to 20 pounds per acre, fall or spring.

Per lb., postpaid, 45c.

SHEEP'S FESCUE

(Festuca Ovina.)

Grows freely in high, dry and open pastures. Its chief merit is for sheep pasture. Thirty-five pounds to the acre.

Per lb., postpaid, 35c.

WATER FESCUE

(Glyceria Fluitans.)

This grass grows naturally in and beside ditches, pools, rivers and marshes. Sow 15 to 20 pounds per acre, fall or spring.

Per lb., postpaid, 45c.

REED CANARY GRASS

(Phalaris Arundinacea.)

Will Grow on the Wettest Land You Have.

A grass that will grow on stiff, wet land, even if the ground is overflowed for a month or six weeks. Makes a good hay if cut early in the season. Sow 10 pounds per acre.

Price, ½ lb., 40c.; lb., 75c., postpaid.

AUSTRALIAN SALT BUSH

A Fine Forage Plant for Arid Soils.

This wonderful forage plant will grow freely in arid and alkali lands that will produce no other vegetation, yielding a marvelously liberal foliage, which is eagerly eaten by all kinds of stock. Single plants grown on the poorest alkali ground have reached a diameter of 16 feet in one season. One pound of seed will plant an acre if evenly scattered over the surface. The seed should be mixed with ten times its weight of sand or ashes to facilitate its distribution. Sow the seed in the fall or spring (winter sowing is not desirable), before a rain, if possible, on well pulverized soil, and cover it lightly (about one-eighth of an inch) with a light harrow or brush. If desired, plants may be grown and transplanted when two or three inches high, six to seven feet apart. If the weather is dry when transplanting supply a little water to each plant.

Pkt., 5c.; oz., 10c.; ¼ lb., 40c.; lb., \$1.25, postpaid.

Special price in quantity.

TALL MEADOW OAT GRASS

(Avena Elatior.)

Often attains a height of 3 to 4 feet by the middle of June. Makes splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Can be fed as a pasture grass, and will generally bear cutting three times. For mixing with Perennial Rye and Alfalfa for sandy soils it is excellent. Sow about 30 to 40 lbs. per acre alone, or half that amount if mixed with the above varieties.

Per lb., postpaid, 35c.; 100 lbs., \$18.00.



Tall Meadow Oat Grass.

GRASSES AND HOW TO GROW THEM.—Shaw. Page 83.

ROUGH-STALKED MEADOW GRASS

(Poa Trivialis.)

A most valuable grass which flourishes in moist, rich soils.

Per lb., postpaid, 55c.; 10 lbs., \$4.00.

FOWL MEADOW

(Poa Serotina.)

It yields well when sown on low, moist land. It can be mowed almost any time from July to October. Sow 25 pounds to the acre.

Per lb., postpaid, 45c.

WESTERN SEEDS BEST.

Canyonville, Ore., Feb. 28, 1909.

Gentlemen: We have found your Seeds to be, first, the best we ever used on the Pacific Coast, and, second, they are second to none for quality, and recommend your seed house to any one wanting No 1 Seeds and Plants. Enclosed find order. Yours respectfully,

T. C. S

SWEET VERNAL

(Anthoxanthum Odoratun.)

Valuable to put in pasture mixtures and lawn grass on account of its earliness and its delightful fragrance when in bloom. Twenty-eight pounds per acre, but this grass is recommended only for use in mixture.

Per lb., postpaid, 35c.; 100 lbs., \$20.00.

CREeping BENT GRASS

(Agrostis Stolonifera.)

Well adapted for sandy pastures, near the coast, and good for pasture on low lands. If sown alone, use 25 pounds per acre. Excellent for lawns. Use 12 to 15 lbs. per 50-foot lot.

Per lb., postpaid, 40c.; 100 lbs., \$25.00.

FIELD AND MISCELLANEOUS FARM SEEDS

Single pound prices include postage. If ordering by freight or express deduct 10c. per pound; 100-pound prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes top page 38. Write for prices on large quantities.

ARTICHOKES

There is an unlimited market for Hogs, and Artichokes are the cheapest and best feed. They never fail. They are also valuable to dairymen, being cheap, and good milk producers.

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known; are remarkable for their fattening properties, great productiveness (over one thousand bushels having been raised on one acre) and ease with which they can be grown. They need not be dug. Turn the hogs into the field, and they will help themselves by rooting. One acre will keep from twenty to

ARTICHOKE TUBERS.



thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are said to be a preventative of cholera and other hog diseases, and are also highly recommended for milch cows, increasing the yield of milk, and at the same time improving their condition. Plant 10 bushels per acre early in the spring.

Note—Tubers on hand from January to May.

Per lb., postpaid, 15c.; 100 lbs., \$2.00.

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 and land, has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

Per lb., postpaid, 15c.; 100 lbs., \$3.00.

WHITE HULLESS OR BALD BARLEY

White Hulless, or 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 fodder, 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.

Per lb., postpaid, 20c.; 10 lbs., 50c.; 100 lbs., \$3.25.

COMMON BARLEY

We always aim to have a nice, clean stock of good Seed Barley on hand at all times.

Per lb., postpaid, 15c.; 100 lbs., market price.

BUCKWHEAT

Common. Per lb., postpaid, 15c.; 100 lbs., \$4.00.

Silver Hull. Probably the most popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavily. An excellent milling variety.

Per lb., postpaid, 20c.; 100 lbs., \$4.25.

Japanese. Seed of this variety is scarce, and we cannot always supply it.

Price: Per lb., postpaid, 20c.; 100 lbs., \$4.50.

CHEAT SEED

Cheat yields a good crop of hay, especially on low or moist soil and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the fall or early spring same as oats and about 100 pounds per acre.

100 lbs., \$3.00.

COW PEAS

Are really small beans of vigorous vining habit and heavy foliage of great nutritious value, yielding five to nine tons of green feed per acre, or can be cut and cured like clover. They are great nitrogen gatherers and one of the best fertilizers when turned under. Sow two bushels per acre.

Whip-Poor-Will. Upright, or bush growth, earliest maturing, easily harvested.

Per lb., postpaid, 20c.; by freight or express, 10 lbs., 80c.; 100 lbs., \$6.25.

Clay. Of vigorous growth. Excellent for ensilage; can be planted in hills with corn.

Per lb., postpaid, 20c.; by freight or express, 10 lbs., 85c.; 100 lbs., \$6.25.

MILLETS

Sow in April, May or June, 12 to 15 pounds for seed or 20 to 30 pounds for hay per acre.

GERMAN, or GOLDEN.

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.

Per lb., postpaid, 20c.; 100 lbs., \$3.75.

HUNGARIAN.

A dwarf annual Millet. It is finer than the Common or German Millets, but produces a closer stand and yields almost as much per acre as the taller varieties. Superior for hay.

Per lb., postpaid, 20c.; 100 lbs., \$4.00.

NEW SIBERIAN.

New and wonderfully productive. Extremely hardy and about two weeks earlier than the German Millet, growing about four feet in height.

Per lb., postpaid, 20c.; 100 lbs., \$4.00.



MILLET.

COMMON.

A variety growing from three to four feet high, having rather broad blades and strong stalks.

Per lb., postpaid, 20c.; 100 lbs., \$3.50.

FIELD AND MISCELLANEOUS FARM SEEDS—Continued

☛ Read the note, top of page 38, regarding prices of Field Seeds.

COW KALE

(Or Thousand Headed Kale.)

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen; endorsed by Agricultural Colleges and Government Stations.

Postpaid, 1 oz., 10c.; ¼ lb., 20c.; 1 lb., 60c.

“DOING FINE.”

Templeton, Ore., Aug. 31, 1909.

Gentlemen: All the seed was O. K. The Cow Kale, Rutabaga and Beets are doing fine, and Artichokes are 8 feet high. We are very well pleased. Very truly yours,
C. B.

KAFFIR CORN

An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high; upright stalk, with numerous large leaves. Greatly relished by cattle and horses. The seed crop is also heavy, sometimes yielding 60 bushels to the acre. It does best sown in drills three feet apart, using six to eight pounds of seed per acre.

Per lb., postpaid, 25c.; 10 lbs., 60c.; 100 lbs., \$4.25.

LENTILS

Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are largely used for soups. The leafy stalks make good forage.

Per lb., postpaid, 25c.; 10 lbs., \$1.; 100 lbs., \$9.

SEED WHEAT

When ready to buy any variety of Seed Wheat, write us for quotation on quantity wanted or send in your order. We will give full value at lowest market price.

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, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN.

A leading kind; seed almost white; a heavy cropper.

Per lb., postpaid, 15c.; 100 lbs., \$4.25.

BLUE PRUSSIAN.

Very much like the above, except in color. This variety is largely sold for soup peas.

Per lb., postpaid, 15c.; 100 lbs., \$4.25.

SWISS.

A three-cornered pea; excellent for cooking purposes. Vines small. One peculiarity of these peas is that they are never infested with bugs.

Per lb., postpaid, 20c.; 10 lbs., 70c.

RYE, FOR SEED

Planted extensively in both spring and fall.

Per lb., postpaid, 15c.; 100 lbs., \$2.50.

VETCHES OR TARES (COMMON OR SPRING)
(Vicia Sativa.)

Oregon's Greatest Forage Plant.

One of the best forage plants that can be grown on the Pacific Coast. Often called Fall Vetches. This is a species of the pea, and is 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 cut and cured for hay. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Weight, 70 pounds per bushel. Sow in the fall or early spring.

Per lb., postpaid, 20c.; 100 lbs., \$5.00.

VETCHES (SAND OR WINTER)

(Vicia Villosa.)

This variety thrives on poor, arid, sandy soils. It is sown either in the fall or spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of three or four feet, and can be cut twice; first, as soon as the bloom appears, and afterward for seed. The plant is perfectly hardy and makes a very nutritious food.

Per lb., postpaid, 25c.; 100 lbs., \$10.00.

NOTE—In ordering Vetches, be careful to state plainly which variety you want, as they are both sown in the fall or winter in Oregon.

WILD RICE

(Zizania Aquatica.)

For Planting in Duck Ponds

And around hunting grounds to furnish food for wild fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds and small streams and grows very rapidly in one to four feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish. Fresh seed supplied in season; write for information.

Per lb., postpaid, 60c.



VETCHES.

FIELD AND MISCELLANEOUS FARM SEEDS—Continued

Prices on Farm Seeds subject to change. See note, page 38.

RAPE, DWARF ESSEX

True Pure Seed.

One of the best forage plants, producing immense quantities of green feed when grass and other crops are dried up. Highly recommended by Prof. Shaw and other eminent authorities. Has yielded ten tons of green forage per acre with a food value double that of green clover. Excellent pasture for all stock, and fine green feed for chickens. Thrives on all soils and is ready for use in six to eight weeks from time of sowing. Also valuable for plowing under. Sow same as turnips from May until September or sow with grain. Use four pounds per acre in drills, eight pounds broadcast.

Price, postpaid, lb., 25c.; 10 lbs., \$1.10; 100 lbs., \$9.50.

OUR FERTILIZERS

Contain generous supplies of Vital Plant Foods, and are quick in action, safe and reliable. Pages 51-52.

SPELTZ

A combination of hay and grain in one. It has a hull somewhat like barley, but produces double kernels in each. A comparatively new and profitable crop, yielding 50 to 100 bushels of grain or four to six tons good hay per acre. Thrives well on poor soil, and dry weather seems not to affect it. After threshing the straw makes good feed.

Sow in spring at rate of 75 to 100 pounds per acre. It is advisable to roll or chop the grain before feeding.

Price, postpaid, 15c. per lb.; 100 lbs., \$2.90.

SUGAR CANE OR SORGHUM

Early Amber, a valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre. When fed down while young it makes a rapid second growth.

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

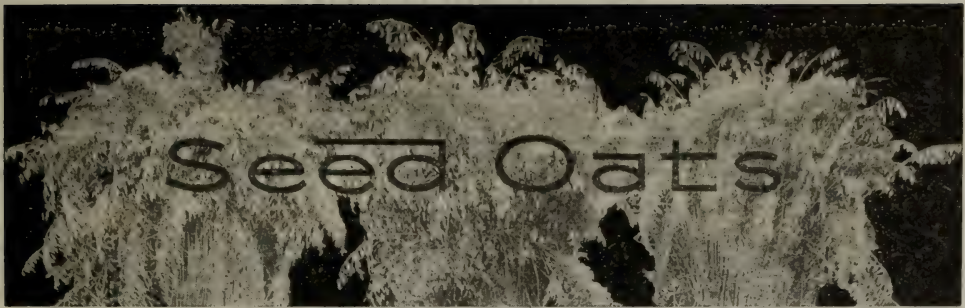
SUNFLOWER

Mammoth Russian. The largest and most productive variety. It makes one of the very best of foods for poultry; a great egg producer.

Per ¼ lb., 10c.; lb., postpaid, 25c.; 10 lbs., 90c.

REFERENCE TABLES

Weight of Various Articles.	Quantity of Seed to produce a given number of plants and sow an acre.	
	Quantity per acre.	Quantity per acre.
Barley 48 lbs.	Artichoke, 1 oz. to 500 plants. 6 oz.	Horseradish Roots, 10,000 to 15,000
Beans 60 lbs.	Asparagus, 1 oz. to 800 plants. 1 lb.	Kale, 1 oz. to 2,000 plants. . . . 4 oz.
Buckwheat 48 lbs.	Asparagus Roots. .5,000 to 10,000	Kaffir Corn, in drills. . . . 6 to 8 lbs.
Blue Grass—	Barley 2 to 2½ bu.	Kohl Rabi, 1 oz. to 2,000 plants
Kentucky 14 lbs.	Beans, dwarf, 1 lb. to 100 ft.	..... 4 oz.
English 24 lbs.	of drill 1 bu.	Leek, 1 oz. to 100 ft. of drill. 4 lbs.
Canary Seed 60 lbs.	Pole, 1 lb. to 100 hills. . . . ½ bu.	Lettuce, 1 oz. to 150 ft. drill. 3 lbs.
Cheat 34 lbs.	Beet, Garden, 1 oz. to 100 ft.	Millet—For Seed 20 lbs.
Clover Seed 60 lbs.	drill 7 lbs.	For Hay 30 lbs.
Corn, Shelled. . . . 56 lbs.	Mangel, 1 oz. to 75 ft. of	Melon, Musk, 2 oz. to 100 hills
Charcoal 22 lbs.	drill 5 lbs.	..... 2 to 3 lbs.
Flax Seed 56 lbs.	Broccoli, 1 oz. to 2,000 plants. 4 oz.	Water, 4 oz. to 100 hills. .
Grass Seeds (unless otherwise stated) 14 lbs.	Brussels Sprouts, 1 oz. to 2,000 plants	..... 3 to 4 lbs.
Hemp Seed 44 lbs.	..... 4 oz.	Oats 2 to 3 bu.
Hungarian 48 lbs.	Broom Corn, in drills. . . . 15 lbs.	Okra, 1 oz. to 100 ft. of drill. 8 lbs.
Lawn Grass 20 lbs.	Buckwheat ½ to 1 bu.	Onion Seed, for sets. 60 to 85 lbs.
Meadow Fescue. . . . 24 lbs.	Cabbage, 1 oz. to 2,000 plants. 4 oz.	1 oz. to 150 ft. drill. 3 to 4 lbs.
Millet 50 lbs.	Carrot, ¼ oz. to 100 ft. drill. 3 lbs.	Onion Sets, 1 qt. to 40 ft. drill
Oats 32 lbs.	Cauliflower, 1 oz. to 3,000 plants	..... 8 bu.
Onion Sets 32 lbs.	..... 3 oz.	Parsnips, 1 oz. to 150 ft. drill. 3 lbs.
Orchard Grass. . . . 14 lbs.	Celery, 1 oz. to 5,000 plants. 4 oz.	Parsley, 1 oz. to 150 ft. drill. 3 lbs.
Peach Pits 48 lbs.	Cheat 2 bu.	Peas, Field 2 bu.
Peas, Smooth. . . . 60 lbs.	Chicory 4 lbs.	Garden, 1 lb. to 100 ft. drill
Peas, Wrinkled. . . . 56 lbs.	Clover, Alsike and White. . . . 8 to 10 lbs.	..... 1 to 2 bu.
Perennial Rye 20 lbs.	Alfalfa 15 to 20 lbs.	Pepper, 1 oz. to 1,000 plants.
Potatoes 60 lbs.	Crimson Trefoil 10 to 15 lbs.	Pumpkin, ½ lb. to 100 hills. .
Rape 60 lbs.	Red 10 to 12 lbs.	..... 3 to 4 lbs.
Rye 56 lbs.	Collards, 1 oz. to 2,000 plants. 4 oz.	Radish, 1 oz. to 100 ft. drill. 10 lbs.
Red Top 14 lbs.	Corn, Pop (shelled). . . . 8 to 10 lbs.	Rape 3 to 5 lbs.
Red Top, Solid	Sweet or Field, hills. 12 to 20 lbs.	Rye 1½ to 2 bu.
Seed 42 lbs.	For soiling, drills. . . . 2 bu.	Salsify, 1 oz. to 100 ft. drill. 6 lbs.
Speltz 40 lbs.	Cress, ¾ oz. to 100 ft. drill. 1 lb.	Speltz 100 lbs.
Timothy 45 lbs.	Cucumber, 1 oz. to 100 hills. .	Spinach, 1 oz. to 100 ft. drill. 8 lbs.
Vetches 70 lbs.	..... 2 to 3 lbs.	Sugar Cane, in drills. . . . 10 lbs.
Wheat 60 lbs.	Egg Plant, 1 oz. to 2,000 plants, . . . 4 oz.	Sunflower 8 lbs
	Endive, ¼ oz. to 100 ft. drill. 4 lbs.	Squash—Summer, 4 oz. to 100 hills
	Flax, broadcast ¾ bu.	..... 3 lbs.
	Grass—Blue, Kentucky. . . . 2 bu.	Winter, 8 oz. to 100 hills. . 4 lbs.
	Meadow Fescue 1 bu.	Tomato, 1 oz. to 2,000 plants. 4 oz.
	Mixed Lawn 5 to 6 bu.	Tobacco, 1 oz. to 4,000 plants. 3 oz.
	Red Top, chaff 2 bu.	Turnip, 1 oz. to 150 ft. of drill
	Red Top, solid seed. 12 to 15 lbs.	..... 2 to 3 lbs.
	Timothy 12 to 15 lbs.	Vetches 1½ to 2 bu.
	Orchard Perennial Rye, Powl	With grain 1 bu.
	Meadow, Wood Meadow. 2 bu.	Wheat 1½ to 2 bu.



THE Oat crop is of first importance to all farmers, dairy, and stockmen, and the present tendency toward fruit culture and small acreage, intensive farming, will necessarily curtail the production, which guarantees that the present firm market will continue indefinitely, as the acreage planted is not keeping pace with the increasing demand.

These conditions make Oats the most profitable grain crop and one that gives sure and quick returns, as some of our new varieties will mature in 100 days from date of planting, or planted in the fall can be harvested in early July, thus giving the land for summer or fall planting.

We offer the following standard varieties, all carefully re-cleaned, select, well matured seed. For our "SHADELAND" and "BLACK BEAUTY" Oats see following pages.

PRICES ON OATS ARE SUBJECT TO MARKET CHANGES. SEE PAGE 38.

GRAY WINTER.

This Oat is planted extensively throughout the Northwest as a fall or winter Oat. Is well and favorably known, being a good yielder, and the Oats are large and plump.

Price, postpaid, 1 lb., 15c.; 4 lbs., 50c.
Frt. or Exp., Bu., 90c.; 100 lbs., \$2.25.

WHITE SEED.

We always try to have a selected re-cleaned stock of No. 1 White Seed Oats, which we can supply at market price. Write for samples and prices on the quantity you require, or send in your order. You will always get full value for money sent.

Price, postpaid, 1 lb., 15c.; 4 lbs., 50c.
Frt. or Exp., Bu., 90c.; 100 lbs., \$2.25.

BLACK RUSSIAN.

A hardy winter tree Oat that will thrive on any well drained soil. Straw medium to large; stands up well, ripens early and yields heavily. Our stock is true and clean.

Price, postpaid, 1 lb., 15c.; 4 lbs., 50c.
Frt. or Exp., Bu., \$1.00; 100 lbs., \$2.50.

SWEDISH RED.

A comparatively new tree Oat from Sweden, having a soft hull and fine soft straw which is ideal for hay. This is the Oat grown so extensively in Northern California and along the Southern Oregon Coast. Sow in fall or winter. Red Oats always bring a good price in the market.

Price, postpaid, 1 lb., 15c.; 4 lbs., 50c.
Frt. or Exp., Bu., \$1.00; 100 lbs., \$2.50.

MORTGAGE LIFTER.

A splendid White Tree Oat, extensively catalogued by eastern houses. They are a fall or winter Oat; very vigorous, early, and yield remarkably well. See report below where over 122 bushels per acre were harvested.

The stock we have is clean, large and plump, but they carry a few Gray Oats that have somehow worked in, and while they do not injure them in the least as far as crop or growth is concerned, yet they cannot be separated and we will have to sell these valuable Oats at a very low price. If you want a fancy, big yielding Oat at the price of common ones, take advantage of this offer. Write for sample and prices on the quantity you need.

Price, postpaid, 1 lb., 15c.; 4 lbs., 50c.
Frt. or Exp., Bu., \$1.00; 100 lbs., \$2.50.

A RECORD CROP.

Mr. H. L. Stephens, a Prominent grower near Coquille, Oregon, writes as follows:
Coquille, Ore., Oct. 18, 1909.

Gentlemen: Please send me one Clipper grain cleaner No. 2 by first boat.

Regarding yield of oats: **The Tree Oats made 122 3-4 bushels per acre; the Shadeland Challenge 135 bushels per acre; the Red Oats we haven't weighed, but they will make over 100 bushels per acre.**

Yours truly,

H. L. STEPHENS.

The Tree Oats referred to were the "Mortgage Lifter."

Mr. Stephens is the first grower to ripen oats and make a shipment from his section. The samples sent us were well matured and of good quality.

ANOTHER REPORT

Templeton, Ore., Aug. 31, 1909.

Gentlemen: I am just cutting the Oats I raised from your seed. **The Oats are first class and we are getting 7 tons to the acre.** We are very well pleased.

CHAS. BRUNER.

FORMALDEHYDE

A Sure Preventive for Smut in Grain.

This has proved to be much better than vitriol, etc., for treating grain to prevent smut. Also potatoes for blight and scab.

It is a clear chemical, resembling water, but it has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

One Reliable Oat Grower Says:

"The way I treated my oats was as follows: I poured about 20 bushels of oats on the barn floor; then I poured one-half pint of the formaldehyde in a five-gallon can of water and sprinkled it over the oats, turning them twice with a scoop shovel and allowed them to remain 12 to 24 hours, then spread them out to dry." Oats thus treated will be perfectly free from smut. **Price, per pint bottle, 50c.** Sent by express or freight only; cannot be mailed.

"SHADELAND" SEED OATS

Our introduction of Shadeland Wonder some years past met with instant recognition. This was followed by Shadeland Challenge, an improved strain of Wonder. Then our new Shadeland Triumph Tree Oat for 1909, which we thought to be the limit of possibilities in a Tree Oat, but after a careful test we have concluded to replace Triumph with its cross fertilized product which is our grand new Oat for 1910, and is a fitting climax to this wonderful strain of Oats, the equal of which we believe has never been known. For this reason we have called this new Oat

"SHADELAND CLIMAX."

This new type of regenerated tree oat was first grown in Oregon in 1908, 5-8 of an acre yielding 75 bu. of plump grain. The seed crop for 1909 was planted March 24th, and notwithstanding the unusually heavy frosts of the late spring and the extremely dry season (there being but one shower of rain from the time of planting until harvested on July 24th) made the remarkable yield of 100 bu. per acre on light hill land.

"Shadeland Climax" is a strong, vigorous grower, stooling remarkably and standing up well. Heads large with immense grains, three in a spikelet. See illustration.

"Shadeland Climax" is a Spring Oat, but we have reason to believe that excellent results can be obtained from fall planting.

One expert says: "Shadeland Climax" can be planted west of the mountains whenever the land is in good tilth.

"Shadeland Climax" as compared with last year's "Triumph" shows a greater resistance to drouth, and a more vigorous growth in severe cold weather; the past season giving unusual opportunities for these observations, as the temperature was lower in the early spring than for many years and the spring and summer the driest.

"Shadeland Climax" was awarded the Blue Ribbon at the Oregon State Fair.

Like most good things, the stock of "Shadeland Climax" is limited, and if you expect to purchase you must send your order in promptly.

Price, postpaid, 1 lb., 25c.; 4 lbs., 80c.
Fr. or Exp., 1 Pk., 75c.; ½ Bu., \$1.25; Bu., \$2.00; 100 lbs., \$5.00.

"SHADELAND" CHALLENGE.

Our wonderful white side "Challenge" Oat 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. See head illustrated on opposite page. Shadeland Challenge ripens in about 100 days from planting if spring sown, and 100 Bu. per acre is not uncommon on ordinary soil. We introduced "Shadeland Challenge" as a spring Oat but careful and conclusive tests have demonstrated that it gives even better results, if possible, from fall planting.

Price, post paid, 1 lb., 20c.; 4 lbs., 60c.; Frt. or Exp., ½ bu., 75c.; bu., \$1.25; 100 lbs., \$3.25.

"Shadeland Oats" exhibited by Mr. C. D. Nairn have taken First Premium at the Oregon State Fair every year since their introduction.

A RECORD FOR SILETZ.

(From spring planting.)

Gentlemen: I planted forty-one acres of "Shadeland Challenge" Oats about the 28th of last March, and had the largest crop of Oats ever threshed in Lincoln County, averaging 125 bushels per acre, and weighing 44 pounds to the measured bushel.

Some of these Oats grew seven feet high, with heads fourteen inches long.

This land has only been cleared fifteen months. "Shadeland Challenge" for me every time.

EMIL T. RADDANT.

"BLACK BEAUTY"

Best yielding, earliest hardy winter tree Oat. Planted late November; cut July 8, fully ripe.

Our "Black Beauty" Oats have given excellent results on cold wet lands, and are without doubt the earliest, most satisfactory winter Oats, growers reporting them as maturing two weeks ahead of other varieties.

"Black Beauty" is an exceptionally good feed Oat, the straw being a little finer than most of the white Oats, and the mammoth, jet black, thin-hulled kernels, coming three in a spikelet, make it an enormous yielder, our seed crop averaging 96 bushels per acre.

A very important advantage is the early maturing of "Black Beauty," which can be cut before the foul seeds are ripe. This will help to destroy many, being particularly effective against the troublesome French Pink.

We especially urge all dairy and stockmen to give this excellent new Oat a trial.

Price, postpaid, 1 lb., 20c.; 4 lbs., 60c. Frt. or Exp., ½ bu., \$1.00; bu., \$1.50; 100 lbs., \$3.50.

WHICH IS YOUR CHOICE?

The difference in the cost of planting and harvesting an acre of Common Seed Oats yielding 20 to 40 bu. per acre, and our "Diamond Quality" regenerated Seed Oats yielding from 80 to 125 bu. per acre is about \$1.50. In other words it costs about as much to plant, care for, and harvest Oats that yield only half a crop as it does to

REAP A REAL HARVEST.

WILLAMETTE VALLEY

(Fall Sowing.)

Gentlemen:

The "Shadeland Challenge" Oats purchased of you were planted about the middle of last October—six acres. They threshed 102 bushels to the acre, machine measure, and I believe they are the heaviest yielders and best general purpose White Side Oat in the Willamette Valley.

You can plant them spring or fall and know that you will get a big crop.

I also planted three acres of your new

"BLACK BEAUTY"

in November. They yielded 96 bushels per acre, are exceedingly strong growers, and excel any Oat I have ever seen on cold wet land. They are also the earliest, maturing two weeks earlier than others, and are exceptionally fine feed Oats, very nutritious. You certainly have been successful in getting good varieties of Oats. Very respectfully, W. J. CROWSTON.

**"SHADELAND
CLIMAX"**

**"SHADELAND
CHALLENGE"**

**"DIAMOND
QUALITY"
SEED OATS
GROWN
IN
OREGON**

"BLACK BEAUTY"

The heads of Climax, Challenge and Black Beauty Oats shown on this page are from reduced photos, showing the habit of growth and number of grains in spikelets. The fields are "Challenge" and "Black Beauty".

“DIAMOND QUALITY”

SEED POTATOES

GROWN IN OREGON



1/2 AVERAGE SIZE

P. S. Co's "PRIDE OF MULTNOMAH"



REDUCED TO 1/4 AVERAGE SIZE.

1 EARLY ROSE

4 EARLY SUNRISE

2 AMERICAN WONDER

5 PRIZETAKER

3 P. S. Co's. EARLIEST OF ALL

6 HUNDRED FOLD

7 NEW VIOLET

J. Patwell

**"DIAMOND
QUALITY"**

SEED POTATOES

**TRUE TYPE
MARKET SIZE**

OUR SPECIALTY.

Our select strains of Seed Potatoes for the Northwest have been carefully bred up by experts who have made a life study of Potato growing. And their care and patient effort has resulted in establishing fixed strains of almost perfect types that cannot be duplicated elsewhere, and we offer a complete assortment of splendid varieties for all purposes.

Stocks this season are indeed perfection for this is a banner Potato year for Oregon, the crop being estimated at 7,350,000 bu., but experience proves that such seasons are generally followed by a short crop the next year, and there are also many reasons why you should prepare to plant a large acreage of our "Diamond Quality" Potatoes for the coming season.

First—The stocks were never better and you should get a fresh start of true type, vigorous tubers that will produce big crops of a uniform, marketable size, for it is a well-known fact that many growers have allowed their stocks to "run out" by years of continuous planting of culls, and nothing will deteriorate more rapidly than Potatoes.

Let us furnish you some fresh true stock, for first-class graded Potatoes will always sell, no matter how full the market. Then, again, our Seed Potatoes were never so cheap as now and you should take advantage of these conditions to get started right.

PRIDE OF MULTNOMAH

Our "Pride of Multnomah," originated near Portland and offered by us for the first time last season, has more than fulfilled our greatest expectations, and the excellent reports from all sections confirm our statement that "Pride of Multnomah" is far in advance of all other main crop varieties as regards yield, size and uniformity, and table quality, being fine grained, of snowy whiteness, and for baking or boiling has no equal.

The illustration on the opposite page is reproduced from a photograph, and shows better than words can express, the shallow eyes and symmetrical distinctive shape which is faithfully maintained, showing it to be a perfectly fixed type. The field shown is one of the seed fields where "Pride of Multnomah" originated. Photo was taken toward the end of the very dry season just passed, but notwithstanding the drouth the vines were vigorous and erect, meeting across the rows, shading the dense mass of fibrous roots and retaining the moisture even in the driest season.

"Pride of Multnomah" is practically blight and disease proof and the best keeper we have ever known. Of 80 varieties selected from the best known sorts, for trial at the Raynham, Massachusetts, trial grounds, "Pride of Multnomah" was one of the three highest scoring, and had no peer as to table quality. Considering the radical change in climate, this was a most remarkable and satisfactory showing. See report below.

You will make no mistake in planting this valuable new variety. Be sure to order early, as many of our customers who ordered late last season were unable to secure stock.

Price, Postpaid., 1 doz. Eyes, 50c.; 4 lbs. Whole Potatoes, \$1.00. Freight or Express, 1 pk., \$1.25; ½ bu., \$1.75; bu., \$3.00.

ONE CUSTOMER IN EASTERN OREGON RAISED 1,097 LBS. OF FIRST-CLASS POTATOES FROM 3 LBS. OF "PRIDE OF MULTNOMAH." See "About the Limit," Page 50.

PORTLAND SEED CO.'S EARLIEST OF ALL

"Earliest of All" is sometimes referred to as our "Mushroom Potato" because they spring into such an early and rapid growth, being fully matured and dying down in time to plant another crop the same year.

One customer reports them ready for baking June 1st, nine weeks from planting, and fully matured in 12 weeks.

They keep better and later than any other early sort and far outyield all other early varieties.

"Earliest of All" is a healthy, vigorous grower not subject to blight or disease and does not make a second growth.

A handsome, shallow eyed, white skinned Potato of the finest table quality.
Per lb., 35c.; 4 lbs., \$1, postpaid; per peck, \$1; ½ bu., \$1.50; bu., \$2.50.

TRY THEM FOR "DRY FARMING." See report from customer.

"EARLIEST OF ALL."

Garfield, Wash., Oct. 18, 1909.

Gentlemen: There are several features about "Earliest of All" Potatoes that are rather pleasing. They are good drouth resisters and tender and fine grained, unusually light and of snowy whiteness.

I made two plantings of the two sacks, one quite early and not under best conditions. This sack gave 3,300 lbs. The second sack planted at same time and alongside of main crop potatoes yielded 5,400 lbs., actual weight. This for "Dry Farming" with no special care is certainly worthy of any potato grower's attention. About 200 sacks to the acre when my "Six Weeks" only give 45 to 50.

Very truly yours,

JOHN V. GOSS.

OFFICIAL REPORT—FROM THE "FAR EAST."

Raynham, Mass., Nov. 3, 1909.

Gentlemen: Your "Pride of Multnomah" Potatoes were one of the three heaviest yielding sorts out of over 80 varieties. The vines were green longer than any other sort on the grounds; resistant to bugs, blight and drouth. The driest season we have ever known here, yield 300 bu. per acre. A remarkable yield considering the season and the great change in locality and climate. We expect the acclimated seed to do even better next year. Shape good, quality excellent.

Your stock of "American Wonder" is exceedingly good; gave us 240 bu. per acre of fine tubers.

You will be satisfied, as we were, with "White Prizetaker" when you compare it with the early sorts. These were mostly a failure here, only two or three approaching Prizetaker, and they were heavy yielding, coarse varieties of poor quality. Prizetaker is very early and of fine quality. We think much credit is due to the splendid stocks you sent us. Yours sincerely,

J. R. LAWRENCE.

POTATOES—Continued

EARLY VARIETIES

EARLY WHITE PRIZETAKER

A handsome early white Potato, one of the finest of all early sorts, being oblong in form, 4 or 5 inches in length, with white smooth skin and few eyes. It is a very superior cooking Potato either baked or boiled, cooking up dry and floury.

White Prizetaker has one important advantage over all 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. We always advise early planting, as the crop will be larger and better.

Price, postpaid, 4 lbs., 80c.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1; bu., \$1.50.

EARLY SUNRISE

See color plate, page 48.

The best early pink variety—earlier than Rose, about the same depth of color, but a smoother, rounder Potato, if anything, a bit more slender than Rose. Sunrise is hardy, blight proof, and the best yielder of its type.

Price, postpaid, 4 lbs., 80c.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1; bu., \$1.50.

EARLY ROSE

See color plate, page 48.

Our stock of this popular variety is a special improved strain of our own growing; is very vigorous and extremely early.

Price, postpaid, 4 lbs., 80c.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1; bu., \$1.50.

MAIN CROP VARIETIES

NEW—HUNDRED FOLD

See color plate, page 48.

A splendid new main crop variety of the same general type as Uncle Sam, but surpassing that excellent variety in many ways, being a splendid dryland Potato, an enormous yielder and of the finest quality, being white, dry and mealy at any stage of development. The skin is russet, which is a mark of quality.

Hundred Fold is very hardy, with small vines, but the tubers are large and uniform. We consider it a variety of great merit.

Price, postpaid, 4 lbs., \$1; Frt. or Exp., pk., 75c.; $\frac{1}{2}$ bu., \$1.25; bu., \$2.

NEW "VIOLET"

For Wet Land.

Originated in France.

See color plate, page 48.

Derives its name from the purplish violet color of the skin. Is very hardy, and will thrive in any poor, clayey or gravelly soil if it is only wet, as it is particularly adapted to swampy wet land, where no other Potato would be fit for use. New Violet, no matter where grown, is one of the lightest, mealiest, finest flavored Potato ever produced. Try it in your home garden. Should be planted early.

Price, per doz. Eyes, postpaid, 50c.; 4 lbs., \$1.00, postpaid. By freight or express, peck, \$1.00; $\frac{1}{2}$ bu., \$1.50; bu., \$2.50.

AMERICAN WONDER

The Potato for Main Crop.

American Wonder is not only one of the best main crop potatoes but is also one of the earliest potatoes grown. It is practically blight-proof, a strong grower, a great producer, and one of the best varieties for general field culture. The vines are very strong and branching, with dark green foliage. Tubers white, large, and uniform in size; elongated, slightly compressed, with few eyes, which are nearly flush with the surface. In quality nothing can surpass this variety—either baked or boiled. It is dry and floury, and has a rich, sweet flavor. This is a potato much sought after by our commission men, potato buyers, shippers and dealers. The American Wonder will greatly outyield Burbanks, and surpasses them in many ways. We advise extensive planting of this sort. True stock.

Price, postpaid, 4 lbs., 60c.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1; bu., \$1.50.

Write for price in quantity.

BURBANK

A standard commercial variety. We can offer a splendid strain of select Burbanks, not the "run-out" stock generally seen, but the genuine article, which is a really good Potato.

Price, postpaid, 4 lbs., 80c.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1; bu., \$1.50.

SIR WALTER RALEIGH

A white main crop Potato of an oval form, of fine grain and good cooking qualities. It is a seedling of Rural New Yorker No. 2, and a great improvement over that variety, being the best of the many Carman productions. Excels most main crop varieties in keeping qualities; is very attractive and uniform in shape, and always a good yielder. We recommend it for a late shipping variety.

Price, postpaid, 4 lbs., \$1.00.

Frt. or Exp., peck, 75c.; $\frac{1}{2}$ bu., \$1.25; bu., \$2.

"ABOUT THE LIMIT."

Milton, Ore., Oct. 26, '09.

Gentlemen: Last spring I bought 6 lbs. of Potatoes—3 lbs. of "Earliest of All," 3 lbs. of "Pride of Multnomah." From the "Earliest of All" I dug 139 lbs.

From the "Pride of Multnomah" I dug 1,097 lbs.

I planted one eye to a hill. The largest hill weighed 19 lbs. There were no small hills and few small "spuds."

"How is that for high?"

C. O. B

GET A GOOD POTATO PLANTER SAVES TIME SEE PAGE 104
SAVES WORK



FERTILIZERS

We are the largest dealers and carry the most complete stock of Fertilizers and Fertilizing Materials in the Northwest. We solicit correspondence and orders from large buyers.

Special Fertilizer Booklet giving complete analysis and price of the different fertilizers which we can supply, together with full information for their application, will be sent on request. This book is of great value to all interested in fertilizers.

We use no rock, horn, leather, marl, wool waste or any other inferior ingredients. All materials used are of the highest quality and concentration.

"Diamond Quality" Fertilizers are complete fertilizers of the very highest grade, and the success which has attended their use is the best evidence of our skill and the excellence of the materials used in their manufacture. "Diamond Quality" Fertilizers conform to the standards of the State Laws of Oregon, and the guaranteed analysis is given with each bag.

Directions.—The best results are obtained by applying fertilizers in the late fall or early spring. The average amount used is 600 to 1,000 pounds per acre, but two or three times this amount is often used to advantage by market gardeners. Complete instructions will be found in our Fertilizer Booklet, sent free. If there is any special information you require, write us; your inquiries will have our prompt and careful attention.

NEW "STANDARD FERTILIZER"

Carefully prepared to replace all plant foods removed from the soil by general crops. If your land is not impoverished "Standard" will maintain its fertility at a moderate cost. Analysis: Nitrogen, 2 to 2½ per cent; phosphoric acid, 5 to 6 per cent; potash, 4 per cent. Price: 25 lbs., 50c.; 50 lbs., 85c.; 100 lbs., \$1.50; 1,000 lbs., \$14.00; ton, \$27.00.

No. 1—GENERAL FERTILIZER

An all-around fertilizer, better than "Standard," which can be used on any crop, but is especially adapted for grain and general farm crops. Analysis: Nitrogen, 2 to 2½ per cent; phosphoric acid, 6 to 6½ per cent; potash, 8 per cent. Price: 10 lbs., 40c.; 100 lbs., \$2.00; 500 lbs., \$9.50; 1,000 lbs., \$18.50; per ton, \$36.00.

No. 4—FRUIT AND STRAWBERRY

This fertilizer is also used for blackberries, raspberries, etc. We sell large quantities for growing the famous Hood River Strawberries. Analysis: Nitrogen, 2 to 3 per cent; phosphoric acid, 7 to 8 per cent; potash, 9 to 10 per cent. Price: 10 lbs., 40c.; 100 lbs., \$2.25; 500 lbs., \$10.00; 1,000 lbs., \$19.50; ton, \$38.00.

No. 5—ODORLESS LAWN DRESSING

This fertilizer supplies a long-felt need, and produces a dark green lawn; can be used at the time the seed is planted and later as a top dressing. One hundred pounds is sufficient for an ordinary city lot, and is far more effective and less objectionable than stable manure. Remember, it contains no weed seeds. When used as a top dressing it is best to make several small applications about two weeks apart. Price: 10 lbs., 50c.; 25 lbs., 80c.; 50-lb. sack, \$1.25; 100 lbs., \$2.25.

No. 10—SPECIAL HOP AND ONION

A fertilizer made especially for hops; very rich in potash, and when used freely in hop yards has been known to double the yield and improve the quality of the hops. Be sure that you get "Diamond Brand." Analysis: Nitrogen, 2½ to 3 per cent; phosphoric acid, 6 to 7 per cent; potash, 12 per cent. Price: 100 lbs., \$2.25; 500 lbs., \$10.75; 1,000 lbs., \$21.00; ton, \$40.00.

LAND PLASTER, OR GYPSUM

Made from pure gypsum, absolutely free from clay or other foreign matter. This is especially valuable for clover and grass crops. Oregon: 10 lbs., 25c.; 100 lb. sack, 75c.; ½ ton \$5.50; ton, \$10.50. Utah: ½ ton, \$6.50; ton \$12.50.

NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop.

Per lb., 5c.; 100 lbs., \$3.25; 1000 lbs \$30.00

SUPERPHOSPHATE

This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid. Our present stock contains 17 per cent available phosphoric acid.

Price: Per lb., 5c.; 100 lbs., \$1.60; ton, \$29.00.

GROUND BONE—PURE

Pure Ground Bone, fine ground, is one of the best fertilizers. This is the only grade of Ground Bone we are now manufacturing, and is all pure bone, reduced by improved machinery to an even fineness—nothing is added, and is free from any adulterant. This is a very valuable enricher of the soil, and one of the most economical at present prices.

Price: 5 lbs., 25c.; 10 lbs., 35c.; 100 lbs., \$1.75; ton, \$31.00.

BLOOD MEAL

Pure Blood, cooked, dried and finely ground. A quick-acting fertilizer, analyzing very high in effective nitrogen; in fact, the nitrogen of Dried Blood is one of the most effective forms of organic nitrogen known. This also carries some phosphorus; is a strong fertilizer, a little going a long way.

Price: 5 lbs., 30c.; 10 lbs., 50c.; 100-lb. sack, \$3.00.

FISH GUANO

Fish scraps, cooked, dried and ground, is a strong fertilizer, high in nitrogen, carrying considerable phosphorus and used largely by vegetable growers. We do not recommend this for lawns or city use, as odor is objectionable and particles picked up by dogs have been known to poison them.

Price: 100 lbs., \$2.25; ton, \$43.00.

ANIMAL FERTILIZER

Ground meat scraps, desiccated in a vacuum; is very rich in phosphoric acid and nitrogen.

Price: \$1.75 per 100-lb. sack; \$30.00 per ton.

HIGH GRADE FERTILIZERS CHEAPEST

An empty wagon with a 100-pound bag of the highest grade of commercial fertilizer as a cushion for the driver's seat will contain more soluble and available plant food than 4,000 pounds (two tons) of stable manure of average quality. How much easier and cleaner to handle one 100-pound bag than tons of manure, and there are no weed seeds to worry over.

NOTE.—As Fertilizers are sold on a small margin, prices are subject to market changes, but you will always get full value for your money.

PORTLAND SEED COMPANY'S
FERTILIZERS—Continued

POTASH

One of the most important fertilizing elements. We are general agents for the German Kali Works, whose products are known and used throughout the entire world.

Their valuable literature will be sent free on application. If you are not informed on this subject, it will pay you to give it your immediate attention.

We receive direct importations and offer the following in original packages, or can supply any quantity, large or small, at lowest price.

MURIATE OF POTASH.	Price: Lb., 5c.; 100 lbs., \$3.25; sack, 224 lbs., \$6.50; ton, \$54.00.
SULPHATE OF POTASH.	Price: Lb., 5c.; 100 lbs., \$3.50; sack, 224 lbs., \$7.25; ton, \$60.00.
KAINIT.	Price: Lb., 3c.; 100 lbs., \$1.50; sack, 224 lbs., \$2.50; ton, \$20.00.

NITRO-CULTURE

Be sure to state the kind of seed you intend to inoculate.

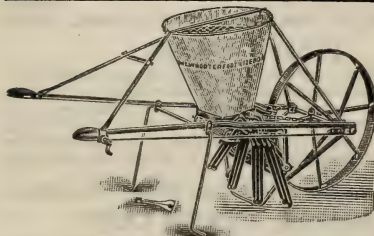
Of the three essential plant foods, Nitrogen, Phosphoric Acid and Potash, Nitrogen is the most important and expensive. The air is four-fifths Nitrogen and the soil is full of air, but plants cannot extract Nitrogen from the air, except by a wonderful process of nature, through germ action, by which this vast store of Nitrogen is made directly available at a cost not to exceed \$1.50 per acre. This wonderful discovery was made, and since developed, by the U. S. Government, Department of Agriculture, and is called Nitro-Culture, after the little germs that produce the Nitrogen gathering nodules on the roots of leguminous plants. See illustration.

These germ cultures are put up in small, dry packets. You simply add water and sprinkle on the seeds. It will increase your crop two to ten times. Write for pamphlet.

NITRO-CULTURE must be sprinkled on the seeds before planting, and can only be supplied for the following: Alfalfa, White, Red and Alsike Clovers, Beans, Vetches, Cow Peas, Field and Garden Peas, and Flowering Sweet Peas. As yet no cultures have been discovered for any other than leguminous plants.

Prices: Trial pkg., $\frac{1}{8}$ to $\frac{1}{4}$ acre, 50c.; acre pkts., \$1.50; 5-acre pkts., \$5.00. Special garden size for Sweet Peas, Garden Peas and Beans, 25c.

Our Fertilizers contain generous supplies of vital plant food. Being highly concentrated and readily available, small quantities only are needed for the production of the finest crops. **THEY ARE QUICK IN ACTION, RELIABLE AND ECONOMICAL.**



McWHORTER'S FERTILIZER DRILL.

It will distribute the fertilizer in one or more furrows beside the growing crop or broadcast to any extent up to a uniform spread of over two feet, without removing or adding any part or loosening a bolt, and in any quantity from a few pounds up to forty or more pounds to the hundred yards of row, or from 200 pounds to over a ton to the acre. We call special attention to this ability to spread the fertilizer with this machine. It is a highly important feature and will be appreciated by the thinking farmer. A decidedly wrong thing is to apply the strong fertilizers of the present day without sufficiently spreading and incorporating them with the soil. Shipping weight, 61 pounds. Price, complete, \$13.00.

NITRO-CULTURE IS A PRACTICAL SUCCESS, AND IS ENDORSED BY THE UNITED STATES GOVERNMENT.

DIAMOND PLANT FOOD

Special for House Plants, Palms, etc.

A complete, highly concentrated, powerful fertilizer, clean and odorless, wonderfully invigorating to all plants; producing luxuriant foliage and larger and more brilliant flowers. A 25c. package will feed a dozen large plants a whole year. Special instructions on each package. Price: $\frac{1}{2}$ lb., pkg., 15c., by mail 25c.; 1-lb. pkg., 25c., by mail 40c.



ROOTS SHOWING EFFECT OF INOCULATION WITH NITRO-CULTURE.

(Taken from a photograph by the United States Department of Agriculture.)

McWHORTER FERTILIZER DRILL No 21

For the Practical, Superior Distribution of Commercial Fertilizers—Simple in Construction, Easily Understood and Effective in Operation.

This machine needs no defense or praise from us. Wherever known, it is pronounced the best. Has a force feed without friction; does not require that degree of dryness in the fertilizer necessary to all other distributors we have seen; is so arranged that the fertilizer can be applied in any manner that may be desired, as the operator has perfect control of the spread and division of same, any change for that purpose requiring only a few seconds.

Wherever known, it is pronounced the best. Has a force feed without friction; does not require that degree of dryness in the fertilizer necessary to all other distributors we have seen; is so arranged that the fertilizer can be applied in any manner that may be desired, as the operator has perfect control of the spread and division of same, any change for that purpose requiring only a few seconds.

Price, complete, \$13.00.

FLOWER SEED DEPARTMENT

CHOICE NEW AND STANDARD VARIETIES.

FLOWERING PLANTS can be enjoyed by everyone, whether owner of a country estate, or limited to a few boxes or pots in a room, and for the small expense and care, nothing will return so much profit and pleasure. If you have any planting problems, or if there are certain effects you want to secure and are in doubt as to what is best to do, write us. We shall be glad to assist you in every way possible, and our experience is at your service.

CULTURE.

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.

After the seeds are up they require plenty of air and moisture, but they must not be too wet or they will "damp off." When large enough to transplant, put them in boxes or pots, giving them plenty of room, then when the ground is warm enough to put them outside each plant will have a nice clump of roots, but if they are left in the seed bed and are close together they will be weak and will not thrive.

A common mistake with flower as well as other seeds is planting too deep. A good rule is to plant the same depth as the thickness of the seed, and always press the soil down firmly, as this helps the seed to secure a firm hold and also retains the moisture.

A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches.

Annuals bloom and ripen the first year, and then they perish. Many annuals in warm climates, or when taken in, or protected during winter, become perennial, with short lives.

Biennials do not generally flower the first year, and are in their perfection the second year.

Perennials flower several years in succession.

Hardy Annuals, Biennials and Perennials can be sown in the open ground early in the spring,



if desired, and Hardy Biennials and Perennials do not require any protection in winter.

Half-Hardy Annuals, Biennials and Perennials should not be sown in open ground until settled, warm weather, though they can be sown in the house, if desired, early, and afterwards transplanted. The two latter need to be protected in the winter, or carried over until spring in cold frames or greenhouses.

ASTERS

As fall-blooming annuals Asters have no superiors, and many of the new varieties rival the chrysanthemum in size and beauty. Asters should have rich soil and abundant moisture. They are half-hardy annuals. Fine Plants in Season, see Page 80.

THREE GRAND NEW ASTERS

HERCULES WHITE.

A splendid new half dwarf white, with immense pure white blooms of great beauty. Be sure to give this novelty a trial.

Price, Pkt., 25c.

NEW "CREGO GIANT" ASTER.

The "Giant Crego" is distinct in every way, and its magnificent flowers, often 6 inches in diameter, are fully equal to chrysanthemums. They have rare beauty of form and brilliant coloring, are very vigorous, and free flowering; blooms are borne on long stems.

White, Shell Pink, Rose, Pkt., 25c; 1/4 oz., \$1.25.

"MIKADO."

Another new type of Aster of great merit. A favorite with florists. Has very long, narrow petals, straight at the outside, but toward the center they cross and recross in splendid confusion, giving the bloom a beautiful, fluffy fullness. Mikado is very vigorous, with strong branching habit, producing a blossom on every shoot.

Pink, White, Per Pkt., 25c.; 1/4 oz., \$1.15.

Special Offer: 1 Pkt. each of these 3 New Asters, 50c.

QUEEN OF THE MARKET.

Best early Aster, of graceful spreading habit. Two weeks ahead of other varieties.

Color, White, Lt. Blue, Scarlet, Dark Blue
Price, 10c Pkt.; 1/4 oz., 40c.

DAYBREAK.

Flowers are full, large and round, borne freely on long stems. Color a dainty shell pink. Very early.

Price, per Pkt., 10c.; 1/4 oz., 50c.

IMPROVED VICTORIA.

Flowers large, beautifully imbricated and perfect in form. Crimson, Rose, White, Light Blue, Mixed.

Pkt., 10c.; 1/4 oz., 60c.

HOHENZOLLERN ASTERS.

The largest of the "Comet or Ostrich Feather" type. Petals are longer, more curled and twisted, and more flowers are produced; ideal for cut flowers. Color, Brilliant Rose.

Price, Pkt., 10c.; 1/4 oz., 50c.

CHRYSANTHEMUM FLOWERED.

Half dwarf; of compact growth; flowers large, abundant and later than many sorts. White, Scarlet, Lilac, Rose or Mixed.

Pkt., 10c.; 1/4 oz., 60c.

GIANT COMET.

One of the handsomest of the tall growing sorts; flowers large and beautiful; petals long and twisted. Rose, Crimson, Light Blue, White or Mixed.

Pkt., 10c.; 1/4 oz., 50c.

SEMPLE'S LATE BRANCHING.

A magnificent strain; flowers large, beautiful, double, and borne on long stems.

White Rose, Crimson, Blue or Mixed.
Pkt., 10c.; 1/4 oz., 35c.

ACROCLINIUM, OR EVERLASTING FLOWER.

Elegant, annual, everlasting, producing beautiful daisy-like flowers, resembling the Rhodanthe. Fine for winter bouquets. Gather them partially opened, and dry in the shade. Height, ten to fifteen inches.

Mixed, all colors, pkt., 5c.

AGERATUM.

Fine for bouquets and useful for beds, borders and pot plants. The flowers are graceful tufts of fine petals that remain fresh a long time after being cut. The plant blooms all summer. Half hardy annual; six to eighteen inches high. (See cut.) Plants in season.

Mexicanum Nanum. Light Blue, White or Mixed, Pkt., 5c.; ¼ oz., 15c.



Ageratum.

AGROSTEMMA.

Strikingly beautiful for beds, ribbons and borders. Its graceful, pink-like flowers remain fresh a long time after being cut, and are very handsome in bouquets. Thrives in any soil. (See cut.)

Coronaria. Perennial.

Pkt., 5c.



Agrostemma.

Our Flower Seeds come from the best American and foreign growers.



Arabis Alpina.

ALYSSUM.

Every garden should have plenty of Sweet Alyssum; its small, white flowers, borne in great profusion, are delicately fragrant and valuable for cutting; it is a good basket and pot plant, and valuable for carpet bedding. In the border sow thickly so as to make a mass. It is desirable to sow the seeds early in spring or even the previous autumn. Hardy annual. Plants in season.

Maritimum. Sweet. Pkt., 5c.; oz., 30c.
 Maritimum. Little Gem. Pkt., 5c.; oz., 50c.
 Procumbens. Of trailing habit; profuse bloomer. Pkt., 10c.; ¼ oz., 20c.
 Saxatile. Perennial. Yellow flowers. Pkt., 5c.; ¼ oz., 20c.

AMARANTUS.

Our warm summers suit admirably the varieties of Amaranthus cultivated for ornament. These are plants which are striking on account of their foliage or peculiar mode of bloom.

Melancholicus Ruber. Deep red foliage; dwarf Pkt., 5c.
 Caudatus. Graceful, drooping flowers. Pkt., 5c.
 Tricolor, or Joseph's Coat. Foliage scarlet, yellow and green Pkt., 5c.

AMMOBIUM.

One of the hardiest everlastings. The flowers are not large, but beautiful in form, and pure white. Very desirable for winter bouquets. An easily grown annual. Pkt., 5c

ARABIS, OR ROCK CRESS.

The earliest, prettiest, spring flower. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequaled for rockeries or edgings; withstands the drought and is always neat.

Alpina. (See cut) Pkt., 5c.
 Alpina Grandiflora Superba (new) Pkt., 10c.

AURICULA, OR PRIMULA AURICULA.

Beautiful, spring-blooming flowers. Hardy, perennial. Finest Mixed. Pkt., 25c.

ASPARAGUS PLUMOSUS, OR ASPARAGUS FERN.

One of the prettiest house plants. The leaves are bright green, gracefully arched, surpassing Maidenhair Ferns in grace, delicacy of texture and richness of color. For plants see Plant Department. Pkt., 25c.; 25 seeds, 50c.

ASPARAGUS SPRENGERI, OR EMERALD FEATHER.

One of the best of the new so-called ferns. Feathery foliage; useful for bouquets, wreaths or sprays, remaining perfect for weeks after cutting. Grows freely the whole year round. (For Plants see Plant Department.) Price: Pkt., 10c.; 25 seeds, 25c.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS.

A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

Cyanus. Fine single mixed. Pkt., 5c.; oz., 25c.
 Cyanus. Fine double mixed. Pkt., 5c.; oz., 25c.
 Cyanus. Alba, single white. Pkt., 5c.; oz., 35c.
 Cyanus Azurea. Single, blue. Pkt., 5c.; oz., 35c.

BALLOON VINE.

A rapid, graceful climber, with inflated seed pods; flowers white. Tender annual. Pkt., 5c.; oz., 25c.

GOOD SERVICE

We want you to tell us when you are not satisfied. If the error is ours we will correct it, if it's the other fellow's we will help all we can.



Balsam.

BALSAM.
Ladies' Slipper
or
Touch-Me-Not.

Exceedingly handsome plants, producing masses of attractive and various colored flowers. Half hardy annual. (See cut.)
Tall Double Camellia Flowered Mixed. Pkt., 5c; ¼ oz., 25c.
Dwarf, Double, Mixed. Pkt., 5c; ¼ oz., 25c.

BROWALLIA.

Handsome, free flowering annual. Covered all summer with bright, rich blue and white flowers. Worthy of more general cultivation. Eighteen inches high. Mixed Pkt., 5c.

BRACHYCOME.

Swan River Daisy. A charming flower in white and blue varieties. The plants grow about twelve inches in height and bloom freely. They make elegant border plants.

Choice Mixed, Pkt., 5c.

BEGONIA.

Begonias are among the most beautiful of flowering plants especially adapted to pot culture. Try our select seed; the finest in the world.

Red. Ornamental leaved varieties; very handsome. International Prize, Single mixed. Pkt., 25c.

Fringed. Single mixed. Pkt., 25c.

Gracilis Pkt., 15c.

Finest Strain of Double Tuberos Rooted Pkt., 25c.



CARNATION.

Universally admired, deliciously fragrant. There is no more satisfactory flower to grow and few that are as lasting. The seed we offer is the finest obtainable and our new strains of perpetual flowering carnations will bloom the first year. For plants see Page 78.

Carnation, extra select, double white, red or rose. Pkt., 15c; ¼ oz., 75c.

Extra Choice Double Mixed, Pkt., 20c; ¼ oz., 75c.

Fine Double Mixed, Pkt., 10c; ½ oz., 35c.

Margaret. Separate colors, white, yellow, dark red, mixed. Pkt., 10c; ½ oz., 30c.

Grenadin; scarlet; charming double scarlet, dwarf and compact; very early, free flowering; especially fine for borders. Per Pkt., 15c; ½ oz., 75c.

CALLIOPSIS, OR COREOPSIS.

Very showy and attractive. Always covered with a mass of bright flowers. A fine cut flower.

Choice Mixed Dwarf Annual, Pkt., 5c; ¼ oz., 20c.

Choice Mixed Double Annual, Pkt., 5c; ¼ oz., 20c.

Lanceolata. A perennial, blooming the first year; flowers rich yellow, single; very fine for cutting. Pkt., 10c; ¼ oz., 35c.

Grandiflora. Perennial, Mixed. Pkt. 10c.

CALCEOLARIA.

Very handsome and much admired. Produces a profusion of beautiful flowers of unique form and colorings. Fine for pot culture.

Hybrida. Finest Mixed Pkt., 50c.

CALLA.

Devoniensis. New. A fine calla that will bloom from seed in one year. For Calla Bulbs, see Plant Dept. Pkt., 15c; 25 seeds, 50c.

Aethiopica. The well-known "Lily of the Nile." Pkt., 15c.

CALENDULA, OR POT MARIGOLD.

The well-known Pot Marigold, valued by Europeans for flavoring soups and stews. Flowers are dried in fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year round. Plant in early spring in open ground. Double Mixed, Pkt., 5c; ¼ oz., 15c.

CATCHFLY, OR SILENE.

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Fine mixed; all colors. Pkt., 5c; oz., 25c.



CARNATION

CANNA

Ornamental, tropical looking plants of easy culture; large and beautiful flowers. Hardy perennial. For Canna Bulbs, see Plant Department

Crozy's New Large Flowering Mixed. Pkt., 10; oz., 35c.

New French and German varieties; mixed. Pkt., 10c; oz., 50c.

CANARY BIRD FLOWER.

Climbing plant with graceful foliage and yellow blossoms. Half-hardy annual. Pkt., 5c; ¼ oz., 15c.

CANDYTUFT.

Candytuft has long been among the most highly prized of garden annuals. The best effect is produced by raising the plants in masses, and sowing the seeds where the plants are to bloom.

Odorata. Sweet scented; white. Pkt., 5c; oz., 20c.

White Empress. Very sweet and attractive. Pkt., 5c; oz., 40c.

Carmine or Purple. Pkt., 5c; oz., 40c.

Mixed. All colors. Pkt., 5c; oz., 20c.

Sempervirens. Perennial. White. Pkt., 10c; ½ oz., 25c.



LADY LENOX—New Giant Cosmos.

COSMOS.

Seed sown in March or April and transplanted to open ground will produce plants three to five feet high by September, which thereafter, and until November, will yield hundreds of blossoms three inches across; they are of various shades, from pure white to purplish crimson. Both foliage and flowers are unsurpassed for bouquets and vases. Annual. (Plants in season.)

Lady Lenox. A magnificent new type of extraordinary size and rare beauty. Color, a delightful pink. Beautiful under artificial light. The oval petals form a perfectly circular flower which keeps well when cut. (See cut.)

Klondyke. Blooms very early and continuously; three to four feet high; flowers large, golden yellow and borne on long stems.

Early Dawn. White, slightly tinted pink.

Marguerite. New and odd; very pretty, petals fringed. Mixed.

Mammoth Flowering. White, pink, red or mixed.

Price, per Pkt., 10c.

Pkt., 10c; ¼ oz., 15c.

Pkt., 10c; ¼ oz., 35c.

Pkt., 15c; ¼ oz., 50c.

Pkt., 10c; ¼ oz., 20c.

CHRYSANTHEMUM.

Very showy, effective and desirable as summer flowering plants. Hardy annuals.

Coronaria. Double mixed.

Frutescens. (Marguerite, or Paris Daisy).

Carinatum. Single mixed.

Pkt., 5c.

Pkt., 10c.

Pkt., 5c.



Celosia—Cockscomb.

CENTAUREA.

Odorata Chameleon. Grown for its handsome, fragrant, yellow and rose flowers; superb.

Imperialis. A fine, sweet-scented flowering variety. Hardy annual. All colors mixed.

Pkt., 10c; ¼ oz., 25c.

CANTERBURY BELLS.

Very ornamental garden plants of the easiest culture; hardy biennial, two and a half feet high, producing large, nodding and charming, bell-shaped flowers of many exquisite shades.

Campanula. Single, mixed.

Pkt., 5c; ¼ oz., 20c.

Campanula. Double, mixed.

Pkt., 10c; ¼ oz., 50c.

Campanula. Calycanthema (Cup and Saucer). White or mixed.

Pkt., 5c; ¼ oz., 50c.

Persicifolia. Hardy perennial; very fine; blooms in June. Mixed.

Pkt., 20c.

Diamond Mixture. Finest sorts; all colors, single and double.

Pkt., 10c.

CASTOR BEAN, OR RICINUS.

Highly ornamental, of stately growth and having large leaves of bronze or glossy green; of very easy culture. (See cut.)

Sanguineus. Brilliant scarlet.

Pkt., 5c; oz., 20c.

Zanzibariensis. Surpasses all in size and beauty of colors. Mixed.

Pkt., 5c; oz., 20c.

Borboniense Arboreus. The largest variety.

Pkt., 5c; oz., 20c.

Mixed. Best varieties

Pkt., 5c; oz., 15c.

New Hybrid. Panormitanus. Dark brown leaves; very decorative.

Pkt., 10c.



Castor Bean.

CELOSIA, FEATHERED.

Pyr. Plumosa. Mixed colors of great brilliancy.

Pkt., 5c.

Thompsoni Magnifica Feathered. Splendid new class, for pots or open ground, especially fine for market. Mixed.

Pkt., 10c.

CINERARIA.

Magnificent and indispensable flowering plants for the window garden. The flowers are of white, blue, violet and crimson shades, covering the plant with a sheet of bloom.

Hybrida. Grandiflora, prize mixed. Extra choice.

Pkt., 50c.

CLARKIA.

Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive.

Double mixed. Pkt., 5c.

GLIANTHUS DAMPIERI.

A fine pot plant, bearing clusters of curiously shaped and very brilliantly colored flowers, scarlet with black center; tender perennial.

Pkt., 20c.

CELOSIA, OR COCKSCOMB.

(See cut.)

Graceful, free blooming, half-hardy annuals.

Cristata. Finest varieties. Mixed.

Pkt., 5c.

President Thiers. Dwarf, crimson comb.

Pkt., 10c.

COBAEA SCANDENS.

A handsome, rapid-growing, climbing plant, having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. (Plants in season.)

Purple, Pkt., 10c; ¼ oz., 20c; White, Pkt., 10c; ¼ oz., 25c.

COLUMBINE, OR AQUILEGIA.

Sometimes known as Honeysuckle. Produces handsome flowers perennial

Double White.

Coerulea. Hybrid Mixed.

Rose Queen. New.

Coerulea. Fl. Plena. New. Splendid.

Best Double or Single Varieties, Mixed

Pkt., 10c.

Pkt., 10c.

Pkt., 25c.

Pkt., 25c.

Pkt., 5c.

COLLINSIA.

This is an interesting free-flowering, hardy annual. The flowers are in whorls, handsomely variegated in crimson, purple and white. Mixed.

Pkt., 5c.

COLEUS.

Probably the best known and most popular of ornamental foliage plants. Leaves all shades and colors. Tender perennial.

Finest Hybrid Mixed.

Pkt., 15c.

Extra Mixed (Benary).

Pkt., 50c.

CYCLAMEN.

Beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. The colors range through shades of pink, crimson, white, spotted, etc. Delicately fragrant. Bulbs in season. (See cut above.)

Giganteum Hybridum. Mixed. Pkt., 25c.

Papilio. Butterfly. Mixed. Pkt. 50c.

CYPRESS VINE, OR IPOMOEA QUAMOCILIT.

A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. White, scarlet or mixed.

Pkt., 5c; ¼ oz., 15c.

DRACAENA.

Ornamental, greenhouse plant. Very desirable.

Indivisa Lineata. Narrow, dark foliage. Pkt., 10c.

DAISY, OR BELLIS PERENNIS.

A well-known and popular, low-growing plant bearing beautiful flowers. Hardy perennial.

Longfellow. Double red. Pkt., 15c; 1-16 oz., 40c.

Double White or Mixed. Pkt., 15c; 1-16 oz., 40c.

Burbank's New Shasta. Very hardy; profuse bloomer; flowers very large and borne on long stems; single; petals pure, glistening white; center dark. Pkt., 25c.

ESCHSCHOLTZIA, OR CALIFORNIA POPPY.

These are among our most beautiful and popular annuals, being of the easiest culture and giving great satisfaction. They commence to bloom within a few weeks' time from spring-sown seed and continue to flower profusely until late in the autumn, forming nice, bushy plants, one foot high. (See cut.)

Californica. Single yellow, carmine, white or mixed. Pkt., 5c; oz., 35c.

Californica. Double mixed. Pkt., 5c; oz., 40c.

Mandarin. Inner side of petals rich orange, outer side brilliant scarlet; very striking; single. Pkt., 5c; oz., 35c.

(For Other Sorts See Poppies.)

ECHINOCYSTIS LOBATA, Or Wild Cucumber.

A rapid-growing climber. Very good for covering old fences or trellises. Hardy annual. Pkt., 10c; oz., 25c.

FOUR O'CLOCK, OR MIRABILIS—Marvel of Peru.

A hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades and markings. Flowers open at four o'clock, close in the morning.

Choice Mixed. Pkt., 5c; oz., 15c.



Cyclamen.

DAHLIA.

A magnificent, fall-blooming tuberous-rooted plant, which can be readily started from seed.

For Dahlia Roots, see Plant Department.

Double mixed. Pkt., 10c.

Single mixed. Pkt., 10c.

Cactus. New; flowers odd and fantastic in shape; all colors.

Single mixed. Pkt., 10c.

Double mixed. Pkt., 20c.

Twentieth Century. New single Dahlias of recent introduction; flowers large and handsome.

Pkt., 10c.

New semi-double Giant Peony flowered.

Pkt., 20c.

DATURA.

Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved in the cellar, like Dahlias.

Fastuosa Herberiana. Double Mixed. Pkt., 5c.



Eschscholtzia,

EUPHORBIA.

Fine, ornamental, foliage plants. Hardy annual.

Variegata. Variegated foliage. Pkt., 5c.

FOX GLOVE, OR DIGITALIS.

A tall growing biennial, with large leaves, and spikes of vari-colored and spotted flowers. Significant plant. Fine for borders or background. Easily grown. Fine mixed or white.

Pkt., 5c; ¼ oz., 15c.

FORGET-ME-NOT, OR MYOSOTIS.

Beautiful, spring favorites, of easy growth, bearing clusters of lovely, small flowers. They are perennials and are hardy enough to remain in the open ground except in very cold latitudes. Fine for borders. (See cut.)

Alpestris. Of trailing habit, with pretty flowers. Blue or mixed. **Pkt., 10c; ¼ oz., 25c.**

Semperflorens. Dwarf; continuous bloomer; blue. **Pkt., 10c.**

Victoria. Flowers large, bright, azure-blue; fine for cut flowers. **Pkt., 10c; ½ oz., 25c.**

GAILLARDIA.

Exceedingly beautiful, half-hardy perennial, making very showy plants, one to two feet high, for the flower garden. Grown in masses they are especially effective; large flowers, two to three inches across, produced from early summer until frost; unrivaled for cutting.

Grandiflora Maxima. Golden. **Pkt., 10c; ¼ oz., 25c.**

Mixed. Many shades of yellow, orange and scarlet. **Pkt., 10c; ¼ oz., 25c.**

Picta. Large, handsome yellow flowers. Hardy annual. Double or single. **Pkt., 10c; ¼ oz., 25c.**

GILIA.

Gilias are free-flowering, hardy annuals, one foot high, with finely cut foliage and clusters of small, delicate flowers, white, lilac and rose color; desirable for cutting and suitable for beds, rockwork and edgings.

Mixed. **Pkt., 5c.**

GLOXINIA.

Most charming, greenhouse plants of dwarf habit. Their flowers are produced in greatest profusion, and of the most exquisite and gorgeous colors, many of which are magnificently spotted, mottled and blended. Under the commonest culture they bloom continuously for months.

Hybrida Grandiflora. Choicest mixed. **Pkt., 25c.**

Robusta. Erect, hardy, extra choice. **Pkt., 25c.**

GREVILLEA, ROBUSTA.

The Silk Oak. Very beautiful and graceful foliage plant. **Pkt., 10c.**

GODETIA.

The Godetias are profuse and constant bloomers, and their delicate tints of crimson, rose and white render them very attractive. Hardy annuals.

Fine mixed. **Pkt., 5c.**

Gloriosa. Lord Roberts. Dark red, compact, fine. **Pkt., 10c.**

GYPSOPHILA, OR BABY'S BREATH.

A pretty, free-flowering plant. Fine for bouquets.

Paniculata. Foliage fine; covered with tiny, pure white flowers. Hardy, perennial. **Pkt., 5c.**

GOURDS.

Of rapid growth, and bearing curious fruits of various sorts. Dipper, bottle, egg-shaped.

Large varieties. **Pkt., 5c; oz., 25c.**

Mixed. **Pkt., 5c; oz., 25c.**

Small varieties. **Pkt., 5c; oz., 25c.**

Mixed. **Pkt., 5c; oz., 25c.**

HELIOTROPE.

Delightfully fragrant, free-blooming, tender, perennial plants. Splendid for bedding or pot culture. One foot high of spreading habit. The fragrance of its flowers cannot be excelled in exquisite delicacy. Invaluable for bouquets.

Mixed. Choice. **Pkt. 10c; ½ oz., 40c.**

Mammoth flowered. Blue, white or mixed; very fine. **Pkt., 15c.; ½ oz., 50c.**



Forget-Me-Not.

GERANIUM.

A half-hardy perennial, easily and quickly grown from seed.

Lady Washington. Foliage green; flowers large, handsome, oddly marked, fine for pot culture.

Finest mixed. **Pkt., 25c.**

Zonale. This is the well-known bedding Geranium. Single mixed. **Pkt., 10c.**

Zonale. Very finest and newest sorts. Choice mixed. **Pkt., 15c.**

GENTIANA.

Fine, showy flowers. Should be in every flower garden. Hardy. Mixed. **Pkt., 10c.**

GEUM.

Chiloense.

Hardy perennial. Free-blooming plants. Fine for bouquets. Scarlet. Double. **Pkt., 5c.**

GLOBE AMARANTH, OR GOMPHRENA.

An old favorite, everlasting flower. Mixed. **Pkt., 5c.**



Gypsophila.



Heliotrope.

HOLLYHOCK, OR ALTHAEA.

The modern Hollyhock is quite different and much more beautiful than the plant of twenty years ago, being much more compact in growth; the flowers are larger, richer colored, and the double varieties are fuller and of better form. For a background to a flower garden there can be nothing better. Hardy perennials; five feet high.

Chater's Finest Mixed; Double varieties of the greatest perfection.

Pkt., 10c; 1/4 oz., 50c.

Double Crimson, White, Yellow or Pink.

Pkt., 10c; 1/4 oz., 60c.

Allegheny. This sort has very large flowers, composed of fringed and crinkled petals. Rich and handsome. Double choice mixed.

Pkt., 10c; 1/4 oz., 30c.

Hybrida Semperflorens. Finest new, single mixed.

Pkt., 10c.

HELICHRYSUM.

Everlasting flower. One of the best for winter bouquets. White, yellow and crimson. Hardy annual. Double mixed.

Pkt., 5c.

HIBISCUS.

Strong-growing plants, of very easy culture and exceedingly showy. Has large, cup-shaped flowers. Hardy annual. Extra mixed.

Pkt., 5c.

HUNNEMANNIA, OR GIANT YELLOW TULIP POPPY.

Fumariaefolia. Best of the poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow, poppy-like blossoms, and never out of flower until hard frost.

Pkt., 10c.

HYACINTH BEAN, OR DOLICHOS.

Rapid growing, ornamental, climbing annuals, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Mixed.

Pkt., 5c; oz., 15c.

ICE PLANT.

Pretty, summer, trailing annual for vases and rockwork; leaves covered with ice-like drops.

Pkt., 5c.

LANTANA.

A free-flowering, shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor and are of many shades of purple, orange and white. Half-hardy perennial.

Hybrida Fine Mixed.

Pkt., 10c.

LARKSPUR, OR DELPHINIUM.

A very ornamental class of profuse blooming plants. Their tall spikes of many colored flowers produce a striking effect when planted in groups. Hardy annual.

Dwarf Rocket. Finest colors.

Pkt., 5c; 1/4 oz., 20c.

Tall Branching. Finest mixed.

Pkt., 5c; 1/4 oz., 20c.

Perennial Mixed.

Pkt., 5c; 1/4 oz., 20c.

Finest Double Mixed.

Pkt., 10c; 1/4 oz., 25c.

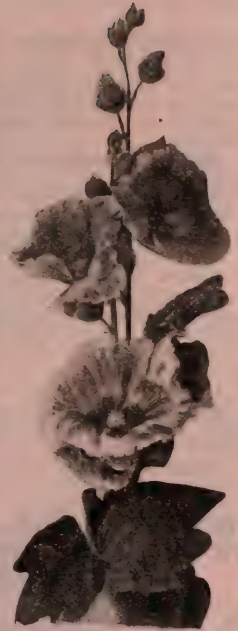
LINUM, OR CRIMSON FLAX.

Beautiful and effective; hardy annual, about eighteen inches high; covered with bright, scarlet flowers.

Pkt., 5c; oz., 35c.

Perennial. Mixed.

Pkt., 5c; oz., 35c.



Hollyhock.



Larkspur.



Lobelia.

(Flower only, about life size.)

LOBELIA.

Delicate, low growing, annual plants of the greatest value for borders, ribbons, edgings, rockwork and hanging baskets. (See cut.)

Hybrid Hamburgia. New; light blue with white eye, long drooping flower stalks; fine for hanging baskets or boxes; grows rapidly.

Pkt., 10c.

Gracilis. Blue, trailing; beautiful for baskets.

Pkt., 10c; 1/4 oz., 25c.

Crystal Palace. Dark blue; fine for bedding.

Pkt., 10c; 1/4 oz., 25c.

Crystal Palace Compacta. Plant dwarf; flowers very fine and rich, deep blue; finest for bedding and edging.

Pkt., 10c; 1/4 oz., 50c.

White Lady. New white flowering.

Pkt., 10c; 1/4 oz., 30c.

Cardinalis, Perennial. Taller than other sorts; flowers rich red.

Pkt., 10c.

LYCHNIS.

There are few plants that produce more brilliantly colored blossoms than Lychnis. They are borne in clusters and continue fresh and brilliant for a long time. Hardy perennials; one to three feet high.

Haageana Hybrida. Mixed. **Pkt., 10c;** 1/4 oz., 25c.

LUPIN, OR LUPINUS.

Very desirable shrubby plants, bearing long spikes of various colored flowers.

Annual Mixed.

Pkt., 5c; oz., 20c.

Perennial Mixed.

Pkt., 5c; oz., 25c.

MIGNONETTE.

A quick-growing annual, highly esteemed for its delicate fragrance. It grows most rapidly and produces the largest and finest spikes of blossoms during cool, moist weather of early spring and late fall months, but will flower freely throughout the summer from seed sown early in spring. A second planting should be made about the first of August to furnish large, fine spikes of flowers during the cool fall months.

Odorata Grandiflora. Large, well-formed, fragrant flowers.

Pkt., 5c; oz., 20c.

Machet. White Pearl; splendid new variety; best white. Pkt., 15c.

Machet. Dwarf; flowers red Pkt., 10c; ½ oz., 15c.

Parson's White. Flowers almost pure white; very fine.

Pkt., 10c; ½ oz., 15c.

Golden Queen. Dense dwarf growth; flowers golden yellow; deliciously fragrant.

Pkt., 10c; ½ oz., 15c.

Allan's Defiance. A choice strain for forcing. Spikes of enormous size and intensely rich perfume. One of the most desirable for open ground.

Pkt., 10c; ½ oz., 25c.

MIMULUS.

Moschatus, or Musk Plant. Cultivated for its rich, musky odor. Should have a rich soil and ample moisture. Hardy perennial.

Pkt., 10c.

Tigrinus Nanus, or Monkey Flower. Mixed, beautifully spotted, all colors

Pkt., 10c.



Mignonette.

MIMOSA, OR SENSITIVE PLANT.

Pudica. Very curious and interesting plant; its leaves closing if touched or shaken. Annual.

Pkt. 5c.

MOON FLOWER, OR IPOMOEA MEXICANA GRANDIFLORA.

Rapid growing climber belonging to the Morning Glory family. The flowers are large, waxy white and very showy.

Pkt., 10c; ¼ oz., 20c.

MORNING GLORY.

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. (See cut.)

Convolvulus Major. Tall, choice, single mixed, all colors.

Pkt., 5c; oz., 15c.

Double Mixed Tall.

Pkt., 10; oz., 25c.

Convolvulus Minor. Dwarf Mixed

Pkt., 5c; oz., 25c.

Imperial Japanese Fringed. These have very large fringed flowers in a great variety of the most exquisite colorings; handsome, variegated foliage. Mixed.

Pkt., 10c; oz., 25c.

Japanese Double Mixed. This double Japanese sort is very fine in leaf, flower and growth.

Pkt., 25c; oz., \$1.00.



Morning Glory.

MARIGOLD, OR TAGETES.

The French and African Marigolds are valuable for their flowers in summer, and can be grown to advantage in little clumps with other plants in the front of shrubberies or in the garden border. Color of flowers, yellow, red, brown and variegated. (See cut.) The African varieties are the taller in growth, and produce large, self-colored blossoms. The French varieties are smaller, some of them being elegantly striped and spotted.

African. Tall or dwarf, double mixed.

Pkt., 5c; oz., 40c.

French. Tall or dwarf, double mixed.

Pkt., 5c; oz., 35c.

NEMOPHILA (Love Grove).

Hardy annuals of neat, dwarf, compact growth; fine for borders, pot culture or rockeries. Flowers blotched and beautiful. Mixed varieties.

Pkt., 5c.

NIGELLA.

Love-in-a-Mist, or **Devil-in-the-Bush.** Compact growing, free flowering plants, with curious looking, showy flowers and finely cut foliage. Hardy annuals. Mixed.

Pkt., 5c.

NICOTIANA.

A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter. Half-hardy annual, three feet high.

Affinis. White.

Pkt., 5c.; ¼ oz., 25c.

Hybrida. Splendid mixed.

Pkt., 10c.; ¼ oz., 50c.



Marigold.

FRESH AND FINE—A GREAT JOY.

Hermiston, Ore., March 27, 1909.

Dear Sirs:

I bought Pansies from you last season and they came promptly, were fresh and fine and all grew and were a great joy until late in the Fall. Yours truly,

Mrs. H. G.

Atlatia, Wash., Mar. 15, 1909.

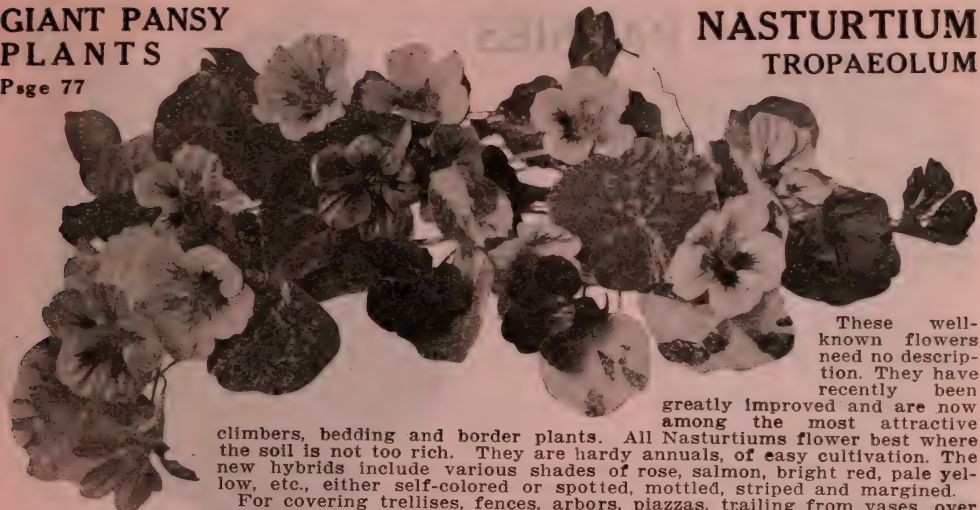
Gentlemen:

I tried your Flower Seeds last year, and every one that saw my flowers admired them, so you see I am sending for a few more this year. Yours truly,

Mrs. W. J.

**GIANT PANSY
PLANTS**

Page 77



**NASTURTIUM
TROPAEOLUM**

These well-known flowers need no description. They have recently been greatly improved and are now among the most attractive climbers, bedding and border plants. All Nasturtiums flower best where the soil is not too rich. They are hardy annuals, of easy cultivation. The new hybrids include various shades of rose, salmon, bright red, pale yellow, etc., either self-colored or spotted, mottled, striped and margined. For covering trellises, fences, arbors, piazzas, trailing from vases, over rockwork, etc., nothing can equal the gorgeous effect produced by their marvelous quantities of bloom, borne in uninterrupted splendor from early summer until cut down by frost.

THREE FINEST NEW DWARF VARIETIES

SNOW QUEEN—New, Fine for Borders.

Flowers white, with a creamy tint. Plants very, very dwarf and an admirable subject for bedding in conjunction with Blue Lobelia. Pkts., 10c. each; 1/2 oz., 25c.

“PRINCESS.”

This new dwarf ivy leaved Nasturtium has variegated foliage of great beauty, flowers are primrose with scarlet markings. A novel and most beautiful combination for pots, window boxes or bedding. Pkts., 15c; 1/2 oz., 35c.

“GOLDEN MIDNIGHT”

A unique and desirable type for bedding and pots. Foliage is golden and flowers darkest maroon. A striking and beautiful combination. Pkt., 10c; 1/2 oz., 25c.

FIRE FLAME.

New tall fringed Nasturtium. A splendid novelty of a new and distinct type. “Fire Flame” is a deep, fiery scarlet with edge of petals deeply cut and fringed; is of vigorous growth, and a very free bloomer. Be sure to add Fire Flame to your order. Pkts. only. Each, 20c.

IVY LEAVED (NEW).

This unique and most beautiful climbing Nasturtium now comes entirely true to type. The plants are of running growth with star-like pointed leaves of rich green, veined with white, so that the young shoots have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size, intense scarlet in color, and of most distinct form. Desirable not only as a bedding variety, but also as a basket or vase plant, where the trailing branches show off the beautiful foliage and star-like, scarlet flowers to the greatest advantage. Pkt., 10c; oz., 25c.

TALL OR CLIMBING NASTURTIUMS, LARGE FLOWERING.

- Zanderi Nigrum. Dark, rich red, almost black; very fine. Pkt., 5c; oz., 15c.
 - Golden Queen. New, finest and richest pure yellow. Pkt., 5c; oz., 15c.
 - Lilli Schmidt. Handsome, orange scarlet; large. Pkt., 5c; oz., 15c.
 - Crown Prince of Prussia. Flowers rich, dark blood red. Pkt., 5c; oz., 15c.
 - Giant of Battles. Light yellow, spotted with red. Pkt., 5c; oz., 15c.
 - Pearl. Cream white; very fine. Pkt., 5c; oz., 15c.
 - Vesuvianus. Salmon rose; leaves dark; fine. Pkt., 5c; oz., 15c.
 - Lobbianum. Choicest Mixed. The very finest flowering kinds, having a richness of color and a variety of brilliant shades and markings hitherto unknown. Pkt., 10c; oz., 20c; 1/4 lb., 40c.
 - Lobbianum. Fine Mixed. A very fine grade. Pkt., 5c; oz., 15c; 1/4 lb., 30c.
 - Tall Fine Mixed. Good mixture. Pkt., 5c; oz., 10c; 1/4 lb., 20c.
- SPECIAL**—Above collection of seven named sorts one packet each, for 25c.

DWARF OR TOM THUMB SORTS, LARGE FLOWERING.

- Dwarf Pearl. Almost pure white. Pkt., 5c; oz., 25c.
- Ruby King. Ruby red; fine form; dark leaved. Pkt., 5c; oz., 25c.
- Sunlight. Finest of yellows. Pkt., 5c; oz., 25c.
- Spotted King. Dark yellow, spotted with brown. Pkt., 5c; oz., 25c.
- Chameleon. New; cream white, spotted with bright scarlet, edged with dark scarlet; plant compact; leaves dark; a beautiful sort. Pkt., 5c; oz., 25c.
- Midnight. Dark leaved, compact bush; flower rich, dark, intense scarlet; very handsome; excellent for borders. Pkt., 5c; oz., 25c.
- Dwarf Mixed. Finest varieties. Pkt., 5c; oz., 15c; 1/4 lb., 30c.

SPECIAL—The above collection of seven packets for 25c—**SPECIAL.**

PANSIES

Our Pansy Seeds are imported direct from the leading pansy specialists of Europe and are the best selections from the new, and improved standard types; being absolutely the finest seed obtainable. For early outdoor bedding seed should be sown in the early fall, in rich moist garden soil or in cold frames. Spring sowings should be made early.

OUR GOLD MEDAL COLLECTION GIANT PANSIES FOR 1910

One Pkt. each of the 10 Varieties, \$1.00.

ADONIS—A distinct and beautiful shade of light blue with white center and dark blotch, a most pleasing and attractive variety. **Pkt., 10c.**

BRIDESMAID—A beautiful clear white with shining rose colored blotch; a rare and desirable new pansy of the largest size. **Pkt., 15c.**

FIRE KING—Lower petals margined white, with large magenta blotch that has a yellow margin; upper petals bright reddish bronze. **Pkt., 10c.**

GOLDEN QUEEN—A rich pure yellow of the grandest form and size. A valuable addition to the yellows, which are very hard to produce in the Giant strains. **Pkt., 10c.**

GIANT DARK BLUE—A splendid blue black, very elegant, and of good substance; should be grown by everyone. **Pkt., 10c.**

GIANT STRIPED—A superior strain of truly giant pansies, with the most beautiful striped markings in the richest dark shades. Very popular in Europe. **Pkt., 10c.**

MADAME FERRET—A beautiful and distinct type with edges of petals frilled—bordered white, colors are dark wine—pink and red, beautifully veined. The strain we offer is greatly improved; a most desirable sort. **Pkt., 15c.**

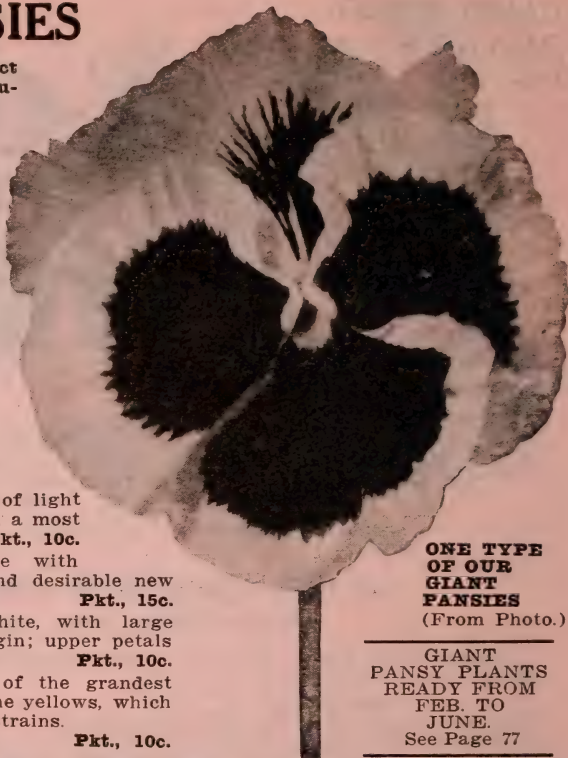
POPULAR LARGE FLOWERING SORTS.

EMPEROR WILLIAM—A dainty cornflower blue, very showy; a splendid variety of large size and good substance. **Pkt., 10c.**

KING OF THE BLACKS (Giant)—Immense velvety black flowers of the finest quality; the largest and best black pansy. **Pkt., 10c.**

PRINCE BISMARCK—Light brown shades with black eye very beautiful and distinct; true giant variety. **Pkt., 10c.**

PRINCE HENRY—A new giant variety, of a brilliant, dark indigo blue, with violet luster, each petal having a large dark brown, veined blotch. Edges of petals, slightly ruffled. **Pkt., 15c.**



ONE TYPE
OF OUR
GIANT
PANSIES
(From Photo.)

GIANT
PANSY PLANTS
READY FROM
FEB. TO
JUNE.
See Page 77

RUBY KING—Rich shades of red, a superb variety, of fine form and substance. **Pkt., 15c.**

SNOW FLAKE—A grand pure white, of extra fine quality. **Pkt., 10c.**

VULCAN—A magnificent new dark glowing red with 5 large black spots; blooms of perfect form and great substance, but its chief value lies in the superb coloring which has never been attained before. Be sure to try "Vulcan." **Pkt., 25c.**

MASTERPIECE—GIANT RUFFLED—The truly giant-sized flowers of this wonderful Pansy are of the most distinct and striking character. The mammoth size, richness and beauty of colorings combined with the handsomely frilled or ruffled character of the petals, make the Masterpiece one of the most distinct and interesting novelties in Pansies ever developed. **Pkt., 25c.**

TRIMARDEAU GIANTS—Of remarkably large size and robust growth; very fine. **White, Yellow, Striped, Black, Blue or Mixed. Pkt., 10c.; ¼ oz., 75c.; oz., \$2.50.**

Portland Seed Co.'s FANCY STRAINS OF MIXED PANSIES.

ELITE LARGE FLOWERING MIXED.

This superb collection cannot be surpassed for size, shape, markings or richness of color of the flowers. No pains are spared by our German grower to make this strain absolute perfection in form, firmness of texture, size, freedom of bloom, and elegance and variety of markings and colorings. There is no mixed Pansy seed offered superior to this. **Pkt., 25c.; ½ oz., \$1.00; ¼ oz., \$1.50.**

Cassier. A very fine mixture; flowers large and marked with three or five blotches. **Pkt., 25c.; ½ oz., 75c.**

Odier or Blotched. Superb, large flowers, beautifully blotched with rich and varied colors. Extra mixed. **Pkt., 25c.; ½ oz., 75c.**

Parisian, Largest Spotted. New, very large flowering; very handsome. **Pkt., 25c.; ½ oz., 75c.**

Bugnot. Flowers of enormous size, blotched and veined; the shadings comprise tints of red bronze and brown not found in any other mixture. **Pkt., 25c.; ½ oz., \$1.00.**

Fine Mixed. A fine assortment of colors. **Pkt., 5c.; ¼ oz., 50c.; oz., \$1.25.**



Pentstemon.

PASSION FLOWER, OR PASSIFLORA.
Most interesting and well-known climbers, bearing singularly beautiful flowers.

Mixed Pkt., 10c.

PAMPAS GRASS, or Gynierum Argenteum.
A noble ornamental grass, easily grown from seed, producing majestic plumes, that are invaluable for winter decoration. Pkt., 5c.

PERILLA NANKINENSIS.
Dark purple foliage plant. Half-hardy annual. Pkt., 5c.

PENTSTEMON.
Beautiful, hardy, perennial, herbaceous plants, with extremely brilliant blooms. Their bell-shaped flowers are borne on long spikes, and are produced abundantly all summer.
Mixed Pkt., 5c; ¼ oz., 35c

We have unlimited quantities of Flowering Plants in season. See Plant Department.



Phlox Drummondii.

PHLOX DRUMMONDII.

The blooms of Phlox Drummondii are unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. They are abundant, almost covering the foliage, and of long duration. Very desirable, and easily grown. For cutting for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high. (See cut.)

Choice Mixed Pkt., 5c; ¼ oz., 50c.
Large Flowering. Mixed; flowers large and brilliant Pkt., 5c; ¼ oz., 60c.
Large Flowering. Scarlet or white Pkt., 5c; ¼ oz., 75c.
Dwarf. Mixed; finest flowering sorts Pkt., 10c; ½ oz., 50c.
Star Phlox (Cuspidata). Flowers have a distinctive star-like appearance, with white margins, excellent for bouquets Pkt., 10c.



Pink.

PHLOX DECUSSATA.

Hardy, perennial; mixed Pkt., 10c; ½ oz., 50c.

PETUNIA, HYBRIDA.

Too much cannot be said in praise of the Petunia as a bedding plant. Our clear, bright summers seem to bring out its best qualities. During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy annual. Large assortment.

Single Fine Mixed Pkt., 5c; ½ oz., 25c.
Single Choicest Mixed. Saved from the best flowers Pkt., 10c; ½ oz., 50c.
Single Fringed Mixed. Large flowered; very desirable. Pkt., 25c.
Double Choicest Mixed. Full and handsome. Pkt., 25c.
Double Fringed Mixed Pkt., 25c.

PINK, OR DIANTHUS.

The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates.

Chinensis. Single mixed. Pkt., 5c; ¼ oz., 25c.
Chinensis. Double mixed. Pkt., 5c; ¼ oz., 25c.
Heddewigii. Color varies from richest velvety crimson to delicate rose. Single mixed. Pkt., 5c; ¼ oz., 25c.
Heddewigii. Double mixed, large flowering, splendid. Pkt., 10c; ¼ oz., 50c.

Heddewigii Laciniatus. Fine, single and double fringed, finest assorted colors. Pkt., 10c; ¼ oz., 50c.
Heddewigii Diadematus. Double Diadem Pink. Extra fine. Pkt., 5c; ¼ oz., 25c.
Heddewigii Fireball. Extra double, brilliant dark scarlet. Very beautiful. Pkt., 10c; ¼ oz., 50c.
Laciniatus Alba Plena, Snowdrift. Handsome, double white. Pkt., 10c; ¼ oz., 50c.

PHORMIUM, OR NEW ZEALAND FLAX.

Tenax. Has handsome, variegated foliage. Pkt., 10c; ¼ oz., 50c.

PORTULACA, OR ROSE MOSS.

Brilliant, dwarf annuals, only six inches high, luxuriating in warm situations, and blooming profusely from early summer to autumn. For low beds and masses of color from spring until frost, they are indispensable; colors range through innumerable shades of red, yellow, pink, striped, white, etc.

Single Mixed Pkt., 5c; ¼ oz., 25c.
Double Mixed Pkt., 10c; 1-16 oz., 25c.

PYRETHRUM.

Very ornamental plants, for both foliage and flowers.

Parthenium Aureum, or Golden Feather. Beautiful, gold leaved, flower white. Pkt., 10c.
Selaginoides. Fine, fern-leaved sort; flowers bright, golden yellow Pkt., 10c.



Portulaca.

POPPY, OR PAPAVER.

The Poppy is well known and really a magnificent flower which is borne separately on tall stalks. Poppies are very showy and come in many bright and charming colors. They are hardy annuals, and may be sown where they are to remain, as soon as the ground can be prepared.

Double Carnation Flowered. Fringed; colors are dazzling. Mixed.....
Pkt., 5c.; oz., 25c.

Shirley. The range of color, extending from white, through delicate shades of pink, rose and carmine, to deepest crimson; fine for cutting. Best Single Mixed.....Pkt., 10c.; ¼ oz., 25c.

Iceland, or Nudicaule. 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 yellow, white or orange-scarlet flowers in endless profusion and most useful for cutting; hardy perennial. (See cut.) Mixed Colors...Pkt., 10c.; ¼ oz., 40c.

Miss Sherwood. Petals satiny white, shading to chamois rose. Very beautiful and distinct...Pkt., 10c.; oz., 40c.

Double Scarlet or White.Pkt., 5c.; oz., 25c.

Double American Flag. White, bordered with scarlet.....Pkt., 5c.; oz., 30c.

Umbrosom. Rich vermilion, with a glossy, black spot on each petal; single.....
Pkt., 5c., oz., 30c.

Bracteatum. Hardy perennial; very showy redPkt., 5c.; ¼ oz., 20c.

California Poppy. See Eschscholtzia, page 57.



Primula Sinensis.

PRIMULA, or Primrose.

The first three 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. (See cut.)

Polyanthus. Early blooming, dwarf growing plants. Valuable for outdoor bedding. Mixed colors...Pkt., 10c.; 1-16 oz., \$1.00.

Vulgaris. Yellow, common, English Primrose.....Pkt., 10c.; ½ oz., \$1.00.

Japonica, or Japanese Primrose. The beautiful, large, various colored flowers stand in whorls, pyramically arranged on short flower stems; one foot high; though perennial, new plants flower more freely, and seed should be sown every year. Mixed varieties..Pkt., 15c.; 1-16 oz., \$1.00

Sinensis, or Chinese Primrose. The beautiful, large fringed flowers stand in pyramids arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers. (See cut.) Finest mixed
Pkt., 25c.; 1-32 oz., \$2.00.

Sinensis. Pure white or red.....Pkt., 25c.

Sinensis. Alba. New; finest large white....
Pkt., 50c.

Sinensis. Double finest mixed...Pkt., 50c.

Obconica Grandiflora. A lovely profuse bloomer, bearing beautiful single flowers. This is really an ever-blooming plant, producing elegant clusters of flowers continuously throughout the year.....
Pkt., 10c.; 1-16 oz., \$1.50.

PRIMROSE, EVENING, or Oenothera.

The Oenothera, or Evening Primrose, produces large, showy blossoms, which are fully expanded only during the evening and early in the morning. The flowers, which are from three to four inches across, attract much attention on account of their size, beauty and the rapidity with which they open. They are constant and prolific bloomers.

Fine Mixed.....Pkt., 5c.; ¼ oz., 25c.

SALVIA, or Flowering Sage.

Very ornamental; flowers borne in spikes of fiery red or crimson, and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil, one to two feet apart. Excellent for bedding in masses or single planting. Hardy annuals.

Salvia Zurich, New Dwarf Early. The finest of all Dwarf Salvias. Very floriferous..

Pkt., 15c.



Iceland Poppies.

Salvia Splendens. Brilliant Scarlet.....
Pkt., 10c.; ¼ oz., 50c.

Bonfire (Clara Bedman). One of the finest Salvias ever introduced; compact bush about two feet in height and diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark green foliage and completely cover the plant.....

Pkt., 15c.; ¼ oz., \$1.00.

For Salvia Plants, see Plant Department.

SALPIGLOSSIS.

Produces very showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals.

- Fine Dwarf Mixed**.....Pkt., 5c.; ¼ oz., 25c.
- Grandiflora. Mixed.** Large floweringPkt., 10c.; ¼ oz., 35c.

SAPONARIA.

Pretty, dwarf bedding plants. Red, white and scarlet flowers. Hardy annuals.

- Fine Mixed**Pkt., 5c.

SCHIZANTHUS.

Beautiful, garden annuals, flowers charmingly fringed and delicately colored; one to two feet.

- Mixed Colors**Pkt., 5c.; ¼ oz., 15c.

SCABIOSA.

Sweet Scabious, or Mourning Bride.

Free-flowering annuals; colors, white, carmine, lilac, maroon, etc. Very effective for garden decoration and valuable for cutting; one foot.

- Dwarf or Tall Double Mixed.**Pkt., 5c.; ¼ oz., 15c.

SMILAX.

Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. (See Plants.).....Pkt., 10c.; ¼ oz., 25c.

SNAPDRAGON, or Antirrhinum.

One of the most useful and showy of border plants, of almost every color, and striped as beautifully as Carnations. They have recently been much improved and are now really magnificent. Hardy perennial.

- Tall, Finest Mixed**.....Pkt., 5c.; ¼ oz., 20c.
- Dwarf, Finest Mixed**.....Pkt., 5c.; ¼ oz., 20c.
- Pure White. Dwarf**.....Pkt., 10c.; ¼ oz., 30c.
- Firefly. Dwarf; scarlet** Pkt., 10c.; ¼ oz., 30c.

STOCKS—Double Ten Weeks.

These popular flowers are easily grown, and are so highly fragrant and of such beauty that they deserve a place in every garden. They are great improvements over the Gilliflowers of the olden times, being much larger and more densely double, and of a much larger variety of colors.

- Dwarf Large Flowering.** White, Scarlet, Rose, Light Blue or MixedPkt., 10c.; ½ oz., 50c.
- Emperor, or Perpetual. Mixed**Pkt., 10c.; 1-16 oz., 50c.
- Winter, or Brompton.** MixedPkt., 10c.; 1-16 oz., 50c.
- Giant Perfection.** Handsome pure white.Pkt., 15c.; ½ oz., 75c.
- Giant Perfection.** Double mixedPkt., 10c.; ½ oz., 50c.

SUNFLOWER, or Helianthus.

Stately growing annuals with immense golden yellow flowers; effective for garden decoration.

- Double Dwarf.** Covered with three-inch double flowers of bright-est golden yellow.Pkt., 5c.; oz., 20c.
- Globoseus Fistulosus.** Saffron, very large, double and handsome Pkt., 5c.; oz., 25c.
- Multiflora.** Beautiful, double yellow flowers. Pkt., 5c.; oz., 25c.
- Mammoth Russian.** See Field Seeds.

SWEET WILLIAM, or Dianthus Barbatus.

A well-known, remarkably free-flowering plant, of brilliant colors, ranging from snow white to darkest crimson and purple. They emit a very delicate and refreshing fragrance. Hardy perennial.

- Single Mixed.** Very beautiful.Pkt., 5c.; ¼ oz., 25c.
- Pure White. Single**Pkt., 5c.; ¼ oz., 25c.
- Dunnetti.** Dark crimson, single.Pkt., 5c.; ¼ oz., 30c.
- Double Mixed.**Pkt., 10c.; ¼ oz., 40c.

SWEET SULTAN, or Centaurea.

Favorite annual of easy culture. Showy for the garden and greatly prized for bouquets. The large heads of bright flowers are very fragrant; 1½ feet.

- Mixed Colors.** Purple, White, etc.Pkt., 5c.; ¼ oz., 15c.

SWEET ROCKET, or Hesperis.

An old hardy garden favorite. Fragrant white flowers; 2 to 3 feet.Pkt., 5c.; ¼ oz., 20c.

THUNBERGIA.

Rapid-growing annual climbers; splendid for trailing over trellises, fences, etc.; beautiful flowers borne in profusion; buff, white, orange, etc.; 4 to 6 feet high.

- Mixed Colors**Pkt., 5c.; ¼ oz., 25c.

TRITOMA.

Sometimes called Red Hot Poker. This is a fine, handsome plant. It is hardy, though requiring some protection through the winter. The flowers are produced in large spikes of brilliant, rich flowers. Cut flowers keep a long time. Half-hardy perennial.

- Uvaria.** Dazzling orange red.Pkt., 15c.

VINCA.

Tender perennial. Fine for pot culture. Flowers white and pink. **Mixed**Pkt., 10c.



TRUE IRISH SHAMROCK Plants in season, 25c each.

NEW STOCK—Princess Alice
Large flowering white, fine for cutting. Extra large spike ... 15c.

SHAMROCK.

True Shamrock Seed is very rarely offered for sale in this country. It is a hardy perennial and will thrive in any good garden soil.

Price, pkt. of 50 Seeds, 25c.

STATICE, OR SEA LAVENDER.

Beautiful for winter bouquets; flowers very pretty.

- Annual Varieties. Mixed**Pkt., 5c.
- Perennial Varieties. Mixed**Pkt., 5c.

STIPA PENNATA.

Feather Grass. Grown for their plumes.Pkt., 10c.



Stocks.



Tritoma.

SWEET PEAS

SWEET PEAS are a great specialty with us and our expert growers are constantly improving the standard varieties and trying out the newer ones, selecting only those of special merit that are real improvements in color, form and substance.

The extraordinary advance in the development of Sweet Peas makes them the most beautiful and useful flower for general culture, as they are easily grown and last through a long season.

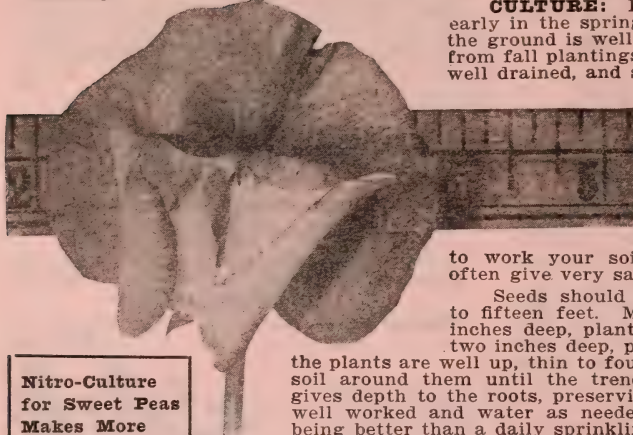
We offer the following splendid list of the newest and best varieties—true to name.

WE DO NOT SUBSTITUTE.

CULTURE: First and most important, plant as early in the spring as the conditions will permit. If the ground is well drained earlier flowers can be had from fall plantings. The ideal soil is cool, moist, and well drained, and should be dug up the previous fall, manure well worked in, and left to lie in the rough through the winter. In the early spring work this down enough to plant, which can be done before conditions will permit working of ground that has not been previously prepared. This gives an earlier and better start than if you wait until spring to work your soil, but late spring plantings will often give very satisfactory results in some sections.

Seeds should be sown at the rate of one ounce to fifteen feet. Make a trench about three or four inches deep, planting the seeds in the bottom about two inches deep, pressing the soil down firmly. After the plants are well up, thin to four or five inches apart and draw the soil around them until the trench is filled above the level. This gives depth to the roots, preserving the moisture. Keep the ground well worked and water as needed, an occasional thorough soaking being better than a daily sprinkling. Keep the flowers cut close and a pruning of the tips of the vines will also aid in prolonging the season of bloom and insuring better flowers.

"GEORGE HERBERT"
Special Strain
of Our Own
Growing.



Nitro-Culture
for Sweet Peas
Makes More
and Better
Flowers.
See page 52

GOLD MEDAL COLLECTION FOR 1910 12 RARE NEW SPENCERS

Special—One Packet of Each—12 Varieties—\$1.50 Post Paid.

The new "Spencer" type has lovely waved and fluted flowers of gigantic size, and, in exquisite coloring, length of stem and lasting qualities, are much superior to the older types. "Spencers," however, are very shy seeders and require much careful selection to develop fixed types. The seed is therefore scarce and cannot be cheaply produced. The stock of new varieties in packets is very limited and orders should be sent in at once.

Apple Blossom Spencer. A truly giant flower; color, standard rose with deeper veining, wings light carmine, ground color, primrose.

Price, Pkt., 15c.; ½ oz., 25c.; oz., 40c.

Asta Ohn. Lavender, suffused with mauve; of perfect form, largest size, 4 blossoms on long, strong stems; very vigorous; the best lavender ever produced.

Price, Pkt., 15c.; ½ oz., 25c.; oz., 40c.

Audrey Crier. A beautiful distinct variety; standard and wings buff and blush, beautifully margined and shaded light rose.

Price, Pkts. only, 15c.

Carmine Spencer. Our own selection, a deep rosy-carmine of largest size, open form, beautifully waved; is much larger than the original strain, and has longer stems, flowers well-set; is very vigorous and floriferous.

Price, Pkts. only, 25c.

Clara Curtis. A Primrose Spencer of the finest form, large size and a deeper shade than Primrose Spencer. A rare and beautiful color.

Price, Pkts. only, 15c.

Helen Scott. Our new giant white, Helen Scott, is the finest white Sweet Pea to date, is of glorious open form, wings and standards beautifully poised, a true Spencer of the largest size, blossoms often measuring 2¼ inches and borne three and four on long, strong stems. Every grower should plant this finest white Sweet Pea.

Price, Pkts. only, 15c.

Geo. Herbert. Our own select strain; a bright rosy-carmine, open form, beautifully waved; a magnificent, vigorous Sweet Pea of giant size; the long stems carry three and four perfect flowers. (See cut.)

Price, Pkt., 15c.; ½ oz., 25c.; oz., 40c.

King Edward Spencer. Bright crimson scarlet, largest size, wavy standard, drooping wings, very long stems; one of the finest bright reds.

Price, Pkts. only, 15c.

Mrs. Rautzahn. Color, a soft straw tinted with blush-pink, shading to apricot and rose at the edges, with a distinct rose margin; of immense size; one of the finest Spencers.

Price, Pkt., 15c.; ½ oz., 25c.; 1 oz., 40c.

Othello Spencer. Very deep maroon of largest Spencer type; wings very wavy, large and drooping; the finest of its color. (Cut on page 67.)

Price, Pkt., 25c.; ½ oz., 50c.; oz., \$1.00

Ramona Spencer. Pure white with light carmine and blush stripes; large, good form, free-flowering.

Price, Pkt., 15c.; ½ oz., 30c.; oz., 50c.

St. George. A magnificent new Pea with brilliant orange standard, the large wings being a distinct orange-carmine; does not burn in the sun, and is the finest of all the orange shades. While St. George did not come from the Spencer types, it shows their characteristics and can well be classed with them. We especially recommend it to our customers.

Price, Pkt., 15c.; ½ oz., 30c.; oz., 50c.

SEVEN FINE "SPENCERS"

Primrose Spencer. The first Primrose of the Spencer type, and a worthy companion to the white Spencer; when shown together each adds to the beauty of the other; the creamy yellow of the Primrose Spencer being deepened and enhanced by the snowy whiteness of the magnificent white Spencer. Primrose Spencer is very vigorous, free-flowering and excels in beauty of form, length of stem and keeping qualities.

Price, Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Burpee's White Spencer. A pure white flower of enormous size. Standard beautifully crinkled and fluted, and the broad wavy wings over an inch in width are fully as deep as the standard, and are of splendid substance, being good keepers when cut.

Price, Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Countess Spencer—Pink. The first Sweet Pea of the Spencer type. Originated in England, with the gardener of the Countess Spencer. Flowers extremely large, beautifully expanded, crumpled and waved. Color silvery white, suffused and tinted with soft shell pink, deeper at the outer edges.

Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Florence Morse Spencer. Delicate blush with pink margin; very large, open, wavy form of the finest Spencer type; might be called an improved Countess Spencer.

Price, Pkt., 10c.; ½ oz., 15c.; oz., 25c.

Helen Lewis. A giant flower of perfect form; standard rich crimson orange wings, orange rose; open form, full, wavy; a beautiful, distinct variety. Price, Pkt., 10c.; ½ oz., 20c.; oz., 35c.

Lovely Spencer. Standard and wings of light blush pink with blotch of rose at the base; entire flower suffused with soft buff; a truly lovely Sweet Pea. Price, Pkt., 15c.; ½ oz., 30c.; oz., 50c.

Paradise. The most beautiful of the light pinks, an improved Countess Spencer, producing under ordinary cultivation a large portion of its flowers four to the stem, of grand size and substance, finely expanded and beautifully waved, perfectly self-colored, being evenly suffused with the most delicate soft pink; a vigorous grower, long stems.

Price, Pkt., 10c.; ½ oz., 25c.; oz., 40c.



"OTHELLO SPENCER"

SEVEN BEST "UNWIN" TYPES.

The "Unwins," resemble the Spencer type, although being of entirely different origin. They are not quite so large as the Spencers, but of fine form and substance, very vigorous and free-flowering, and always come true, do not sport like the Spencer type.

Chrissie Unwin. Beautiful cherry scarlet, self-color, wavy standard, finest form.

Price, Pkt., 10c.; oz., 40c.

E. J. Castle—Crimson Rose. A magnificent open form flower of grandest size and unique coloring, being a rose crimson veined deeper rose, its brilliancy being enhanced by artificial light; fluted border.

Price, Pkt., 10c.; oz., 25c.

Phyllis Unwin—Deep Rose. The largest of the Unwin types, beautifully waved and crinkled, standard upright, wings broad. Flowers 3 to 4 on long stems. Color a rare shade of deep rose self-color. Phyllis Unwin is a fixed type and will come true from seed.

Price, Pkt., 5c.; oz., 25c.

Frank Dolby. Color delicate light lavender of great beauty, bold, wavy standard with widely spreading fluted wings.

Price, Pkt., 10c.; 1 oz., 40c.

Nora Unwin—White. A grand new pure white of the same beauty of form, waved and fluted standard and wings, as Gladys Unwin. Flowers of grand substance, borne three on long stems. This pea was given an award of merit at the trials of the N. S. P. S., Reading, England, and is one of the finest whites ever known.

Price, Pkt., 10c.; oz., 25c.

Gladys Unwin—Light Pink. A large, bold flower, not hooded, but with standard and broad wings. Of the new orchid-flower type, this is similar to Countess Spencer, but several shades lighter in its lovely pink color.

Pkt., 5c.; oz., 15c.

Mrs. Alfred Watkins. Color of standard pink, shading to buff and blush at edges. Wings blush shading to rose edge. Magnificent flowers of large, open, wavy form. A splendid new Pea.

Price, Pkt., 10c.; oz., 25c.

SIX SUPERB LARGE-FLOWERING SWEET PEAS.

All New Colors, of Rare Beauty.

Special, Entire Collection of 6 Pkts., 50c.; 6 oz. Pkts., \$1.00.

Black Bird. Deepest maroon with a suffusion of intense violet, one of the darkest varieties; a splendid vigorous Sweet Pea of largest size.

Price, Pkt., 10c.; oz., 25c.

Boltons Pink. A rare orange pink of great brilliancy and beauty, not injured by the sun; blossoms of immense size and perfect form borne near the end of the long, strong stems. Vines rather low and stocky; a distinct variety.

Price, Pkt., 10c.; oz., 25c.

Helen Pierce. The most beautiful bright shade of true blue mottled on a brilliant pure white ground; 3 or 4 blossoms on long stem. A grand flower of the largest size; very free and vigorous.

Price, Pkt., 10c.; oz., 25c.

Henry Eckford. A distinct orange scarlet of the finest form and largest size; as beautiful under artificial light as in daylight. A grand, vigorous, free-blooming variety, the only one of its color.

Price, Pkt., 10c.; oz., 20c.

Lord Nelson, or "Brilliant Blue." A brilliant dark navy blue with tips of wings a lighter blue. Giant flowers, slightly hooded, borne 3 and 4 on long, strong stems; a vigorous grower and a new color in Sweet Peas.

Price, Pkt., 10c.; oz., 20c.

Queen Alexandra. An intense bright scarlet of grand substance; a bold, robust flower of giant size and finest form, borne on long, strong stems; is sun-proof, very vigorous and free-flowering.

Price, Pkt., 10c.; oz., 20c.

SELECT LIST OF FINEST LARGE FLOWERING SWEET PEAS, THE BEST OF THEIR COLOR AND TYPE.

FOR YOUR CONVENIENCE we have grouped the following varieties under their colors.

PRICES

All varieties, except where otherwise stated, 5c. per pkt.; 10c. per oz.; 20c. per $\frac{1}{4}$ lb.; 60c. per lb., postpaid. **PRICES**

WHITE.

Blanche Burpee. A grand large flower of beautiful form; firm, lasting substance and snowy whiteness; flowers on long, stiff stems.

Dorothy Eckford. Pronounced by Sweet Pea experts to be the grandest pure white yet seen of the grandiflora type. Grows an enormous mass of bloom.

PINK AND WHITE.

Earliest of All. An improved strain of the very popular Blanche Ferry, beginning to flower fully a week earlier.

Blanche Ferry. Standard wide and erect, bright rose-pink; wings are creamy white, tinted with rose.

ROSE—Rich Shades.

Lord Rosebery. Fine form and substance; very free-flowering and robust. The flowers borne on long stems, are of a rose carmine, showing veins of deeper rose.

Lord Kenyon. A fine, large flower, bright rose-pink, shaded at the edges of the standard and wings, with distinctly richly colored veinings.

Royal Rose. Deep rosy pink, with wings of a lighter shade; flowers of largest size and fine form.

RED AND SCARLET.

King Edward VII. A lovely, intense crimson. A truly giant-flowered variety. The finest crimson to date. Strong stems and growth.

Mars. An intense glowing scarlet.

Prince of Wales. Rose crimson, fine sort.

Salopian. One of the finest scarlets; of largest size and fine form.

Scarlet Gem. The color is almost dazzling scarlet, beautiful, bright and clear. Strong growth, free-flowering.

DARK RED AND MAROON.

Black Knight. Large size; a rich, dark claret, almost black; somewhat veined.

Duke of Sutherland. Deep claret, with strong reddish tinge, deepening to rich purple.

Duke of Westminster. Grand, large flowers. A beautiful shade of rosy claret.

Othello. A deep maroon self-color; very large.

PINK—Deep Shades.

Apple Blossom. Large, beautifully hooded; shaded and edged with soft rose on silvery white.

Janet Scott. A large grand flower; deep, rich pink.

Jeanie Gordon. Very attractive; bright rose, shaded cream; slightly hooded; flowers large.

PINK—Light Shades.

Countess of Lathom. Fine, large flowers. A soft, cream tint heavily shaded with soft flesh-pink in the center of the standard and wings, shading much lighter at the edges.

Dainty. Large flowers, white with pink edge.

Katherine Tracy. Soft rosy pink, lighter at edges. A fine large flower, and of strong, vigorous growth.

Lovely. The most beautiful shades of soft shell-pink, changing to very light rose at the outer edges. Grand flowers of large size.

Modesty. A very soft beautiful shade of dainty light pink.

Prima Donna. A most beautiful bright shade of blush-pink. Flowers of large size and finest form.

ORANGE AND SALMON.

Gorgeous. Deep salmon-orange. The coloring is intensely brilliant.

Lady Mary Currie. Large, salmon-pink, shaded with carmine; finest of its color.

Miss Willmott. Described as an "orange-pink" delicately shaded rose. Enormous flowers borne erect on long, stiff stems. Truly a handsome and very pleasing variety.

Venus. Lovely salmon-buff, shaded with rosy pink. Fine, large flowers.

LAVENDER AND LIGHT BLUE.

Countess of Radnor. Fine size and form. A beautiful shade of light lavender.

Flora Norton. A beautiful rich lavender, free from mauve or pink; large.

Lady Griseld Hamilton. Most attractive light lavender shading; flowers of large size.

BLUE AND PURPLE.

Captain of the Blues. The flowers have the appearance of being a true blue.

Mrs. Geo. Higginson, Jr. A new shade, "sky blue"; good size.

Navy Blue. Large flowers, deep, glowing violet-purple, having the effect of a dark navy blue.

Romolo Piazzini. A rosy purple, quickly changing to intense violet blue; the only Pea of its color; a grand variety.

THEY WERE GRAND

Sand Point, Idaho, March 16, 1909.

Dear Sirs:

My Sweet Peas, ordered from you last year, this same selection, were grand.

Yours truly,

MRS. HENRY S. LEE.

BLUE AND WHITE.

Lottie Eckford. Large silvery-white flowers, beautifully shaded, and edged with soft lavender.

Maid of Honor. Flowers beautifully shaded with light blue on a white ground and boldly edged; deep rich violet; very dainty.

CREAM OR LIGHT YELLOW.

Golden-Rose. The large flowers are of fine open form, with standard gracefully fluted. A clear primrose-yellow, beautifully flushed with rosy pink.

Hon. Mrs. E. Kenyon. Rich, primrose. A bold, giant flower. The best in this shade.

Mrs. Eckford. Quite large size. A beautiful shade of light primrose-yellow; fine for cut flowers.

Mrs. Collier. Beautiful self-color primrose, entirely free from pink; one of the finest.

Sybil Eckford. A unique shade of apricot-lem; one of the finest Eckfords.

STRIPED AND VARIEGATED.

Aurora. Flowers large; beautifully flaked orange-salmon on a creamy-white ground.

America. Bright red on a silvery white ground; showy.

Jessie Cuthbertson. Creamy white striped rich rose; large.

DOUBLE SWEET PEAS.

Mixed. These have two to three standards and frequently three wings. The petals are beautifully incurved and frilled.

Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.00.

Phenomenal. This variety is practically a double Lottie Eckford, being white shaded and edged with blue. The blossoms are large and nearly always double.

Pkt., 10c.; ½ oz., 15c.; oz., 25c.

CUPID OR DWARF SWEET PEAS.

These grow from four to six inches high, and are beautiful grown in pots or planted for borders.

White, Pink, Scarlet, Primrose, Lavender, Striped, Maroon or Mixed.

Pkt., 5c.; oz., 15c.; ¼ lb., 40c.

SWEET PEAS IN MIXTURE.

DIAMOND MIXTURE.

This is the most perfect blend of the finest named varieties it is possible to produce. As formerly, this mixture will contain the novelties of the preceding season, and the addition of the rare Spencer types will complete the grandest mixture of new large-flowering Sweet Peas ever grown. It will delight the most critical; if you are undecided as to the varieties or colors you want, buy the "Diamond Mixture."

Sold in 1 oz. sealed pkts. only, at 15c. each; two for 25c.; 5 for 50c.; 12 for \$1.00. Not sold in bulk.

Special Mixtures to Order.

If you want to produce any special effect or color scheme, let us know your requirements. We can supply the correct color or mixture.

Extra Mixed. Select standard varieties of the finest colors.

Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; ½ lb., 30c.; lb., 40c.

OUR SUPERB MIXTURE.

True Spencers Only.

A splendid mixture, carefully proportioned and blended to produce pleasing and harmonious combinations of color, containing the most beautiful shades and variations of the wonderful Spencer types. **These are not seedlings, but carefully selected named varieties that retain all their purity and brilliancy of color.**

Price, Pkt., 25c.; oz., 50c

PERENNIAL PEAS.

Or Lathyrus Latifolius.

In general appearance these are the same as Sweet Peas, but the flowers are not so fragrant, they bloom through a long season, are perfectly hardy and will live for years.

Red, White or Mixed . . . Pkt., 10c.; oz., 35c.

VERBENA.

Very few annuals will make such a gorgeous display during the summer months, or furnish more flowers for cutting, than the Verbena. Start seed in the house or under glass early in the spring, and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost.

Hybrida Choicest Mixed. Very finest.

Pkt., 10c.; ¼ oz., 50c.

Mammoth Mixed. Selected; extra large, fine.

Pkt., 15c.; ¼ oz., 75c.

Fine Mixed. Pkt., 5c.; ¼ oz., 25c.

Candidissima. Pure white. Pkt., 10c.; ¼ oz., 50c.

Scarlet Defiance. Fiery scarlet. Pkt., 10c.; ½ oz., 50c.

Pink Shades. Pkt., 10c.; ¼ oz., 50c.

Coerulea. Bright blue. Pkt., 10c.; ¼ oz., 50c.

Lemon Verbena.

Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower.

Pkt., 10c.

VISCARIA—Rose of Heaven.

Their profuseness of bloom will always rank them among general favorites.

Fine Mixed Pkt., 5c.

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.

The Czar. Finest forcing Violet. Very large, dark blue. Pkt., 25c.; ½ oz., \$1.00

Odorata Blue. Very fragrant Pkt., 10c.; ½ oz., 50c.

Odorata White. Very fragrant Pkt., 10c.; ½ oz., 50c.

Odorata. Finest mixed Pkt., 10c.; ¼ oz., 75c.

Valeriana.

Fine border plants; sweet scented flowers.

Fine Mixed Pkt., 5c.

Virginian Stock.

A fine, early flowering plant. Hardy annual.

Mixed Pkt., 5c.; ¼ oz., 15c.

WALL FLOWER.

(Cheiranthus Cheri.) Produces spikes of beautiful, exceedingly fragrant flowers. Half hardy perennial.

Cloth of Gold. Large, fine, single. Pkt., 10c.; ½ oz., 35c.

Goliath. Single, extra large, fine dark brown, very early; fine for forcing Pkt., 15c.; ½ oz., 50c.

Mixed. Single, large flowering. Pkt., 5c.; ½ oz., 25c.

Parisian Forcing. Single Pkt., 10c.; ½ oz., 35c.

Finest Double Mixed. Branching. Pkt., 10c.; ½ oz., 75c.

ZINNIA ELEGANS.

Of easiest cultivation and should be in every collection. Half hardy annuals.

Tall Double Mixed. Pkt., 5c.; ½ oz., 25c.

Dwarf Double Mixed Pkt., 5c.; ¼ oz., 25c.

Dwarf Scarlet Pkt., 5c.; ¼ oz., 25c.

NEW DAHLIAS—

Pages 70-72



Violet.

Zea, or Ornamental Maize.

Japonica Variegata. Finest mixed. All varieties. Pkt., 5c.; oz., 20c.

Gracillima Mixed. Pkt., 5c.; oz., 20c.

PLANT DEPARTMENT

FLOWERING AND VEGETABLE PLANTS, ROOTS AND BULBS.

We are very proud of our Plant Department and the wonderful success of our Oregon-grown plants and Nursery Stocks; they have made us many friends, for nothing gives so much pleasure for so little care as growing plants, be they flowers, fruits or vegetables, and a small investment in this department will bring you many returns.

DAHLIAS

Our informal Dahlia Show at the Chamber of Commerce building, in Portland, last fall, where over 100 varieties of the different types were shown, was a revelation to all who had not closely followed the recent development of these grand flowers, which, although the genus comprises very few species, has a wider range of color than any other flower and cannot be equaled for intense brilliancy and beauty.

Our past year's trials have given us many valuable additions of wondrous beauty, and from July until frost they yield a wealth of bloom that for garden effects or cut flowers is not equaled by any other class of plants.

We grow our own Dahlias and offer only such as we know to be valuable. Our descriptions are made from nature, and not copied or guessed at.

We would specially call attention to the new type of **Faeony-Flowered Dahlias** as being of rare beauty and great value for garden effects or cut flowers. They are worthy a trial.

FLORENCE STREDWICK
FRAU HERMINA MARX
LAWINE

3
Cactus
Types



CULTURE: Dahlias will grow to perfection in any good garden soil, preferably one that contains a little sand. Plant as soon as the frost is gone and the ground warm, cutting the tuber to a single strong eye, and placing it on its side at a depth of about 6 inches, in ground that has been previously well cultivated. An excellent way to start Dahlias is to sprout the tuber in a greenhouse and set out the rooted plants. These are generally believed to give more and better flowers, but is more trouble than planting the

bulbs. Rows should be 4 feet apart, plants 18 inches to 3 feet apart in the row, depending on whether planted for a hedge or for specimen plants. Cultivate thoroughly until ready to bloom, then deep tillage must cease and only the surface be lightly stirred, as deep cultivation at this time is fatal to blooming.

If you use commercial fertilizer, do not apply until the plant starts growth, then work it into the top soil, 5 or 6 inches from the plant. Bone meal is an excellent fertilizer for Dahlias, but must be applied early, as it is slow in action. When the plant is well up, say 6 to 10 inches, pinch off the top, leaving 2 or 3 joints. This will cause it to branch out into a more sturdy, bushy growth. Water freely.

FINEST NEW CACTUS DAHLIAS

Especially selected for their great beauty of form and color, vigorous growth and freedom of bloom, an ideal collection, giving a fine range of color.

Special offer of entire collection

\$5.00, prepaid

great beauty of form, vigorous, free-flowering; **Aschenbrodel.** Orange pink, distinct coloring; of one of the finest ever produced. **Each, 50c.**

Aurora. Considered the grandest Dahlia ever grown. We are inclined to this belief after personal observation during the past season. Color almost indescribable, shading through tints of pink, amber, rose and cream; a model flower of perfect form, and splendid habit of growth. **Each, 75c.**

Berlichengen. New, deep crimson-carmine; brighter at tips; of the finest form and substance; a true cactus type of rare beauty. **Each, 50c.**

Fairy. Beautiful clear white narrow petals, fine form, of large size, a free and constant bloomer, of distinct type. Our choice of all White Cactus Dahlias. **Each, 50c.**

Frau Hermina Marx. A new Dahlia of rare beauty, color the same lovely shade of pink as the LaFrance rose; center delicate flesh; erect, free bloomer; very desirable. **Each, 50c.**

Master Carl. Bright amber, of giant size and perfect form, immense petals, gracefully curved; free-blooming, distinctive. **Each, 50c.**

Miss Dorothy Oliver. Pale primrose yellow; long narrow petals; fine form; beautiful and attractive. **Each, 50c.**

Mrs. H. J. Jones. A striking combination of intense scarlet with cream tips to petals, sometimes showing stripes and markings of white, of perfect cactus form; a most valuable and interesting Dahlia. **Each, 50c.**

Mrs. Stranock Gaskill. A delicate shade of exquisite pink; large, finely petaled; a rare novelty of great beauty. **Each, 75c.**

Lawine. Fine large white, faint blush tint; erect, free-flowering, excellent for cut flowers. **Each, 35c.**

Rother. Dark rich crimson, very early and free-flowering, of vigorous, erect habit; bush rather dwarf; flowers of the largest size; perfect cactus type. **Each, 50c.**

Stern. Odd and beautiful; star shaped; pure lemon-yellow flower; vigorous; good for garden or cut flowers. **Each, 50c.**

Thuringia. A magnificent flower of immense size and perfect form; color, a brilliant orange-vermilion; perfect cactus type, of great depth, petals narrow, curving upwards; a grand exhibition sort. **Each, 50c.**

CACTUS DAHLIAS

From comparative tests in the field, we have selected the following as being the best of their types and color, and this list contains many of the finest new Dahlias as well as the best of the older ones.

Red.

- Edith Waters. Beautiful carmine pink, claw-shaped petals, free-blooming, desirable 35c.
- Matchless. Dark rich crimson 20c.
- Progenitor. Bright carmine, fringed petals, new variety of great beauty 20c.
- Santa Rosa. Glowing scarlet. Burbank Dahlia 25c.
- Standard Bearer. Rich, fiery scarlet; one of the best 20c.
- Ingeborg Egeland. Flowers deep scarlet, borne on strong stems. Foliage rich green; vigorous, constant bloomer 50c.
- Signal. Brilliant crimson-scarlet; height 24 inches; flowers large, of fine form; free-blooming 50c.

Pink.

- Brittania. Beautiful salmon-pink 25c.
- Clara G. Stredwick. Bright lovely salmon; finest of its class 25c.
- Countess of Lonsdale. Rich rosy-pink, very floriferous 15c.
- Kriemhilde. Blush-pink; a prize-winner; one of the finest new Dahlias 20c.
- Pink Pearl. Deep rich pink, fine form 25c.
- Victor von Scheffel. Clear, lovely pink; a beautiful Dahlia; perfect form 35c.

White.

- Eva. Pure white, fine form; one of the best 35c.
- Fairy. Beautiful clear white, narrow petals, fine form; our choice of all White Cacti 50c.
- Florence M. Stredwick. A grand new white; large, fine form (see cut) 25c.
- Schwan. The largest, most perfect and freest blooming White Dahlia ever offered. The giant blooms of a pure glistening white with their narrow, twisted petals have a beauty and elegance not approached by any other variety. Blooms early. 50c.
- Jugend. Creamy white; curved petals; very fine 25c.
- Lawine. Fine large white, faint blush tint; erect, free-flowering 35c.
- Pius X. Pale sulphur-white, best for cutting 35c.
- Winsome. Dainty pure white; erect, long stems; excellent 25c.

Yellow.

- Capstan. Orange-scarlet and apricot; one of the finest for cut flowers; dwarf habit, free-bloomer, with large, perfect flowers on long, stiff stems 15c.
- Antelope. Rich yellow; bronze red shading 40c.

FOR
FINEST
ROSES
SEE
PAGES
85-90



"FAIRY."

- Jealousy. True bright yellow; immense size, free blooming 20c.
- Mrs. Chas. Turner. Bright lemon; finest of its color 20c.

Variegated.

- Arachna. Deep bright red, white center; excellent 25c.
- Estelle. Blush to dark pink, red marking 25c.
- Effective. Chamois rose, yellow shadings 35c.
- Erkonig. Soft chestnut, yellow base; fine 20c.
- Frute. Peaches and cream 20c.
- Innovation. Bright red, white tips 15c.
- Papagei. Yellow and rosy red, lemon tips 35c.
- Reliable. A blending of yellow, brick red and salmon; truly a grand flower 35c.
- Ballet Girl. Soft red, tipped white; center florets tinted fawn 20c.
- Mrs. Spencer Castle. A rare and distinctive type of cactus, suggestive of a water lily; color rosy amber, passing to lilac rose at base. 50c.

DECORATIVE, SHOW AND FANCY DAHLIAS

DECORATIVE.

- Dr. Gates. Beautiful shell-pink; good for cut flowers 25c.
- Lavender Queen. Clear, soft lavender; petals deeply serrated 15c.
- Mrs. Winters. Snow white, large beautiful form 20c.
- Miss Frances Fell. Decorative; white, lilac shading 20c.
- Miss Webster. Large, pure white; erect, free-bloomer; excellent 30c.
- Navajo. Rich, velvety red; splendid sort 25c.
- Opal Queen. A rare, new color, the same as the stone of that name 20c.
- Sylvia. Splendid pink; floriferous; keeps well 15c.

Souvenir de Gustave Doazon (Decorative.) The largest Dahlia to date, often growing 9 inches in diameter; constant bloomer, magnificent rich scarlet color; the greatest of all Dahlias. 50c.

QUILLED VARIETIES.

- A. D. Livoni. This grand old variety still remains the best pink of its type 15c.
- Grand Duke Alexis. Finest large white 15c.
- Lucy Fawcett. Sulphur-yellow, flaked crimson 15c.

POM-PONS.

- Catherine. Purest yellow; large 20c.
- Darkest of All. Darkest pom-pon; perfect flowers 20c.
- Nerissa. Soft pink, silvery tint; a beautiful new color 25c.

PAEONY FLOWERED DAHLIAS

THIS newest type of Dahlia, originating in Holland, comes to us with the endorsement of all Europe, and from the interest shown since its introduction into this country, bids fair to become one of our most popular flowers.

The blossoms are semi-double of enormous size, and the coloring is most brilliant and beautiful. They come in several pleasing forms, generally with 3 to 5 rows of petals, which are long and broad, sometimes being beautifully curled and twisted.

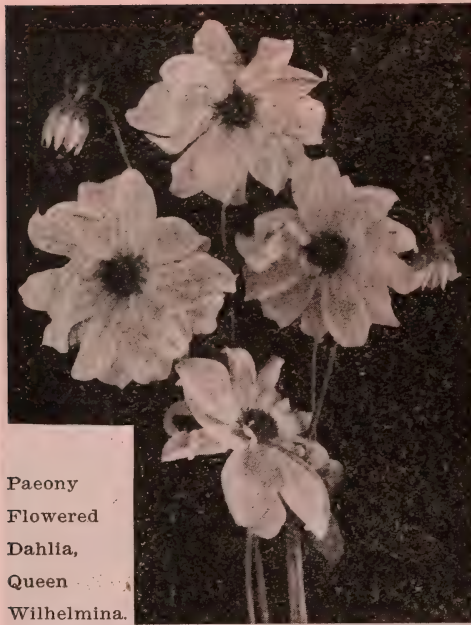
Paemony Dahlias bloom more freely than any other class, are very vigorous, growing to a height of 5 or 6 feet, with their flowers on long stems above the foliage.

Be sure to add a few to your collection.

P. W. JANSSEN

(Illustration on back cover.)

A magnificent new Dahlia of splendid form and distinctive coloring, being a lovely shade of old rose, marked and suffused with deep, rich golden yellow, a rare and beautiful combination that a description or illustration cannot fully portray. Bush grows to a height of



Paemony
Flowered
Dahlia,
Queen
Wilhelmina.

5 or 6 feet, is very vigorous and blooms more freely than any other Dahlia we know of. The giant flowers are borne high above the foliage, on long, strong stems, and keep better when cut than any of the other paemony-flowered, making them very valuable for decorations.

It is also one of the most valuable sorts for garden effects, as its great wealth of bloom, continuing until frost, is not equalled by any other sort. The illustration on the back cover shows the form and comparative size of the flowers, which often attain 6 or 7 inches in diameter. This new Dahlia is our own importation and we ask that you order early, as stock is limited—if bulbs are sold out, we will send live plants in season. **Price, each, 75c.; doz., \$6.00.**

Queen Wilhelmina. Largest of the pure whites, central petals beautifully twisted and curled; very vigorous and free flowering.

Glory of Groenekan. Extra large flowers of finest form. Color a splendid golden orange. Strong grower; free-flowering.

Queen Emma. Giant flowers of a lovely soft lavender pink, irregular ranges of petals, long stems.

Germania. A rich, dark velvety wine color with a suffusion of golden-yellow toward the edges of petals; a brilliant and pleasing color effect.

Any of the above 4 varieties, ea., 40c.; doz., \$3.00.

CANNAS

See bed of King Humbert on back cover—from photo.

WE are extensive growers of Cannas, and the following sorts are the newer and better types that will give best results in our climate. Cannas require a rich, moist soil and should not be planted until all danger of frost is past. They are quick growers and the new flowering sorts bloom continuously until frost.

Inexpensive, luxuriant; these charming ornamental plants produce rich tropical effects that cannot be excelled, and the grand new varieties now offered are equally valuable for the beauty of their bloom.

Let us know your requirements. We can supply the correct variety.

Prices: Except where noted, bulbs or plants, in season, each, 20c.; dozen, \$2.00, prepaid.

Allemania. Light green, compact foliage, orchid type of flowers, bright golden-lemon center marked and spotted terra cotta; height 4 to 5 feet; splendid new variety.

Each, 25c.; doz., \$2.50.

Black Beauty. Large leaf, deep green with brownish tint, vigorous dense foliage; flower spikes long; color a distinct deep shade of scarlet; height 6 feet.

Burbank. Orchid-flowering type, with light green foliage of compact habit; flower bright lemon with deeper eye; height, 3 feet.

Chas. Henderson. Green foliage. This we consider one of the finest bedding varieties in existence, as it is of compact, vigorous growth and a free bloomer; color, a deep, rich crimson; 4 to 5 feet.

Each, 20c.; 3 for 50c.; 12 for \$1.60.

David Harum. Foliage dark, glossy bronze; flowers, large, orange-scarlet; very free-blooming; height, 3 to 3½ feet.

Eldorado. True bright yellow, faintly spotted light red; light green foliage. The best yellow Canna; 3 to 4 feet.

King Humbert. In this grand new orchid-flowered Italian Canna we have a combination of the highest type of flower with the finest bronze foliage. Its mammoth flowers are produced in heavy trusses of gigantic size and are of a brilliant orange-scarlet with bright red markings, while the foliage is broad and massive and of a rich coppery bronze with brownish green markings; bold and effective; has no equal; 5 to 6 feet.

Louisiana. A strong, vigorous grower, producing a dense mass of glossy green foliage and vivid orange-scarlet flowers of mammoth size; orchid type; height, 4 to 5 feet.

Louise. The nearest approach to a true pink—a rare color in Cannas; a very vigorous, constant bloomer with light green dense foliage; height, 4 feet.

CANNAS—Continued

Mrs. Kate Gray. Foliage green; flowers very large; rich orange-scarlet, marbled with red, yellow in the throat; 5 to 6 feet.

Musafolia. This is the finest foliage Canna yet seen; has enormous Musa-like leaves, 2x5 feet, of a dark green. In size and beauty of foliage it is a revelation, and makes a clump or single specimen plant for the lawn which no other foliage plant can approach. Attains a height of eight feet, beautiful and symmetrical at every stage of growth.

Papa Nordy. Splendid new Canna with magnificent heads of broad, round-petaled flowers; a bright carmine-rose; height, 4 to 5 feet.

Price, each, 25c.; doz., \$2.50.

Red Cross. One of the finest Cannas; magnificent rich, dark-brown foliage, of massive,

sturdy habit; flowers a brilliant glowing orange-red. One of our most pleasing varieties. Height, 3 to 4 feet.

Souv. de Antoine Crozy. A splendid new Canna of a rich crimson-scarlet, bordered widely with golden yellow; one of the finest flowering Cannas; very brilliant and attractive; height, 3½ feet.

Wyoming. A grand orchid-flowering Canna, with deep bronze foliage and immense golden-orange flowers, suffused with a blush of crimson; very distinct and beautiful; height, 4 to 5 feet.

Price, each 25c.; doz., \$2.50.

Pennsylvania. One of the finest of the new orchid-flowering Cannas; color a deep, rich scarlet; very free bloomer; spikes long and of enormous size; foliage dense, large, deep green; height, 5 to 6 feet.

GLADIOLI

PLANT
GLADIOLI

Beautiful, Inexpensive, Hardy
Everywhere.



CALADIUM

Esulentum (Elephant's Ear). Grand tropical looking plant. A favorite for specimens on the lawn, or for bordering large sub-tropical groups. In deep, rich soil, if freely watered, they produce enormous leaves, frequently four feet long by three feet wide. Plant in the spring. Height, four to five feet. Each, 25c.; dozen, \$2.00.

Of the simplest culture, thriving in any soil, these splendid flowers come at a season when most welcome, and the marvelous beauty of the newer varieties makes them particularly desirable. If you have not seen the newer colors and types, take advantage of this opportunity and order the choice collection listed here. It's a profitable investment.

Plant any time from February to June.

Price, 15c. Each; \$1.60 Dozen.

We have grown this entire collection and know they will please and surprise you. Try them.

Attraction. Deep crimson, white center.

America. Exquisite shade of pink lavender.

Canary Bird. Pure canary yellow.

Klondyke. Light yellow, crimson-maroon blotch.

Octoroon. Beautiful salmon pink.

Sunlight. Light crimson, canary throat, mottled velvety maroon.

Superb. Enormous, pink, flaked and striped salmon.

Reine Blanche. Pure white, dark carmine blotch.

TWO FINEST.

Price 25c.; \$2.50 dozen.

Blue Jay. Indigo, only real blue.

Blanche. Pure snow white.

GLADIOLI HYBRIDS.

Large Bulbs
10c Each; \$1.00 Dozen.

Second size
8c Each; 75c Dozen, postpaid.

Gladioli Lemoinei. These have odd and fantastic markings; brilliant and showy colors, mostly light shades.

Gladioli, Groff's Hybrid. A mixture of Hybrids of all sorts, giving in one bed the greatest range of colors and variations.

Gladioli Childs. Of grand size and color, very showy, containing a large per cent of red and dark shades.

Gladioli, Fine Mixed. This mixture will produce a large variety of flowers at a little expense; unequalled for the price.

Large Bulbs
2 for 15c; 75c per Dozen.

Second size
50c per Dozen, Postpaid.

LILIES



The most fragrant, beautiful and stately of all outdoor flowers, requiring less care and attention than for any other plant. After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements, and once established, they rival the famous product of Japan.

All varieties we offer are perfectly hardy, and should be planted outdoors during the fall or early spring. They flower each year from June to October. We have selected the finest types that bloom freely and in the various kinds listed below you will find Lilies suitable for every purpose.

LILIUM HARRISII.

(The True Bermuda Easter Lily.)

Delightfully fragrant, pure waxy white, of great substance.

Mammoth bulbs. Each, 30c.; doz., \$3.00. Large bulbs. Each, 25c.; doz., \$2.50.

LILIUM LONGIFLORUM (Multiflorum).

Much like the *Lilium Harrisii*, not quite so early, but the flowers are of better substance. When grown in the open ground they bloom in June and July. Can be planted in the spring or fall.

Mammoth bulbs. Each, 20c.; doz., \$2.00. Large bulbs. Each, 15c.; doz., \$1.50

LILIUM LONGIFLORUM (Giganteum).

Of grand size and substance; superior to the Multiflorum, but forces a little later; especially fine for open ground.

Mammoth bulbs. Each, 20c.; doz., \$2.00. Large bulbs. Each, 15c.; doz., \$1.50.

LILIUM AURATUM.

The handsomest and best known 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 gold band fading at its edges into white; very fragrant. They bloom from June to October.

Mammoth bulbs, very choice, each, 20c.; doz., \$2.00; Large bulbs, Each 15c.; doz., \$1.50.

Auratum Rubro Vittatum. Giant flowers—pure white, beautifully spotted and with deep crimson stripe through center of petal. Truly magnificent. \$1.00 each, postpaid.

Auratum Pictum. Same as *Auratum*, except gold band shades into bright crimson at margin. A rare and beautiful Lily. 75c. each, postpaid.

Auratum Platyphyllum. This is without question one of the most wonderful Lilies in cultivation. The leaves are very long and broad, anuratum, heavily spotted, but are much larger, to ten feet. The flowers are similar in color to *Ad* the stems attain a height varying from seven to ten feet. The petals are more overlapping, and of greater substance. See cut.

Mammoth bulbs. Each, 25c.; doz., 2.50. Large bulbs. Each, 20c.; doz., \$2.00.

LILIUM SPECIOSUM.

No words can overstate the brilliant beauty of this charming class. Its six broad white, or pink petals 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 days after being cut and put in water.

NEW LILIUM MAGNIFICUM.

As its name implies, this new Lily from the southern island of Japan, is the most magnificent of the wonderful *Speciosum* Lilies. It is of the *Rubrum* variety, closely allied to *Speciosum Melpomene*, but of much richer color and grander size. Should be in every collection. Price, Each, 40c.; doz., \$4.00.

Speciosum Album. Pure white, flowers freely.

Mammoth bulbs. Each, 30c.; doz., \$3.00.

Large bulbs. Each, 20c.; doz., \$2.00.

Speciosum Rubrum. White, with dark rose spots.

Mammoth bulbs. Each, 25c.; doz., \$2.50.

Large bulbs. Each, 20c.; doz., \$2.00.

Speciosum Rubrum Melpomene. White, shaded rich blood crimson, heavily spotted; very rich and showy.

Mammoth bulbs. Each, 25c.; doz., \$2.50.

Large bulbs. Each, 20c.; doz., \$2.00.

TIGER LILIES.

Tigrinum Flore Pleno (Double Tiger Lily). This is a magnificent Lily of stately habit, bearing immense clusters of very large double flowers on tall, strong stems; color bright orange red, spotted with black.

Mammoth bulbs. Each, 30c.; doz., \$3.00.

Large bulbs. Each, 20c.; doz., \$2.00.

Tigrinum Splendens (Improved Single Tiger Lily). Has very large flowers of excellent form; color orange-salmon, with dark spots; hardy and a free-bloomer.

Mammoth bulbs. Each, 15c.; doz., \$1.50.

Large bulbs. Each, 10c.; doz., \$1.00.



Lil. *Platyphyllum*.

LILIES—Continued.

WASHINGTONIANUM (Mt. Hood Lily).

A beautiful Lily, native of Oregon; flower large, of open form, white, tinted with lilac; grows three to five feet high; very fragrant.

Choice bulbs..... Each, 25c.; dozen, \$2.50.

CALLA ELLIOTIANA.

Yellow Calla. The finest of the yellow Callas, growing to perfection under ordinary pot culture. Treat same as White Calla. Flowers are a deep rich golden yellow—4 to 5 inches in diameter, and last a long time after opening. Foliage is a beautiful deep green, spotted silvery white; a grand novelty.

Price Each, 50c.; dozen, \$5.00.

LILY OF THE NILE.

Calla Aethiopica. Our well-known White Calla in its rare and stately beauty has few equals as a pot plant, and nothing is easier to grow. Plant one bulb to six-inch pot, give an abundance of water, light and heat, and the result will be most satisfactory.

We offer dry roots (from September on), as they are superior for forcing and winter flowering purposes. They come into bloom quickly.

First size bulbs..... Each, 15c.; dozen, \$1.50.

Extra size bulbs..... Each, 20c.



LICORIS SQUAMIGERA.

AMARYLLIS HALLI.

(Licoris Squamigera).

A new hardy pink Amaryllis-like flower, of exquisite beauty, producing its attractive green foliage in the early Spring, dying down suddenly in July, but in three or four weeks the flower stalks shoot up as if by magic, to a height of two or three feet, developing a cluster of large and beautiful lily-shaped flowers three to four inches in diameter; color is a most charming shade of delicate lilac pink with dainty blue shading. Fall planting is best, and bulbs should be buried about four inches. A pleasing novelty, well worthy a trial.

AMARYLLIS.

All Amaryllis produce Lily-like flowers, varying in color from the richest crimson and scarlet to pure white. The bulbs we offer are of extra large size and will produce handsome flowers either in or out of doors.

Johnsonii (Bermuda Spice Lily.) An old favorite. The immense trumpet-shaped flowers, which measure six to eight inches across, are borne on strong, fleshy stems and are a rich velvet crimson, each petal having a broad white stripe, contrasting beautifully with the deep red color.

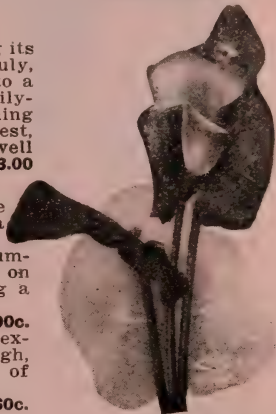
Choice bulbs, each, 35c.; 3 for 90c.

Belladonna Major (Belladonna Lily.) Autumn blooming variety of extreme beauty and fragrance; the spikes grow from two to three feet high, each carrying from six to twelve beautiful flowers, "sweet as lilies," of silvery white, flushed and tipped with rose.

Choice bulbs, each, 25c.; 3 for 60c.

Vittata Hybrids. New varieties of exceptional beauty; flowers large, elegantly colored and marked. Good for early forcing.

Each, 40c.; 3 for \$1.00.



CALLA ELLIOTIANA.

**Portland Seed Co.'s Extra Select
LILY OF THE VALLEY.**

One of the most satisfactory and charming Spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant, white flowers. Valleys thrive in any common soil, are perfectly hardy, and will succeed in shady situation. They can be left undisturbed in the open ground, where they will increase from year to year, and are most charming in beds or borders around the lawn. For outdoor planting and Winter forcing, pips and clumps are ready November to March.

Selected Pips, for forcing indoors or planting outside. Each, 5c; doz., 40c; 100, \$2.50

Strong Clumps for outdoor planting. Each, 30c; doz., \$3.00

NOTE—Clumps can only be sent by express or freight at buyers' expense.

BLEEDING HEART.

(Dicentra).

Spectabilis. One of the most ornamental of hardy spring flowering plants, with elegant, green foliage and long, drooping racemes of heart-shaped flowers. This is deemed one of the finest of all hardy garden plants.

Strong Roots...... Each, 30c; postpaid

NEW WHITE BLEEDING HEART.

(Direct from Holland).

Spectabilis Alba. A splendid novelty for conservatory or cool greenhouse. If planted outside, must be placed in a sheltered position. A pure white, free-blooming, beautiful variety of great value.

Strong Roots...... Each, 50c, postpaid



LILY OF THE VALLEY.

FLORISTS—WE HAVE ON STORAGE AT ALL TIMES FANCY BERLIN PIPS FOR FORCING. WRITE FOR PRICES.

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 clumps or borders. They do best in rich, moist soils. Plant in the fall or early spring.

IRIS GRACILIPES

Iris Gracilipes. An excellent novelty of recent introduction, and the finest of all Japan Iris for forcing or pot culture. The beautiful white flowers borne in clusters on strong stems have dainty blue marking and shading. Luxuriant grower; very free flowering; fine outside for borders and bedding.

Strong roots, each, 25c.; doz., \$2.25.

JAPAN IRIS (Kaempferi)

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it, and is becoming more popular each year. The enormous flowers display a marvelous blending of rich and rare shades of violet, blue, crimson, white and yellow. It would take pages to describe the beauty of the following named kinds. We merely give general color effect; first color given predominating. All are double unless otherwise marked. (See cut.)

- Nosora.** White, shaded and marked sky blue, yellow and lavender.
- Kumo.** Dark lavender, shaded and marked yellow, white, lilac; single.
- Komochi-Guma.** Violet.
- Koki-No-Iro.** Red-purple suffused intense blue; orange blotches.
- Hoojo.** Ruddy crimson, shaded and marked white and purple.
- Sofu.** White, shaded and marked violet and sky blue.
- Nishiki.** Claret red, shaded and marked white and orange.
- Yomo.** Lavender, shaded and marked blue, yellow and red-lavender.
- Funjin.** Purple, shaded and marked navy blue and orange.
- Isho.** Vinous-purple, shaded and marked gray, crimson and violet.
- Ujino.** Purple, shaded and marked orange, claret, gray; single.
- Shimoyo.** Gray, shaded and marked lavender, yellow white; single.



The Wonderful Beauty of Japan Iris Will Amaze You.

Named varieties Each, 20c.; doz., \$2.00; 100, \$15.00.
 Mixed, good assortment Each, 15c.; doz., \$1.50; 100, \$10.00.

SPANISH IRIS (Iris Hispanica).

One of the most satisfactory varieties of Iris to grow, being very hardy and equally good for forcing indoors or garden culture. The flowers are of great beauty, having many different blendings of colors, and if cut when in the bud will last a long time in water. We offer the following named sorts:

- Blanche Fleur.** A grand white variety, having great substance in the flowers.
- Chrysolora.** Extra fine, golden yellow; one of the best for forcing and outdoor; grand, pure stock.
- Count of Nassau.** The finest dark blue in cultivation. The flower has an agreeable honeysuckle-like perfume. A new and rare sort; very fine.
- Louise.** A beautiful shade of light blue, large, splendid flower. Always attracts attention; the finest of its color and a grand variety.
- Any of the above new sorts, each, 5c.; doz., 40c.; 100, \$1.50.
- Mixed varieties (good assortment), each, 3c.; doz., 25c.; 100, \$1.25.



They will Please you. English Iris. Try them.

ENGLISH IRIS (Anglica).

Beautiful, attractive and worthy of a place in every garden. Their large, peculiarly shaped flowers remind one of the rare orchids. This variety has large flowers of purple, violet, lilac, rose, pink and white shades, and a few spotted. Set the bulbs in clumps three inches apart each way and three inches deep. Order any color desired; space will not permit description by name.

Separate colors Each, 5c.; doz., 50c.; 100, \$3.00.
 Mixed varieties Each, 5c.; doz., 40c.; 100, \$2.00.

GERMAN IRIS (Iris Germanica).

These are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, and are remarkably rich and beautiful in color and graceful in form. Plants well established produce from 50 to 100 spikes of blooms; deliciously fragrant and fine for cutting.

- Donna Maria.** Early, white and lilac.
- Johan de Witt.** Lavender and plum.
- Shakespeare.** Yellow, bronze and purple.
- Honorable.** Yellowish and brownish.
- Spectabilis.** Early, deep purple.

Prices of any above sorts Each, 10c.; doz., \$1.00.
 Mixed varieties Each, 8c.; doz., 85c.



PAEONIES (Double Herbaceous)

The development and increase in popularity of the Paeony has been unparalleled among flowers. These noble plants are exceedingly effective; the profusion and duration of bloom, combined with handsome, massive foliage, accommodating habit and easy culture, render them one of the most popular hardy plants grown for lawn and garden decoration. The flowers are large, massive, perfect in outline and most beautiful.

As cutting material the Herbaceous Paeony can scarcely be surpassed. They are perfectly hardy and increase in size and beauty each year.

Festiva Maxima. A rare variety of great beauty. Exceedingly showy and of large size; flowers perfectly double; pure white, tipped or flaked with a small crimson spot at center; petals fine as summer silk; finest white in cultivation. **Price, 60c.**

Alba Sulfurea. Large, creamy white bomb, very massive. One of the best whites of the bomb type. Superior to one often sold under this name. **Price, 50c.**

Queen Victoria. A full, strong, white with yellowish-tinted center; a very popular variety. **Price, 30c.**

Mad. Breon. A beautiful variety with good growing qualities; flowers outside flesh, center lemon; occasionally carmine tipped—when first open; entire flower gradually changing to pure white. **Price, 50c.**

L'Esperance. Blooms just after the Officialis varieties; tall, robust grower; good bloomer; flowers fragrant and of good pink color. **Price, 30c.**

Modeste Guerin. Bright crimson-rose, "American Beauty" shade; bomb shape, very full, fragrant free. Midseason. **Each, 60c.**

Officialis Rubra. Flowers of a bright scarlet-crimson; quite double and globular; very early, rare and fine. **Price, 30c.**

Officialis Alba. Blooms with Officialis Rubra; flowers large and handsome. When Alba first opens it is light pink, fading to white as flowers grow older. **Price, 40c.**

Jeanne d'Arc. Very beautiful soft pink flower, sulphur-white and lively rose; center spotted carmine; one of the handsomest. **Each, 40c.**

NEW GIANT PANSIES

Our Giant Pansy Plants are in a class of their own and cannot be compared to any other Pansies, no matter where grown. We know that their equal is not produced in this or any other country. A trial basket will convince you. They are the best value ever offered in a bedding plant.

Each, 5c.; per dozen, 50c.; by mail, 75c. dozen.

Note—From March until June we have Pansy Plants in full bloom—none finer in the world. Put up one dozen in a basket. (See cut.) **Price, 60c. to 75c. per basket by express.** You will not be disappointed in these.

TUBEROUS BEGONIAS, Giant Flowering

These grand flowers are little known, few people realizing their rare beauty and easy culture. Visitors to "The Oaks," Portland, during the past summer will recall the beds of these magnificent flowers, many of the single blossoms being six inches in diameter.

Our Oregon climate is ideal for their perfect development and they delight in a shady, cool location, where few other plants thrive, lasting through a long season. The soil should be rich in leaf mould, or well-rotted manure, a little sand being beneficial. Start the bulbs inside in the early spring and transplant when danger of frost is past. They should be lifted in the fall before frost, dried and stored in sand in a cool place. Imported Holland stock.

Single Giant Flowers, 8 separate colors..... Each, 7c.; doz., 60c.; 100, \$4.00.
Double Giant Flowers, 8 separate colors..... Each, 10c.; doz., 75c.; 100, \$5.00.



PAEONY MOUTAN (Tree Paeony).

Grows about four feet high, forming a small, tree-shaped shrub. When this plant becomes well established and is covered with dozens of massive blooms, it presents a magnificent display. We have **Crimson, Pink, Scarlet, Rose and Variegated.**

Strong, Imported Roots, from January to May, by express at buyer's expense (too heavy to mail.) **Each, 75c.**



Everblooming Carnations

Price: 15c. each; four for 50c.; set of twelve fine varieties, \$1.25, postpaid.

Beacon. A bright, deep scarlet; a most perfect color, soft, yet brilliant; the flower is of the largest size and perfectly double; nicely fringed; sweet.

Bountiful. Color pearly white, very large, with heavy, glistening petals, delicately fringed; very fragrant.

Enchantress. Flowers very large, borne on long stems. The color is a superb shade of flesh-pink. An early and continuous bloomer.

Mrs. Thomas W. Lawson. Simply superb, both in form and color; brilliant dark pink, of immense size.

Prosperity. Distinct pure white, overlaid with pink motles, deepening toward the center; flowers of enormous size.

President Roosevelt. Magnificent, bright, rich crimson; large, perfectly double flowers.

Rose Pink Enchantress. The counterpart of that grand variety Enchantress in all particulars except color, which is a beautiful glistening rose-pink. Superb.

Sunbeam. Color bright yellow, lightly flaked with vermillion. Flowers deeply fringed on long straight stems. A fine fancy variety.

Viola Allen. One of the largest Carnations. Ground color of flower creamy white, pencilled with light pink.

Victory. Regarded by many as the finest scarlet Carnation. In color it is the most intensely brilliant scarlet; stems long and firm, holding the flowers upright.

White Perfection. The grandest white, and most prolific bloomer, of enormous size; full and double.



Windsor. This variety has been greatly admired wherever it has been seen for its desirable color, being a beautiful delicate shade of pink; flowers of large size and very freely produced; plant of grand habit and vigorous growth.

Firefly Collection of Fine Carnations

Price: 10c. each; six for 50c.; set of fourteen varieties, \$1.25, postpaid.

Argyle. Flowers of excellent form; a beautiful shade of deep cerise.

Boston Market. Flowers large, full and fragrant, pure white.

Estelle. One of the best reds cultivated, because it begins to bloom early and gives good supply of flowers throughout the season.

Eldorado. Yellow, finely formed flower of good size; petals edged with a narrow band of light pink.

Firefly. Rich scarlet; flowers large and deeply fringed; an early and continuous bloomer.

Flora Hill. Fine white, large size, very fragrant and an early, profuse bloomer; flowers of fine form.

Harlowarden. Brilliant dark crimson; very vigorous in growth, of excellent habit.

Imperial. Large flowered variety, white, striped bright scarlet; this is the most showy of all the fancy flowered carnations.

Jessica. A splendid free-flowering fancy Carnation; pure white, flaked scarlet.

Miss Frances Joost. Color, soft, pure rose so much admired by cut-flower purchasers.

Peru. Color, a pearly white; one of the finest and most beautiful varieties in our collection.

Portia. Intense bright scarlet; vigorous constitution.

The Queen. A beautiful pure white variety; one of the most prolific bloomers.

William Scott. A free bloomer; fine, sweet flowers; color, bright, delicate, rosy pink.

Flowering Begonias

Price: 10c. each; set of six sorts, 50c.

Bertha de Chateau-Rocher. The freest flowering Begonia we have. Handsome window plant, bright red flowers.

Cuprea. A fine, erect Begonia, with dark rough leaves. The panicles of unopened flowers are bright red with surface like plush.

Dewdrop. Pure white, with shining deep green foliage, always in bloom.

Marjorie Daw. Foliage deep glossy green; flowers a beautiful shade of salmon-pink produced in long, drooping clusters.

Marguerite. Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.

President Carnot. A strong growing variety of stiff, upright habit; foliage large, upper side deep green, under side purplish red; flowers beautiful coral red in large pendant panicles.

REX BEGONIA.

Grown for the beauty of their foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants; also useful in baskets and vases. We offer twenty of the most distinct and handsomely marked varieties.

Price, large plants, 25c. each.



Rex Begonia.

SUPERB EXHIBITION CHRYSANTHEMUMS

Price: 15c. each; 4 for 50c.; set of ten sorts, \$1.00.



Major Bonnafon. Soft, clear yellow, full in bud; perfect form.

Mrs. James Marshall. Flowers heavy in substance and of beautiful texture and contour; color flesh-pink; fine for cut flowers and garden decoration.

Niveus. Large pure white reflexed flowers

EARLY FLOWERING JAPANESE CHRYSANTHEMUMS

Price: 10c. each; set of 10 sorts, 75c.

Easygold. Elegant, lemon yellow, incurved flowers, produced in great profusion early in the season. A most satisfactory variety for the garden.

Golden Glow. A handsome, yellow variety of pure tint; splendid in size and form, and a magnificent addition to the very early varieties.

Geo. S. Kalb. Snowy white, high built, incurved bloom. A beautiful flower.

George W. Childs. No Chrysanthemum has created such a sensation as this; of immense size and of the richest, deep velvety crimson; winner of four gold medals.

Early Snow. Snowy white, of perfect incurved form, very large; this is undoubtedly one of the most useful varieties ever introduced.

Black Hawk. A velvety crimson-maroon; outer petals very much reflexed and center erect, making a very large flower.

Colonel Appleton. Rich golden yellow, immense size, very double; a grand, well built flower, with splendid stem and foliage. A sure prize-winner.

Clementine Touse. Grand new incurved white variety, sometimes faintly touched with pearl. A gem among Chrysanthemums.

Brutus. Petals broad and deeply grooved; inside orange-red, outside old gold; one of the most beautiful.

Dr. Enguehart. Flowers delicate pearl-pink; large beautifully incurved; very double and of exquisite form.

Golden Age. Deep golden yellow, of the richest hue, of immense size; the petals are feathery and whorled, forming a most artistic flower. No finer yellow variety in existence.

Price, postpaid, 10c each; set of 6 sorts, 60c. of great substance. Petals extremely broad and unfolds in a most artistic manner.

The Queen. Immense globe-shaped, pure white flowers; one of the grandest sorts for exhibition.

J. K. Shaw. A beautiful light shade of pink, having excellent keeping qualities; with extra good foliage and stem. A grand commercial flower.

October Frost. Early, white, coming into bloom the first week in October; a fine, incurved flower.

Source d'Or. Golden, twisted flowers, tipped yellow and shaded with brown. One of the most satisfactory for general planting.

Wm. Simpson. A very early and very large, deep pink variety. Fine double flowers on a stiff stem; an excellent keeper and very valuable for early cut flowers.

Willowbrook. Beautiful, pure white variety, petals twisted and arranged in a most artistic manner.

GERANIUMS FOR POTS AND BEDDING

SIX FINEST SINGLE VARIETIES.

Price, postpaid, 10c each; set of 6 sorts, 60c.

Gertrude Pearson. Flowers bright pink, upper petals shaded to white.

Jacquerie. Rich, vivid crimson; immense trusses.

Leon Ferrault. Brilliant scarlet, of the most dazzling shade; very large trusses and florets.

Mrs. J. M. Garr. Trusses large and of perfect form; color pure snowy white.

Mrs. A. Blanc. Light salmon, blended with darker shades; center and edge of petals pure white; extra fine.

Thos. Meehan. Rich various rose color, upper petals marked with orange.

SIX FINEST DOUBLE VARIETIES.

Price, postpaid, 10c each; set of 6 sorts, 60c.

Van Beneden. Fine large flowers, lower petals rich violet, bordered with scarlet, upper petals orange-scarlet.

Francis Perkins. The finest pure pink variety we know of.

John Doyle. Very large and full trusses of double bright, velvety scarlet flowers.

La Favorite. Trusses very large; flowers pure snow white.

Mme. Jaulin. A truss of grand size, delicate pink, bordered with pure white.

S. A. Nutt. The best of the rich, dark crimson varieties. Trusses massive.

FINEST DOUBLE FRINGED PETUNIAS

Price, 10c. each; seven sorts, 60c.; fourteen plants, any variety, \$1.00.

Double Petunias make excellent bedding plants, as well as being suitable for pots and vases. Like the Single Petunias, they bloom continuously all through the season. The flowers, however, are far more beautiful, being larger, quite double and finely fringed. The varieties we offer are the latest production of a noted specialist and are without doubt the finest yet produced.

Champion. A unique and beautiful variety, light lavender-pink with white edges, veined and marbled with brownish crimson.

Edna. Deep violet-crimson, mixed with white, clear white on the edges of the petals.

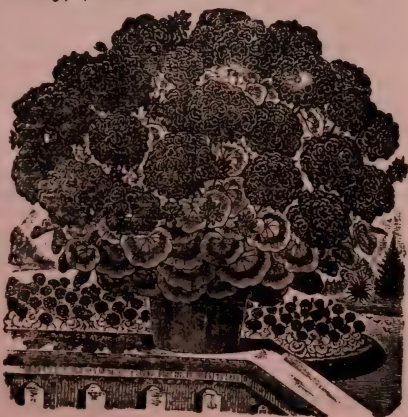
Fantasy. A grand variety, deeply fringed, large and very double, pure white, irregularly splashed with violet.

Majestic. An extra large, fine double fringed variety; deep violet-crimson with a velvety finish.

Pink Beauty. A lovely shade of light clear pink; one of the most beautiful yet raised.

Sea Foam. For purity of color, form, size and vigor of growth, this variety is unsurpassed in double white Petunias.

Wonderful. A distinct shade of heliotrope, beautifully fringed.



CHOICE DOUBLE AND SINGLE FUCHSIAS

Price, 10c. each; set of 7 sorts 60c.

Black Prince. A strong grower and free-bloomer; sepals dark red; corolla rose vermilion; tinted violet; extra fine.

Commandant Marchand. Fine, large and elegant form, sepals long and reflexed, pure red; corolla large double white.

General Roberts. Flowers very large, corolla plum color, tube and sepals crimson; one of the finest varieties.

Little Beauty. Rich crimson sepals; corolla purple; dwarf habit and very floriferous; a little gem.

Molesworth. Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white; an excellent grower and profuse bloomer.

Minister Boucher. An extra large, double, rosy-purple flower; a free, strong grower; very full, wide corolla.

Rose Phenomenal. A fine, large, rounded corolla with strongly recurved sepals. The corolla is a delicate heliotrope color, suffused with rose.

GRAND NEW HELIOTROPES

Price, 15c. each; set of 4 sorts, 50c., postpaid.

Albatross. Elegant dwarf, bushy growing, new variety of great merit; large panicles of pure white flowers in great profusion all season; the best white variety to date.

Heavenly Blue. Large, close panicles of exquisite light blue flowers, with white eye. Grows vigorously and flowers abundantly; very fine for bedding out, for which purpose we offer it at \$1.00 per dozen.

Lavender Queen. Enormous florets, very large trusses of bloom; color, a beautiful shade of lavender, suffused with rosy mauve. A dwarf, robust grower and very free and continuous bloomer.

Royal Purple. Very large and fragrant; color, deep violet purple, with white eye; very floriferous, and cannot be too highly recommended for bedding out, for which purpose we offer it at \$1.00 per dozen.

JAPANESE FERN BALLS

Composed of the Japanese Island Fern Roots so constructed as to send out leaves of beautiful emerald green from every point. They grow rapidly and make a handsome ornament for the home, conservatory or greenhouse.

Price of Balls in dormant state, Each, 75c.

FERNS

Set of four small plants, 50c.; large plants, \$1.00.

Asparagus Sprengerii (Emerald Feather). One of the handsomest and most valuable evergreen trailing plants for the house. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage, which can be cut freely, very useful for bouquets and floral decorations.

Nice plants, 15c. to 35c. each, postpaid.

Asparagus Plumosus (Climbing Lace Fern). A finer and more delicate plant than the Sprengerii, 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. The fronds retain their freshness for weeks when cut.

Nice plants, 15c. to 35c. each, postpaid.

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 two to three feet.

Nice plants, 15c. to 35c. each, postpaid.

Ostrich Plume Fern. One of the most wonderful and beautiful plant introductions of the present age. This new sort is a sport from the well-known Boston Fern, but more feathery. Has no equal.

Nice plants, 15c. to 35c. each, postpaid.



SWEET VIOLETS

Price, 15c. each; 6 sorts, 75c.

Alaska. A grand sort, well adapted to garden culture, being hardy and robust, and producing in spring great masses of enormous double flowers of a deep blue-black color and powerful fragrance.

Lady Hume Campbell. Large double flowers of a beautiful light blue color; very free-blooming and exquisitely fragrant.

California. Very showy and beautiful flowers of enormous size, deep violet blue; deliciously fragrant.

Princess of Wales. Flowers single, of gigantic size; color a very rich shade of blue, and extremely fragrant.

Marie Louise. A constant bloomer, producing great quantities of large, double flowers, lovely deep violet purple.

Swanley White. The finest and best double white violet in cultivation.

POPULAR BEDDING PLANTS

During the months of April and May we have thousands of the following hardy bedding plants, price per dozen by express at buyer's expense:

Alyssum \$.35	Daisies50	Lobelia35	Phlox50
Asters25	Forget-Me-Not . 1.00	Marigold50	Salvia50
Balsam50	Geraniums . . . 1.00	Mignonette50	Stocks35
Carnations50	Heliotrope . . . 1.00	Petunia50	Verbena50
Cosmos35	Hollyhock 1.00	Fansies50	

For description of these flowers, see Flower Seed Department. If wanted by mail, add 25c. per dozen for postage, and if it does not require this amount, we will put in extra plants.

Hardy Flowering Shrubs

For a complete and descriptive list of Flowering Shrubs, Plants and Trees, send for our 48-page Illustrated Nursery Catalog. Free on request.

HARDY PERENNIAL GARDEN PLANTS

Are valuable and most desirable. They die down only to the roots during the winter, continuing to grow and bloom year after year with little care, increasing in beauty as they acquire age.

Price, 15c. each; Large Clumps, 35c. each.

Japanese Anemones. There is nothing more beautiful in the entire list of hardy plants. They commence to bloom in August and increase in beauty until frost. We offer two finest sorts, Queen Charlotte (pink), Whirlwind (white).

English Primrose, Dean's Hybrids. Pretty low growing plants, bearing beautiful flowers early in the spring, having the cowslip fragrance so dear to the heart of every Englishman. Rich shades of a very wide range of color, from pure yellow to the deepest crimson-maroon.

Gaillardia, Grandiflora. One of the showiest and most effective hardy plants, growing about 2 feet high; beginning to flower in June, they continue the entire season. The large flowers are of gorgeous coloring, being a combination of yellow, brown, crimson and orange. Excellent for cutting.

Helianthus, Soleil D'Or. Graceful, golden yellow flowers having quilled petals similar to a Cactus Dahlia. Always in bloom.

Phlox, Perennial. No garden should be without these showy and satisfactory plants. They are as hardy as an oak, growing rapidly, making large clumps in a short time, and bear in the summer and fall massive panicles of flowers in unusual shades of rose, salmon, mauve, dark red and white.

Coreopsis, Golden Sunbeams. One of the most beautiful hardy plants in existence, bearing profusely all summer large golden yellow flowers, on long stems, making it especially adaptable for cutting.

Hollyhocks. Stately garden plants bearing large double flowers in wide range of colors from pure white to deep maroon.

Poppy, Oriental. Immense rich orange-scarlet flowers, one of the most stately perennials.

Poppy, Iceland. Beautiful dwarf-growing hardy plant, producing all summer beautiful cup-shaped flowers of various shades of yellow, orange and white.

Rudbeckia, Golden Glow. One of the most distinct and beautiful hardy perennials. Should find a place in every garden. The plant is a strong grower, of fine branching habit, bearing by the hundred, on long, graceful stems, beautiful double blossoms of the brightest golden yellow, and as large as Cactus Dahlia.

Shasta Daisy, Alaska. This superb new hardy Marguerite has proven to be a plant of wonderful merit, bearing its large, fluffy, white flowers with golden yellow centers from early in July until late fall, and is never without flowers. A grand thing for the garden. Fine for cutting, have long stems, and are good keepers. Nothing finer for the hardy border.



CLIMBING AND TRAILING PLANTS

AMPELOPSIS (Virginia Creeper).

Quinquefolia. Has large, luxuriant foliage, which in autumn assumes the most gorgeous and magnificent color; one of the finest vines for covering trellises or verandas.

Each, 35c. to 50c.

Veitchii (Boston Ivy, Japan Ivy). This is the handsome creeper so generally used for covering brick, stone and wooden walls; vine grows rapidly; the leaves are of a shining, glossy green, taking on beautiful autumnal coloring.

Each, 35c. to 50c.

BIGNONIA GRANDIFLORA.

Trumpet Vine. A modern climber, with large orange-scarlet flowers.

Each, 75c.

Radicans. Similar to preceding, but a more rapid climber.

Each, 75c.

CLEMATIS.

Well known among hardy vines, bearing large beautiful flowers of various shades of color through the greater part of the summer and fall. The most desirable climbers for trellises, porches and pillars.

LARGE FLOWERING VARIETIES.

Henryi. Fine, large, creamy white flowers; a strong grower and very hardy.

Jackmanii. Intense violet-purple, with a rich, velvety appearance; distinctly veined. The most popular and finest Clematis we have.

Mad. Ed. Andre—A beautiful, new variety; flowers red, large and abundant.

Choice plants of above sorts, each, 60c.; large plants, each, 75c. to \$1.00, postpaid.

Clematis Paniculata. A strong, rapid and vigorous grower; it produces sheets of medium-

sized, pure white flowers of the most pleasing fragrance; it is perfectly hardy and well adapted for covering trellises or fences.

Choice plants, each, 25c. to 30c.; large, 40c. to 60c.

HONEYSUCKLE.

Halleana, Japanese. A vigorous climber, with pure white flowers, changing to yellow; evergreen; very fragrant.

Each, 35c. to 50c.

New Belgian, Sweet-Scented. A magnificent new Honeysuckle—the finest yet produced; remarkable for the large size and delicious fragrance of its flower; dark, rich red and creamy yellow; a healthy, vigorous grower, and blooms continually the whole season.

Each, 50c.

IVY.

Common English. Thick, leathery, evergreen leaves; strong grower.

Good roots, each, 25c.

JASMINUM.

Nudiflorum. Fragrant, yellow flowers.

Each, 50c.

Officinalis. Flowers pure white, sweetly scented.

Each, 50c.

WISTARIA.

W. Sinensis—Chinese Wistaria. One of the most elegant and rapid growing of all climbing plants; grows 15 to 20 feet in a season; has long pendulous clusters of pale blue flowers in May and June and in autumn.

Choice plants, each, 35c. to 50c.;

Large, 75c. to \$1.50.

W. Multijuga. Similar to above, but flowers are darker.

Each, 75c. to \$1.50.

W. Erachybotrys. White flowering.

Each, 75c. to \$1.50.

VEGETABLE PLANTS

We grow large quantities of vegetable plants, and can supply all the kinds listed below, in their proper season, in most any quantity. We have made arrangements this year so that we can supply all vegetable plants in two grades. If you want a quantity of plants write us early.

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, but reserve the right to substitute varieties if necessary. No plants sent C. O. D. Write for prices in large quantities.

	Postpaid.	By Express.
	Dozen.	100. 1000.
Celery.		
Leading kinds, transplanted	\$0.25	\$0.75 \$6.00
Not transplanted		.50 5.00

	Postpaid.	By Express.
	Dozen.	100. 1000.
Cabbage.		
Early or late kinds, transplanted	\$0.20	\$0.75 \$6.00
Not transplanted		.50 4.00
Add 25c. per 100 for Cabbage Plants by mail.		

	Postpaid.	By Express.
	Dozen.	100. 1000.
Cauliflower.		
Early Snowball, transplanted	\$0.30	\$1.25 \$8.00
Not transplanted		1.00 7.00
Late kinds, transplanted	.30	1.00 7.00
Late kinds, not transplanted		.75 6.00
Add 25c. per 100 for Cauliflower Plants by mail.		

	Postpaid.	By Express.
	Dozen.	100. 1000.
Tomatoes.		
Leading kinds, transplanted	\$0.30	\$1.00 \$7.00
Not transplanted		.75 6.00
Add 40c. per 100 for Tomato Plants by mail.		
Sweet Potato Plants	\$0.30	\$1.00 \$7.00
Add 25c. per 100 for above Plants by mail.		
Chives (Schnittlauch), per bunch		25c.



Transplanted Cabbage Plants.

ASPARAGUS.

One-year-old plants.
 Postpaid, doz., 25c.; 50, 75c.; 100, \$1.00.
 By express or freight, doz., 20c.; 50, 50c.; 100, 75c.; 1000, \$6.00.

Two-year-old plants.
 Postpaid, doz., 40c.; 50, \$1.00; 100, \$1.50.
 By express or freight, doz., 25c.; 50, 75c.; 100, \$1.00; 1000, \$8.00.

HORSE RADISH ROOTS.

Postpaid Each, 5c.; doz., 40c.
 By express or freight, ... Doz., 25c.; 100, \$1.50.
 If wanted in larger quantities, write for special prices.

EXCELS ALL OTHERS

Soquel, Calif., Jan. 21, 1909.

Gentlemen:

I tried your Snow White Celery last year, and it excels any other I have tried to use.

Yours very truly,

T. D.

VEGETABLE ROOTS, ETC.

HOP VINES.

Strong roots. Postpaid, each, 5c.; doz., 40c.
 By express, doz., 25c.; 100, \$1.50.

RHUBARB ROOTS.

Varieties—Mammoth, Giant and Linnaeus.
One-year-old roots. Postpaid, each, 8c.; doz., 75c.
 By express or freight, doz., 50c.; 100, \$3.00.
Two-year-old roots. Postpaid, each, 15c.; doz., \$1.50.
 By express or freight, doz., 85c.; 100, \$6.50.

"SNOW WHITE" A WONDER

Sisson, Calif., May 3, 1909.

Dear Sirs:

The Snow White Celery is a wonder for this country. I would like to get the not transplanted ones, for they are cheaper for us gardeners if they are nice plants.

Yours truly,

E. G.

FLOWER POTS

We are agents for the Garden City Red Clay Pots and buy in carload lots. The wholesale trade, florists and nurserymen are requested to send for special prices, stating quantity wanted. They are by far the finest pots offered on this coast.



FLOWER POT AZALIA OR FERN POTS BULB PAN HANGING BASKET

FLOWER, FERN, AZALEA POTS OR BULB PANS (ALL SAME PRICE).

Size.	Saucers		Size.	Saucers.	
	Each.	Doz.		Each.	Doz.
2 inch	\$0.02	\$0.20	8 inch	\$0.16	\$1.75 \$0.10
3 inch	.03	.30	9 inch	.25	2.50 .15
4 inch	.04	.40	10 inch	.40	.20
5 inch	.06	.60	12 inch	.60	.35
6 inch	.10	.90	14 inch	1.50	1.00
7 inch	.12	1.20	16 inch	2.25	1.25

HANGING BASKETS.

These are well made, having scalloped edge and fancy designs on the lower outside. Better than wire baskets, as plants do not dry out so quickly.

8-inch Each, 30c.; doz., \$3.40.
 10-inch Each, 40c.; doz., \$4.00.
 12-inch Each, 60c.; doz., \$7.00.

NOTE—At above prices we will pack the pots carefully, but buyer must pay freight or express charges. We buy in carload lots and the wholesale trade, florists and nurserymen are requested to send for special prices, stating quantity wanted.

Standard Books by Practical Men Who Are Recognized Authorities

In this age of applied sciences you cannot afford to be without the necessary reference books on the subjects that interest you.

All books postpaid at following prices:

Note—C indicates cloth; P, paper cover.

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Fruit Grower, The Practical , Maynard, 128 pages, 5x7 in.	C	.60	Play and Profit in My Garden , Roe, 349 pages, 5x7½ in.	C	1.15
			Potato Culture, A B C of , Terry, 318 pages, 4½x6 in.	P	.50

	Binding Price		Binding Price		
Potato, The, Frazer, 185 pages, 5x7½ in.	C	.85	Soiling Crops and the Silo , Shaw, 366 in., 5x7½ in.	C	1.60
Propagation of Plants, Fuller, 349 pages, 5x7½ in.	C	1.60	Spraying Crops , Weed, 136 pages, 5x7½ in.	C	.60
Pruning Book, The, Bailey, 545 pages, 5x7½ in.	C	1.65	Strawberry Culture, The A B C of , Terry & Root, 235 pages, 5x6 in.	P	.50
Raspberry and Blackberry Culture, New, Litttooy, 42 pages, 3x5½ in.	P	.25	Strawberry Culturist, The Illustrated , Fuller, 59 pages, 5x7 in.	C	.35
Rhubarb Culture, The New, Morse, 130 pages, 5x7½ in.	C	.50	Sweet Potato Culture , Filtz, 86 pages, 5x7½ in.	C	.55
Rose, The, Ellwanger, 310 pages, 4½ x6½ in.	C	1.25	Tomato Culture , Litttooy, 24 pages, 5x7½ in.	P	.25
Rose, Parsons on the, 211 pages, 5x7½ in.	C	1.10	Vegetable Gardening , Green, 252 pages, 5x7½ in.	C	1.10
Roses and How to Grow Them, 189 pages, 5x7½ in.	C	1.10	Violet Culture, Commercial , Galloway, 239 pages, 5x7 in.	C	1.50
Silos, Ensilage and Silage, Miles, 100 pages, 5x7½ in.	C	.60	Violets, How to Make Money Growing , Saltford, 45 pages, 5x6½ in.	P	.30
Small Fruit Culturist, Fuller, 298 pages, 5x7½ in.	C	1.10	Water Lilies and How to Grow Them , Conard & Hus, 228 pages, 5x7½ in.	C	1.10
Ten Acres Enough, 273 pages, 5x7½ in.	C	1.10	Window Flower Garden, The , Heinrich, 123 pages, 5x7½ in.	C	.60

BEE

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Egg Record and Account Book P	.25		Two Hundred Eggs a Year Per Hen and How to Get Them , Warren, 96 pages, 6x9 in.	P	.50
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Pigeon Queries , 46 pages, 5x7½ in.	P	.25			

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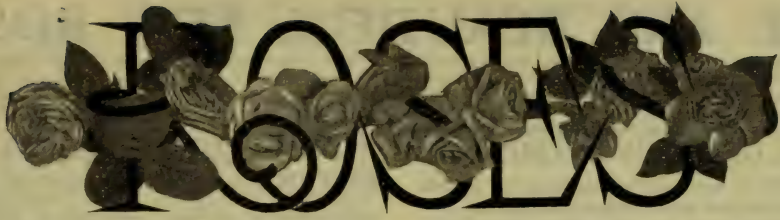
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Raffia. We formerly had Raffia in the natural color only, but now we have it in almost any shade, the popular colors being red, green, yellow, orange, brown, black, blue and purple. Prices: Natural color, ¼ lb. packages, 10c.; postpaid, 15c.; per lb., 25c.; postpaid, 50c.. Colored Raffia, per package, 10c.; postpaid, 12c.; per lb., 75c.; postpaid, \$1.00.

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Samples showing colors of Raffia and sizes of Reeds send for 2 cents to cover postage.



ROSES are a specialty with us and nowhere can you secure finer stock or a more select list. As we offer only the best of the standard varieties, and the newer sorts that have been tested in field trials, you will find them true to name and as represented. Many of the prize-winning roses at the Portland Rose Shows are grown from our stocks, and we number among our customers the most successful rosarians in the Northwest. If you entrust your rose order to us you can feel assured that there will be careful selection and **no substitution**. If you do not find what you want in this catalog, write us. We can supply many varieties not listed.

TWO-YEAR-OLD DORMANT BUSHES.

These are too large to send by mail, and are sent by express at buyer's expense. Order any time from October to May.

Our two-year-old, field-grown roses are very superior, being well branched, 18 to 30 inches high, and well rooted.

ONE-YEAR-OLD MAILING SIZE.

These plants we send by mail, postpaid, at catalog prices.

They are grown in small pots and are healthy and vigorous, having an abundance of roots, and will bloom the first season, excepting some of the Climbers and Hybrid Perpetual varieties, which generally do not bloom until the second year.

NEW ROSES

TEN of the **LATEST EUROPEAN** and **AMERICAN** introductions—These rare new Roses were imported at great expense, especially for Rosarians, who will recognize these varieties as the Gold Medal Roses of the recent exhibitions. They are two-year plants from the leading English and Continental growers, and if you want the latest in Roses, or care to win first in the showroom, don't overlook this opportunity, but order at once, as supply is limited and cannot be replenished.

Special offer of the entire collection of ten sorts, prepaid,

\$10.00

JEAN NOTE (H. T.)—Lovely chrome yellow passing to pale cream yellow; very large well-filled flowers, vigorous and free blooming. Will become a great favorite, as it is a valuable exhibition rose. **Price, \$1.00.**

MADAME P. EULER (H. T.)—Best described as a bright vermilion silvery pink. Very large, full, of perfect form and lasting qualities. Sweet scented and very vigorous. Gold medal rose. **Price, \$1.00.**

MRS. AARON WARD (H. T.)—Color a shade of Indian yellow washed with salmon rose; large size, cup-shaped, very full and very floriferous. Long beautiful buds, petals reflexed. Fine bronze foliage, very hardy and vigorous. **Price, \$1.00.**

DE. O'DONEL BROWN (H. T.)—Color an exquisite shade of carmine rose, strongly perfumed with true attar of roses. Flower largest size of perfect form. Very vigorous, erect and free flowering. Will become one of our most popular garden and exhibition roses. **Price, \$1.50.**

FRIEDRICHSEBUB (T.)—Blood-red, large, full, of perfect form, and flowers continuously; excellent habit of growth. Awarded gold medal at Dusseldorf. A valuable addition to the tea section. **Price, \$1.50.**

MRS. ARTHUR ROBERT WADDELL (H. T.)—Salmon red with reverse of petals pomegranate red. Plant exceedingly vigorous with deep green foliage. Considered by experts to be one of the best roses ever introduced. **Price, \$1.50.**

MRS. DAVID JARDINE (H. T.)—A delightful shade of bright rosy pink, shading in the outer petals to salmon pink. Blooms are large and perfect, produced on every shoot; highly perfumed, vigorous and hardy. Is also one of the finest forcing roses ever introduced. **Price, 75c.**

RHEA REID (H. P.)—A new American rose which can best be described as being as red as a "Richmond," as large as an "American Beauty," with the fragrance of "La France," and blooms continuously, flowers being borne on long stems; very hardy and vigorous. Gold medal Paris, 1908. **Price, \$1.00.**

MARQUISE DE SINETY (H. T.)—Golden orange shading to fiery red, large double flowers, of good form, very beautiful and attractive. A splendid garden rose for summer blooming; vigorous and hardy. One of the grandest of the new roses. **Price, \$1.00.**

LYON (Pernetiana.)—The "Lyon" rose still continues in greater demand than any other rose ever introduced, and stock is very scarce, but by placing our order last season, we have at last secured some splendid plants and can make immediate delivery. The Lyon is a beautiful shrimp pink with salmon and chrome yellow shadings. Large coral red buds beautifully formed; full globular flowers of rare beauty; a continuous and free bloomer. Scored higher than any other rose ever offered, being awarded 100 points. **The perfect rose.** Don't fail to add the "Lyon" to your collection. (See cut page 86). **Price, each, \$1.50.**

"DIAMOND QUALITY" WINS

First Prize for best general exhibit in Class "B"

First Prize for best arranged tables

First Prize for best six Frau Karl Druschki

Was awarded to Mr. W. A. Storey, one of Portland's most successful rosarians, at the 1909 Portland Rose Carnival Exhibition. We have supplied roses to Mr. Storey for several years, and many of his finest roses were grown from our "Diamond Quality" true to name Rose Bushes.

RARE AND BEAUTIFUL NEW ROSES

This list includes the choicest introductions of European and American Hybridizers, each of which we can recommend as being grand sorts, which will become universally popular with growers of fine roses in the Pacific Northwest. Prices given are for two-year-old field-grown bushes, which will bloom early this season. We do not offer one-year-plants of these kinds.

SPECIAL OFFER OF ENTIRE COLLECTION 15 VARIETIES \$8.50 PREPAID

If ordered by mail add 10 cents to the prices listed below, unless you take advantage of our special prepaid offer of the entire collection.



"LYON"

J. B. CLARK (H. T.)—One of the finest of the new roses. Its glorious flowers are intense scarlet, shaded blackish crimson, of giant size, finely formed and fragrant; growth vigorous and upright. **Each, 50c.**

JOSEPH HILL (H. T.)—A rare combination of clear salmon, bright pink and pure gold, large beautifully formed, a distinct rose. Growth very vigorous; flowers borne erect on heavy stiff canes; foliage dark and lustrous. **Each, 60c.**

MADAME MELAINE SOUPERT (H. T.)—Splendid new orange yellow shaded pink; beautiful long-pointed buds, large size, free blooming; a strong, upright grower; best of its color. **Each, 75c.**

MILDRED GRANT (H. P.)—Delicate pale pink, shading to silvery white in center; grand giant variety of rare beauty; perfectly formed, pointed buds; full flowers of fine substance; a hardy strong grower. **Each, 60c.**

MRS. DAVID MCKEE (H. T.)—Creamy yellow; large smooth petals of circular form; flowers of largest size; foliage handsome and erect. Excellent garden or exhibition variety. Gold medal N. R. S. **Each, 60c.**

SOLEIL D'OR (PERN.)—(Golden Sun). The first of a new type and from which the wonderful Lyon Rose was developed. A perpetual bloomer, robust grower, brownish wood, foliage beautiful, bright green and scented. Flowers very double, most beautiful when full blown, a superb color, varying from gold and orange yellow to reddish gold and shaded with nasturtium red. Delightfully fragrant. **Each, 50c.**

BETTY (H. T.)—A very popular new rose of rare new shades of ruddy gold, suffused with golden yellow; blooms of enormous size; delicious perfume; large petals of good substance; foliage massive and beautiful; a true everblooming hardy rose. **Each, 60c.**

CHAS. J. GRAHAME (H. T.)—Large, bright orange crimson, with fine smooth petals; a rare and beautiful color, vigorous grower; a splendid exhibition rose. **Each, 60c.**

COUNTESSE OF GOSFORD (H. T.)—Clear salmon pink, base of petals shading to saffron yellow, very vigorous; perpetual bloomer; a grand bedding variety. **Each, 75c.**

DEAN HOLE (H. T.)—Beautiful silvery carmine, shaded bright golden pink; grand flowers of great substance, perfect in form; vigorous, free branching habit; continuous bloomer; one of the best exhibition roses. Gold medal N. R. S. **Each, 60c.**

ENCHANTRESS (T.)—Blooms with astonishing freedom, bearing its large, globular flowers in immense clusters. The color is creamy-white, slightly tinged with buff in the center; vigorous growth; fine foliage. **Each, 50c.**

GENERAL McARTHUR (H. T.)—Dazzling crimson scarlet, a grand American rose of ideal form, delicious perfume and magnificent foliage. Blooms continuously in great profusion, the grandest red rose for garden or cutting. **Each, 50c.**

HON. INA BINGHAM (H. T.)—Beautiful shade of bright pink, distinct in form and color, of good substance, highly perfumed; a hardy robust garden rose. **Each, 60c.**

HUGH DICKSON (H. T.)—Glowing crimson shaded scarlet; large, full, perfectly formed, delightful perfume, strong grower, perpetual bloomer; a magnificent rose. Gold medal N. R. S. **Each, 50c.**

IRISH ELEGANCE—Large single golden bronze flowers of great beauty, free and constant bloomer, with deep bronze foliage, making a most handsome and unique combination that for garden decoration cannot be excelled. Awarded gold medal N. R. S. **Each, 60c.**

MAD. MELAINE
SOUPERT



ALPHABETICAL LIST OF FINEST GARDEN ROSES.

Our own selection of the best known varieties that cannot be excelled in beauty, vigor of growth or wealth of bloom; strong two-year field-grown plants. Guaranteed true to name. As there is such a bewildering number of names and types of roses, we have arranged on the following pages some splendid collections to suit every need or condition.

⚠ We give descriptions in this list only of varieties not in the collections.

Prices, each, 35c; \$3.00 per dozen, unless otherwise marked.

- Roses on Pages 85 and 86—climbers and ramblers—are not included in this list.
- ADMIRAL DEWEY (H. T.)**—See Diamond collection. Each, 40c.
- AMERICAN BEAUTY (H. P.)**—See Beauty collection.
- ANNA DE DIESBACH (H. P.)**—See Hybrid perpetual collection.
- ANNA OLIVIER (T.)**—A splendid ever bloomer. Very beautiful in bud; flesh color shading to blush. Large and fragrant. Each, 40c.
- BABY RAMBLER (Poly.)**—See Diamond collection. Each, 40c.
- BARON de BONSTETTIN (H. P.)**—See Hybrid perpetual collection.
- BARONESS ROTHCHILD (H. P.)**—Flowers of immense size and fine, globular form, somewhat cupped; color, bright, rosy pink; very handsome.
- BELLE SIEBRECHT (H. T.)**—See Beauty collection.
- BESSIE BROWN (H. T.)**—See Beauty collection. Each, 40c.
- BLACK PRINCE (H. P.)**—Splendid dark crimson flowers, which are shaded so deeply as to be almost black. Cupped, large, full, fine shape.
- BON SILENE (T.)**—See Duchess collection.
- BRIDESMAID (T.)**—See Duchess collection.
- CAPTAIN CHRISTIE (H. P.)**—See Hybrid perpetual collection.
- CAPTAIN HAYWARD H. P.)**—Scarlet crimson, perfect form, sweetly scented; a fine rose.
- CATHERINE MERMET (T.)**—See Duchess collection.
- COMTESSE DE FRIGNEUSE (T.)**—A superb golden yellow, of finest form and substance, strong grower; good keeper; one of our best yellow roses. Each, 50c.
- CONRAD P. MEYER (Rugosa.)**—Beautiful silver pink, of grand form and delicious fragrance, hardy in any climate, and the great beauty of its handsome foliage makes it most valuable for a flowering hedge. Each, 40c.
- COQUETTE DE LYON (T.)**—Lovely canary yellow; immense bloomer; elegant for bedding; one of the best bright yellow roses; blooms quickly and profusely the whole season.
- DUCHESS DE BRABANT (T.)**—See Duchess collection.
- DUCHESS OF ALBANY (H. T.)**—Similar to La France, but more vigorous in growth and much deeper in color. The color is a bright rosy pink, exquisitely shaded. One of the best roses for general planting.
- ETOILE DE LYON (T.)**—This is considered one of the hardiest and best yellow bedding roses in the Tea section. It blooms freely, and every flower is a gem, equaling the Marechal Neil in size. Very sweet scented; color, rich golden yellow.
- ETOILE DE FRANCE (H. T.)**—See Diamond collection. Each, 40c.
- FLORENCE PEMBERTON (H. T.)**—See Killarney collection. Each, 50c.
- FRANZ DUGAN (H. T.)**—See Diamond collection. Each, 40c.
- FRAU KARL DRUSCHKI (H. P.)**—See Killarney collection. Each, 50c.
- GENERAL JACQUEMINOT (H. P.)**—See Hybrid perpetual collection.
- GLOIRE DE MARGOTTIN (H. P.)**—See Hybrid perpetual collection.
- GLOIRE LYONNAISE (H. P.)**—See Hybrid perpetual collection.
- GOLDEN GATE (T.)**—See Beauty collection.
- GRUS AN TEPLITZ (H. T.)**—See Beauty collection.
- HELENA CAMBIER (H. T.)**—See Beauty collection.
- ISABELLA SPEUNT (T.)**—Bright, canary yellow; large, beautiful buds; valuable for cut flowers; very sweet, tea scent; profuse bloomer.
- IVORY (T.)**—See Diamond collection. Each, 40c.
- HELEN GOULD (H. T.)**—An elegant new variety of the popular Hybrid Tea class. Flowers very large and full; produced in wonderful profusion; color, bright, glowing carmine, of a most beautiful shade.
- KAISERIN AUGUSTA VICTORIA (H. T.)**—See Beauty collection.
- KILLARNEY (H. T.)**—See Killarney collection. Each, 50c.
- LA DETROIT (H. T.)**—See Killarney collection. Each, 50c.
- LADY BATTERSEA (H. T.)**—See Diamond collection. Each, 40c.
- LA FRANCE (H. T.)**—See Duchess collection.
- LIBERTY (H. T.)**—Color, rich, fiery ruby, shaded deep crimson; fragrance exquisite, without doubt one of the finest ever-blooming roses in existence. Each, 40c.
- MABEL MORRISON (H. P.)**—Of the purest white; velvety in its appearance; petals thick and shell-shaped; very double and rounded.
- MADAME ABEL CHATENAY (H. T.)**—See Diamond collection. Each, 40c.
- MADAME CAROLINE TESTOUT (H. T.)**—See Beauty collection.
- MADAME DE WATTEVILLE (T.)**—The "Tulip Rose"; creamy white with feathery shading of rose around the edge of the petals, large and full, of good substance, keeps longer when cut than any other rose.
- MADAME FRANCISCA KRUGER (T.)**—See Duchess collection.
- 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.
- MADAME JULES GROLEZ (H. T.)**—See Diamond collection. Each, 40c.
- MADAME WELCHE (T.)**—Flowers have great depth and substance; globular form. Color, a beautiful shade of soft amber-yellow, deepening toward the center to orange-yellow, deepening yellow, decidedly tinged and clouded with a pale, ruddy crimson.
- MAGNA CHARTA (H. P.)**—See Hybrid perpetual collection.
- MAMAN COCHET (T.)**—See Beauty collection.
- MARGARET DICKSON (H. P.)**—See Hybrid perpetual collection.
- MARIE VAN HOUTTE (T.)**—See Duchess collection.
- MRS. B. R. CANT (T.)**—See Beauty collection.
- MRS JOHN LAING (H. P.)**—See Hybrid perpetual collection.
- MRS. R. G. SHARMAN CRAWFORD (H. P.)**—Lovely deep rosy pink, outer petals shaded pale flesh, base white, a new and unique shade. Large, perfect flowers, free blooming; a grand autumn rose. Each, 50c.
- NIPHETOS (T.)**—Large, graceful buds of snow white, remaining in perfect form for many days. No other rose bears buds of this peculiar and elegant form, or that are so enduring.
- PAPA GONTIER (T.)**—See Duchess collection.
- PAUL NEYRON (H. P.)**—See Hybrid perpetual collection.
- PERLE DES JARDINS (T.)**—See Duchess collection.
- PRINCE CAMILLE DE ROHAN (H. P.)**—See Hybrid perpetual collection.
- RAINBOW (T.)**—See Duchess collection.
- RICHMOND (H. T.)**—See Killarney collection. Each, 50c.
- ROSAMANE GRAVEBAUX (H. T.)**—See Diamond collection. Each, 40c.
- SUNSET (T.)**—A rich golden amber of elegant form and delightful fragrance, large perfect buds, fine full flowers.

ALPHABETICAL LIST OF FINEST GARDEN ROSES—Continued.

SAFRANO (T.)—See Duchess collection.

SOUV. DE PIERRE NOTTING (T.)—See Killarney collection. Each, 50c.

STRIPED LA FRANCE (H. T.)—Same beautiful shade as Pink La France, distinctly striped with bright carmine rose; a hardy free bloomer of largest size.

SOUV. DE PRESIDENT CARNOT (H. T.)—See Beauty collection.

THE BRIDE (T.)—See Duchess collection.

ULRICH BRUNNER (H. P.)—See Hybrid perpetual collection.

VIRGINIA B. COKE (H. T.)—See Duchess collection.

VISCOUNTESS FOLKSTONE (H. T.)—See Duchess collection.

WHITE LA FRANCE (H. T.)—See Duchess collection.

WHITE MAMAN COCHET (T.)—See Beauty collection.

KILLARNEY COLLECTION FINE NEW ROSES

Price: One-year-old plants, 20c each. Set of 6 sorts, \$1.00. Two-year-old plants, 50c each.

FLORENCE PEMBERTON—Creamy white, suffused pink. Flowers very large and full, of perfect form and wonderful substance. Without doubt one of the finest roses it has yet been our pleasure to offer.

SOUV. DE PIERRE NOTTING—The bloom is very large, perfectly full, of elegant form; has a beautiful long bud; color, orange yellow, bordered in carmine-rose; vigorous, beautiful dark foliage.

KILLARNEY—The new Irish Beauty. Color, an exquisite shade of deep shell-pink lightened with silvery-pink. Buds are exceptionally long and beautifully formed, the open flower is graceful in the extreme. It has a delicate Tea Rose fragrance. Should be in every collection.

LA DETROIT—A beautiful shell-pink shading in the center to a soft rose-pink. Reverse of outer petals creamy-flesh tint, strong, healthy grower; prolific bloomer; delightful tea fragrance.

RICHMOND (H. T.)—The most vivid of ever-blooming red roses, buds and flowers of the most perfect and desirable form. The best of its color.

FRAU KARL DRUSCHKI—The White American Beauty; the grandest hardy, pure-white rose. Makes splendid buds and immense flowers; perfectly double and delightfully fragrant; large, thick petals; bright, shining green leaves, elegantly veined; a healthy, vigorous grower; and a constant and abundant bloomer.

DIAMOND COLLECTION FINE NEW ROSES

Price: One-year-old plants, 15c each. Set of 10 sorts, \$1.25. Two-year-old plants, 40c each.

ADMIRAL DEWEY—A sport of that peer of roses Madame Caroline Testout, and superior to that sort in many ways. The ground color is a light flesh tint; almost white, suffused blush, deepening to a rosy blush in the center. A large, full rose, with broad, heavy petals, beautifully cupped.

BABY RAMBLER—A dwarf Crimson Rambler not over 18 inches high, producing large trusses of light crimson flowers; clean dark green foliage; perfectly hardy. Being never out of bloom from early spring until late autumn, and if grown indoors it will flower the year round.

ETOILE DE FRANCE—This new crimson rose is of vigorous, healthy growth, strikingly elegant in shape, very full and fragrant, with petals slightly cupped and gracefully recurved; color rich, glowing crimson, shaded with vermilion.

FRANZ DEEGAN—A splendid garden rose of unusual beauty and form; strong, healthy grower. The buds are long and pointed. The open flower is broad and full, rarely showing the center. Color, yellow; bright and pleasing.

IVORY—This beautiful rose is exactly like the well-known Golden Gate, except in color. It is an exceedingly free bloomer, always covered with fine buds and flowers which are large, full and sweet; a clear ivory white.

LADY BATTERSEA—This variety has long, oval buds, sharply pointed, very striking in form. The color is a bright, cherry crimson; an unusually showy variety.

MADAME ABEL CHATENAY—A free bloomer, with flowers of good size and substance. Color, beautiful rosy carmine, with darker shadings. Grand garden sort.

MADAME JULES GROLEZ—A rampant grower, with very large full flowers of a magnificent satin rose color extra fine.

ROSAMANE GRAVERAUX—This variety is of the general style of Pres. Carnot, with an enormous long bud producing very large double open flowers; color, silvery white, with reverse of rosy flesh. One of our finest varieties, possessing all the requirements of a perfect garden rose.

DUCHESS COLLECTION OF BEAUTIFUL ROSES

Price: One-year-old plants, 10c each; set of 14 sorts, \$3.50. Two-year-old bushes, 35c each; set of 14 sorts, \$1.25.

BON SILENE—The buds are handsome and produced in great profusion; color, dark, rosy carmine. A great favorite.

BRIDESMAID—A fine, clear, dark pink, the counterpart of Catherine Mermet but much deeper in color.

CATHERINE MERMET—Faultless in form, and charming in every shade of color, from the purest silvery rose to the exquisite blend of yellow and rose, which illumines the base of the petals.

DUCHESS DE BRABANT—Color, a soft, rosy flesh, changing to deep rose, shaded amber and salmon; delightful tea scent.

LA FRANCE—Both flowers and buds are of grand size; color, a silvery rose changing to pink. A general favorite and the sweetest of all roses.

MADAME FRANCISCA KRUGER—Beautiful coppery yellow, deeply shaded, one of the best bud producers in the open ground.

MARIE VAN HOUTTE—Of a fine, faultless straw-yellow color; outer petals washed and outlined with a bright, rosy carmine.

PERLE DES JARDINS—A clear golden yellow, an indescribably rich and beautiful shade, and entirely distinct.

PAPA GONTIEB—Large and semi-double; a vivid cherry red color, shaded yellow, reverse of petals crimson. No other red Tea Rose can compare with it.

RAINBOW—Buds and flowers of large size; color, a beautiful shade of deep pink, distinctly striped and mottled with brilliant crimson, elegantly shaded and toned with rich amber; very fragrant.

SAFRANO—Bright apricot yellow, tinged, orange and fawn.

THE BRIDE—One of the finest white roses. The buds are very large and of exquisite form; flower is very double.

VISCOUNTESS FOLKSTONE—Flowers borne on strong stems, with thick foliage; color, delicately tinted flesh, almost white, with beautiful satin finish.

WHITE LA FRANCE—This magnificent rose is a pure white La France, having just a breath of rose-tinted blush.

BEAUTY COLLECTION CHOICE ROSES

Price: One-year-old plants, 15c; set of 12 sorts, \$1.50. Two-year-old plants, 35c each; set of 12 sorts, \$3.00.

AMERICAN BEAUTY—One of the largest, sweetest and best. Color, rich, rosy crimson, shaded and veined in the most charming manner.

BESSIE BROWN—Color, pure white, sometimes faintly flushed pink; petals enormous and of shell shape.

BELLE SIEBRECHT—A true, solid pink of the richest shade, a rare color. The flowers are sweetly perfumed, and large, beautifully formed, of long, tapering shape, with high center, and when half blown the petals reflex in a graceful manner.

GOLDEN GATE—Creamy white, center and base of petals soft golden yellow, exquisitely bordered with clear rose; buds long and pointed. Large size, free blooming.

HELEN CAMBIEE—One of the loveliest of coppery yellow roses. A new French rose destined to occupy a prominent place among the many beautiful yellow sorts.

KAISERIN AUG. VICTORIA—A beautiful rose with elegant, large pointed buds and very large, full double flowers; color, delicate creamy white; deliciously fragrant. A strong, healthy grower and constant bloomer.

MADAME CAROLINE TESTOUT—A grand rose of the La France type, but with flow-

ers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. The official "Carnival Rose."

MAMAN COCHET—This is one of the most beautiful new Tea roses we list. The color is a deep, rosy pink, the inner side of the petals silvery rose.

MRS. B. R. CANT—Remarkable for its robust habit and the profuse manner in which it blooms. The flowers are of a beautiful deep rose color on the outer petals, while the inner petals are soft silvery rose, suffused with buff at the base.

SOUV. DE PRESIDENT CARNOT—This is a rose of extraordinary beauty, is elegantly formed, very large, full and deep and deliciously sweet. The color a lovely shell-pink, delicately tinted with golden fawn on rich creamy white. Superb for bedding in open ground. Makes splendid buds for summer cutting.

VIRGINIA R. COXE or **GRUS AN TEPLITZ**—Color, fiery crimson, with a dark velvety sheen, very fragrant. The freest blooming rose in existence.

WHITE MAMAN COCHET—White, grand substance, immense size, exquisitely fragrant, and a free bloomer; buds long and pointed, keeping a long time when cut.

HARDY COLLECTION, HYBRID PERPETUAL

Price: One-year-old plants, 15c each; set of 12 sorts, \$1.25, postpaid. Two-year-old bushes, 35c each; set of 12 sorts, \$3.00.

ANNA DE DIESBACH—Beautiful, clear, carmine pink; very large, full and delightfully fragrant.

BARON DE BONSTETTIN—Splendid, large flowers, very double and full; color, rich dark red.

CAPTAIN CHRISTY—Color is a lovely shade of pale peach, deepening at the center to a rosy crimson.

GENERAL JACQUEMINOT—Bright, shining crimson; very rich and velvety.

GLOIRE DE MARGOTTIN—Brilliant scarlet; the brightest-colored rose yet raised.

GLOBE LYONNAISE—Color, chamois yellow, deepest at the center, passing to creamy white; large, full, sweet and very distinct.

MAGNA CHARTA—Pink, suffused with carmine; very large.

MRS. JOHN LAING—Very free flowering; color, a soft, delicate pink, with satiny tinge.

MARGARET DICKSON—Magnificent form; white, with pale flesh center; petals very large, shell-shaped, and of great substance; fragrant.

PAUL NEYBON—Deep, shining rose, double and handsomely formed; blooms freely, the largest variety in existence.

PRINCE CAMILLE DE ROHAN—Very dark, rich velvety crimson, passing to intense maroon, shaded black; regarded as the best of its color.

ULRICH BRUNNER—A magnificent rose, extra large, bold flowers, full and globular; petals large and of good substance; color, rich, glowing crimson, elegantly flamed with scarlet.

THE CHOICEST CLIMBING ROSES

Price: 1 yr., 15c each. Any four sorts, 50c. Two-year-old plants, 40c each, except where noted.

CAROLINE GOODRICH (C. N.)—(CLIMBING JACQUEMINOT)—Free flowering crimson climber, identical in color with the well-known "Jac."

CHROMATELLA (CLOTH OF GOLD) (C. T.)—A clear, golden yellow; large, very full and double; very fragrant; highly prized for pillars and verandas.

CLIMBING BELLE SIEBRECHT (C. H. T.)—Flowers identical with bush type; foliage dark; vigorous climber; hardy; the finest of its color. Each, 50c.

CLIMBING BRIDESMAID (T.)—Beautiful pink; profuse bloomer; strong; hardy variety.

CLIMBING KAISERIN (MRS. ROBT. PEARY)—Flowers fine, ivory white, of heavy texture, and large size.

CLIMBING LA FRANCE—Identical with the well-known La France, except that it has a vigorous climbing habit.

CLIMBING METEOR—Rapid grower; rich, dark, velvety crimson flowers; perfectly double.

CLIMBING MADAME CAROLINE TESTOUT—Covered during the whole season with

immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

CLIMBING PERLE DES JARDINS—Of vigorous climbing habit; flowers golden yellow, of immense size.

CLIMBING PAPA GONTIER (T.)—A "Native Sport" from the favorite bush Papa Gontier.

DUCHESS D'AUERSTADT—Same type as Marechal Neil, a little deeper in color and much more hardy; a splendid yellow climber.

CLIMBING WOOTTON—This fine rose is a strong, rapid grower, throwing long, thick canes and bearing large clusters of true Woottons.

GLOBE 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.

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.

DOROTHY COLLECTION CLIMBING ROSES

Price: Postpaid, 15c each; set of 6 sorts, 50c. Two-year-old plants, 35c each.

- DOROTHY PERKINS**—A fine new Rose of the Rambler type; color a beautiful bright shell pink flowers, large, very double; petals prettily crinkled; blooms in large clusters of 30 to 40, remain in perfect condition for a long time.
- LA MARQUE**—Flowers of good size, borne in large clusters; color, pure white.
- REVE D'OR (CLIMBING SAFRANO)**—Color, apricot yellow, with orange and fawn tints; petals of superb and delicate texture; very profuse bloomer.
- WILLIAM A. RICHARDSON**—Color, rich coppery yellow, flushed with carmine; a very beautiful variety, having few equals.
- MADAM ALFRED CARRIERE**—Extra large, full flowers, very double and sweet, and a most profuse and persistent bloomer; color, rich, creamy white, faintly tinged pale yellow and blush.
- REINE MARIE HENBIETTE**—A strong, vigorous grower; flowers large, full, and of fine form; color, glowing crimson, elegantly shaded.

THE FAMOUS RAMBLER ROSES

Price: 1-year, 10c each; two-year-old plants, 35c each, except where noted.

The Rambler Roses are strong, vigorous climbers, growing ten to twelve feet high in one season. They bear immense clusters of beautiful, fragrant flowers.

- THE BLUE ROSE**—This is the new rose *Veilchenblau* or *Violet Blue* that has attracted so much attention in Europe, and is the first rose of its color ever produced. *Violet Blue* is a vigorous climber of the polyanthus type, flowers medium size, semi-double, borne in large clusters, color on opening is a rosy lilac, quickly changing to a metallic blue. Choice field grown plants now ready. Each, \$1.00. Order early; stock limited.
- CRIMSON RAMBLER**—Intense, dazzling crimson.
- PINK RAMBLER (PSYCHE)**—Beautiful bright pink, tinged with creamy yellow.
- WHITE RAMBLER (THALIA)**—Pure snowy white.
- YELLOW RAMBLER**—Rich golden yellow.
- PHILADELPHIA RAMBLER**—Deep, rich crimson.

MOSS ROSES

Each, 35c; dozen, \$3.00.

- BLANCHE MOREAU**—Flowers pure white, large, sweetly perfumed; borne in clusters. Best white Moss Rose.
- CRESTED MOSS**—Bright rose, light edging, well mossed.
- CHAPEAU DE NAPOLEON**—Splendid rich red, best of its color.
- SALET**—Color, beautiful satin rose; very full and of great beauty; one of the best.

STANDARD OR TREE ROSES

Prices of all Tree or Standard Roses, \$1.50 to \$2.00 each, according to size of head.

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 backgrounds or rows along walks or driveways. Order any color or variety you wish and we will send it or give you as good a substitute as possible. We aim to have the following varieties in stock: *La France*, *K. A. Victoria*, *Mad. Caroline Testout*, *Ulrich Brunner*, *Gruse* an *Teplitz*, *F. K. Druschki*, *Baby Rambler*, *Louis van Houtte* and *Richmond*.

FRUIT TREES AND BUSHES

Our large 52-page Nursery Catalog contains a complete list with full description and illustrations of Fruit, Shade and Ornamental Trees, Shrubs, Climbers, etc. We would be pleased to mail a copy of it to anyone wishing it. We simply give below and on the following page a condensed price list. Order any varieties you want at following prices. We can supply all reliable and standard sorts.



APPLES.

	Each.	Per 10.
2 years	\$0.30	\$2.75
1 year, 4 to 6 feet.....	.25	2.25

APRICOTS.

2 years .....	.35	3.00
1 year, 4 to 6 feet.....	.30	2.75
Select, 2 years .....	.40	....

CHERRIES.

2 years .....	.50	4.50
1 year, 4 to 6 feet.....	.40	3.75
Select, 2 years.....	.75	....

PEARS.

	Each.	Per 10.
2 year old	\$0.50	\$4.50
1 year old, 4 to 6 feet.....	.40	3.50

PEACHES.

2 year old .....	.40	3.50
1 year old, 4 to 6 feet.....	.35	3.00
Select, 2 year old.....	.50	....

QUINCE.

2 year old .....	.40	3.50
1 year old .....	.35	3.00
Select, 2 year old .....	.50	....

CURRENTS.

2 year old .....	.15	1.25
1 year old .....	.10	.75
Extra large, selected bushes.....	.25	....

CRAB APPLES.

	Each.	Per 10.
Nice stocky trees	\$0.35	\$3.00

PLUMS.

2 years .....	.30	2.50
1 year, 4 to 6 feet.....	.25	2.00
Select, 2 to 3 years.....	.35	....

PRUNES.

2 years .....	.30	2.50
1 year, 4 to 6 feet.....	.25	2.00
Select, 2 to 3 years.....	.35	....

RASPBERRIES.

	Ea.	Per 10.	Per 100.
Best Red Sorts, 2 year.....	\$0.08	\$0.75	\$6.00

BLACK CAP RASPBERRIES.

2 year old .....	.08	.75	6.00
1 year old (January 1)....	.06	.50	4.00

Low prices by the thousand.

GOOSEBERRIES.

2 year old .....	.12	1.00	8.00
1 year old .....	.10	.80	6.00

GRAPES.

2 year old .....	.15	1.50	10.00
1 year old .....	.12	1.00	8.00
Extra large and strong roots ..	.25	....	....

BLACKBERRIES.

Standard sorts .....	.08	.60	5.00
Oregon Evergreen.....	.10	.90	8.00



STRAWBERRY PLANTS

WE have always made a specialty of Strawberries, introducing many of the most successful commercial varieties, and this season we offer the new "Acme," the finest of all main crop Strawberries. We especially direct your attention to the description below and urge growers to give this berry a trial.

CHOICE PLANTS

Our "Diamond Quality" Plants, grown especially for our best trade, are vigorous, large, heavily rooted, with full crowns, and are not to be compared with the inferior ones from commercial beds. They are dug as ordered and packed in ventilated crates of 500 each, crowns up, and if you want the best there is in strawberries be sure you get our "Diamond Quality" plants.

NEW 'ACME'—THE IDEAL COMMERCIAL BERRY.

The Acme is a seedling of large size and same general form as the well known "Clark," but of much richer, more brilliant color. The seeds, being very prominent and of a rich, golden yellow, give the berry a strikingly handsome, distinctive appearance. It ripens early and is a heavy cropper, berries remarkably uniform in size and shape; are also very firm, of finest quality, stand handling better and keep longer than any other strawberry. The Acme is indeed the "acme of perfection," commanding the highest market price. We make this statement only after a thorough test in the open market, extending over three seasons, shipping from near Salem, Ore., to Seattle, Wash.

The dealer handling these berries writes as follows:

"They were beautiful berries and sold well, bringing 25 cents more than Clark Seedlings."
(Signed) **WALTER BOWEN & CO.,** Seattle, Wash.

These berries were grown side by side with the Clark under the same condition and sold in the same market where Clarks have always commanded the highest prices.

If you are growing strawberries for market be sure to give the Acme a trial. We are offering it at the following very low prices, as it is so good we want everyone to plant it. We know it will please you and be a good advertisement for us.

Price, postpaid Doz., 50c.; 100, \$2.50
Freight or express 100, \$2.00; 1000, \$12.00

GOLD DOLLAR

Extra Early Strawberry.

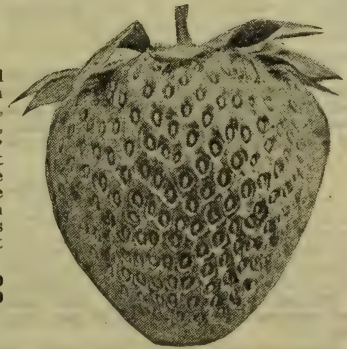
Gold Dollar berries are large size, dark red all through and have a fine flavor. Foliage heavy, large and spreading, which protects the blooms from early frosts. Has a perfect bloom, and strong stems that hold the berries up from the ground, which helps to keep color and flavor during the early rainy season. A very heavy cropper. Keeps up in size throughout the season. "Gold Dollar" is now recognized by the trade and is sold under its own name, having in the short time since introduction created a demand and won a recognition never before accorded a strawberry. If you grow strawberries you cannot afford to be without this splendid early berry. It gets the highest early prices.

Price, postpaid, doz., 50c.; 100, \$1.50
Freight or express, 100, \$1.00; 1000, \$7.00

NEW OREGON

This splendid berry was introduced by us six years ago, and for a general purpose or fancy market berry has no equal. The color is a rich dark red, extending to the center; berries very large, averaging 15 to the quart; firm, and of fine even form; flavor is rich, sweet and delicious; has no equal as a table or canning variety. The New Oregon is very early and continues in bearing until frost.

Price: See list on following page.



GOLD DOLLAR.

ONE CUSTOMER WRITES:

Since May the 10th we have never been out of "New Oregon," and on August 1st from four rows, 100 feet long, we picked seven gallons of choice berries. At this date, August 3, the plants are in full bloom.

IF YOU GROW BUT ONE VARIETY OF STRAWBERRIES, MAKE IT THE NEW OREGON.

STRAWBERRIES—Continued

Popular and Best Western Sorts

ADMIRAL DEWEY

Very firm, good shipper and unexcelled for canning. Color, beautiful dark red, extending to the center; no white core; shape conical, much like Clark's Seedling; of excellent flavor; a very early, abundant and continuous bearer; might be classed as an everbearing. Flavor resembles that of the wild strawberry.

MARSHALL

One of the best all-round strawberries; very large; dark crimson throughout; fine flavor; a fine market and table berry.

CLARK'S SEEDLING

The berry that has made Hood River famous; best shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to dry soil.

WILSON

An old standard variety; a heavy bearer of fine, moderate sized berries; sharp acid flavor and the leading sort for canning.

MAGOON

Originated near Portland; berry large, fine and excellent; sub-acid flavor; bears heavily throughout the season; especially adapted to Western Oregon and Washington.

GANDY

A profitable market sort; its season is late to very late, being in its prime when most other sorts are gone. The fruit is large, handsome and uniform, and makes an excellent showing on the market; of excellent quality and a good shipper.

PRICE LIST OF PLANTS.

	Dozen.	100	100	1000
Admiral Dewey	\$0.30	\$1.25	\$0.75	\$5.00
Clark's Seedling .....	.25	1.00	.60	4.50
Gandy .....	.30	1.25	.75	5.00
Magoon .....	.25	1.00	.60	4.50
Marshall .....	.30	1.25	.75	5.00
New Oregon—Improved .....	.40	1.50	1.00	7.00
Wilson .....	.25	1.00	.60	4.50

Not less than 500 plants of a kind at 1000 rate.

Special prices on 3000 or more.

FREE

On request, our 32-page book on Strawberry Culture. Complete and up-to-date. Things you should know about STRAWBERRIES

FREE

SPECIALTIES IN BERRIES FOR MARKET OR GARDEN

THE BEST EARLY BLACK CAP

THE "CONRATH."

A black raspberry of superior quality, being ten days earlier than Gregg, coming in with the earliest reds. The berries exhibited in our stores were superior in size, flavor and keeping quality. We especially recommend the Conrath as the best "blackcap" for Oregon. Try it.

Choice, well rooted plants, each, 15c; 10, \$1.25, postpaid.

Freight or express, 10, \$1.00; 100, \$8.00.

BURBANK'S PHENOMENAL.

Color a bright clear crimson; largest berry ever grown; is sweeter than Logan and will far outyield that variety.

Compared with the Logan the color and general form are much the same the first season, particularly if the growing conditions have not been favorable, but when once established they have no equal in size, quality or productiveness.

Prices: Two-year-old, 25c each; \$2.50 per doz., postpaid; by express or freight, \$2.00 per doz.; \$15.00 per 100. One-year-old (tips), each, 15c; \$1.25 per doz., postpaid; by express or freight, \$1.00 per doz.; \$7.50 per 100.

LOGAN BERRY.

(Raspberry-Blackberry.)

An exceedingly strong grower. The fruit is larger than the blackberry; color, dark red and produced in immense clusters. Has the flavor of both the blackberry and raspberry. Fruit ripens early, the bulk being gone before the blackberries or raspberries become plentiful.

Prices: Two-year-old, 20c each, postpaid; by express or freight \$1.75 per doz.; \$12.50 per 100.

One-year-old (tips), 15c each; per 12, \$1.50, postpaid; by express or freight, \$1.00 per 10; \$7.50 per 100. Low prices by the thousand.

DEWBERRY, LUCRETIA.

A trailing variety of the blackberry, ripening between the raspberry and the blackberry. Fruit, large, handsome, sweet and luscious.

Price: Each, 15c; per 10, \$1.25, postpaid. By express or freight, \$1.00 per 10; \$7.50 per 100.

BLACKBERRY, ELDORADO.

A valuable new variety; fruit large, jet black, melting, sweet, and rich; hardy and very productive, fine for Oregon.

Postpaid, each, 15c; 10, \$1.25. By express or freight, each, 10c; 10, 90c; 100, \$8.00.

HIMALAYA GIANT.

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. Its deep rooting qualities enable it to produce a large, firm berry even in a very dry season.

Each, 20c; dozen, \$2.00, postpaid. Freight or express, each, 15c; doz., \$1.50; 100, \$10.00.

NEW MAMMOTH.

This wonderful blackberry is a vigorous grower, of trailing habit; the foliage is large, thick, of a deep green color. It is enormously productive and exceedingly early, ripening three weeks before other cultivated kinds. Fruit is enormous, specimens measuring 2½ inches long; seeds small, soft and abundant; cores small and soft. In size and flavor it surpasses all other varieties of blackberries.

Prices: Two years old, each, 25c; 10, postpaid, \$2.00; 10, by express or freight, \$1.75; 100, \$15.00.

One year old (tips), each, 15c; 10, \$1.25, postpaid; by express or freight, 10, \$1.00; 100, \$8.00.

THE IMPROVED SUPERLATIVE RASPBERRY.

A Berry of Great Merit.

The color is a velvet red crimson. The berry large and firm, with very small, brittle seeds. The healthy, vigorous growth, remarkable productiveness, hardness, immense size, handsome, uniform shape and rich luscious flavor make the "Superlative" peerless among raspberries, and from the shippers' standpoint a most desirable berry, for it is firm, disease-resisting and nearly a week earlier than the Cuthbert in ripening.

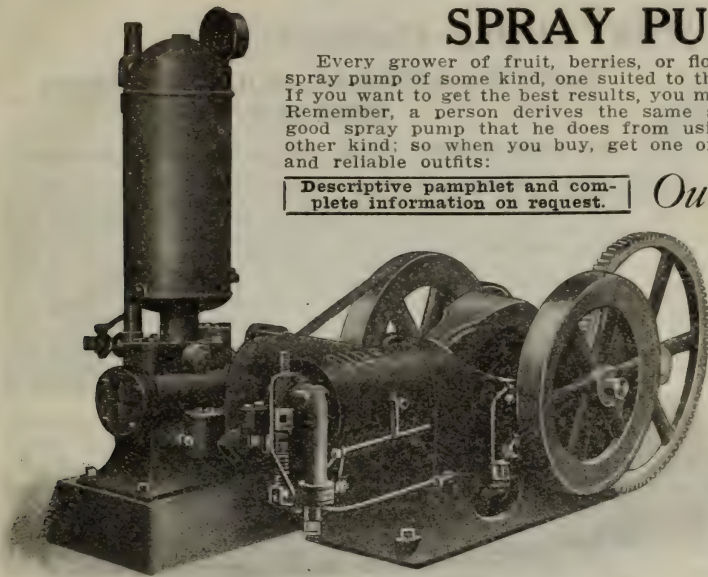
Price: Each, 20c; doz., \$2.00; freight or express, 1 doz., \$2.00; 100, \$12.50.

SPRAY PUMPS

Every grower of fruit, berries, or flowers should have a good spray pump of some kind, one suited to the work that is to be done. If you want to get the best results, you must spray and spray often. Remember, a person derives the same satisfaction from using a good spray pump that he does from using a good article of any other kind; so when you buy, get one of the following up-to-date and reliable outfits:

Descriptive pamphlet and complete information on request.

Our Power Outfit



SPECIAL.
We assemble outfits in any manner desired by customer, and will suggest the right attachments for special purposes.
Engine can be detached from pump in 5 minutes—has 6-inch drive pulley, which adapts it to every need.

VICE-ADMIRAL SPRAY PUMP ATTACHED TO OUR GAS ENGINE.

Recognizing the great demand for a spraying outfit that is right and will meet the requirements of the farmers and orchardists, we have for some time past had practical men in the field thoroughly investigating the conditions under which these engines must run and the equipment which would be best for this purpose.

As a result of this work, we have gone at the question from the user's standpoint. We have secured a line of apparatus which we think, on careful examination, you will agree is the best thing for the purpose to be found on the American market today.

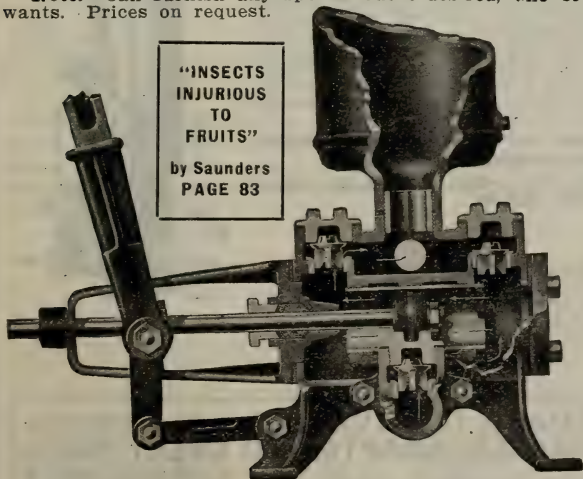
The Portland Seed Co.'s Spray Outfit is composed of an air-cooled "Olds" Horizontal, Four-Cycle Gasoline Engine, directly connected by means of gears to a Gould's Vice-Admiral Spray Pump. This engine, instead of having the old style, heavy, cumbersome, water-cooled cylinder, is equipped with an up-to-date air-cooled cylinder. The cylinder is cooled by means of a fan driven by a belt from the fly-wheel. This fan drives a strong air-blast around the cylinder and through the numerous flanges, which are cast on the outside of the cylinder. The air is compelled to circulate round the cylinder by means of a sheet metal jacket surrounding nearly two-thirds of the entire cylinder.

Outfit complete, comprising 2 1/2 to 3 H. P. engine, connected to Gould's Vice-Admiral Pump, mounted on base, with relief valve and pressure gauge, two 25-foot leads of best 7-ply spray hose; two 8-foot bamboo extension rods, with nozzle and cutoff; weight 700 pounds	\$205.00
Same outfit, with 4 leads, best spray hose, 4 extension rods and nozzles	218.00
Engine only, with gearing	160.00
Pump only	30.00
7-ply, best spray hose, per foot	.18
Extension rods, 8-foot, complete with cut-off	1.50
Spray nozzles	75c. to 2.00

Note.—Can furnish any special outfit desired, one or more leads of hose, etc. State your wants. Prices on request.

"INSECTS
INJURIOUS
TO
FRUITS"

by Saunders
PAGE 83



ALWAYS READY.

Waverly, Wash., Nov. 8, 1909.
Gentlemen: The spraying outfit you sold me last spring has given entire satisfaction. The rig consisted of a 3 horse-power Olds Air-Cooled Engine, Gould's Fig. 1509 Vice-Admiral Pump, 200-gallon tank, etc. Sprayed several times during season with different mixtures, and found it did the work effectually, maintaining 135 to 200 pounds pressure easily with two leads of hose. Since spraying season closed, have used the engine for other power purposes and during the entire time in use it has never been out of order to exceed ten minutes.

I can now fully endorse the statement you made last spring, "that you were offering the best spraying outfit on the market."

Yours truly,
(Signed) W. E. MANN.

SECTIONAL VIEW OF GOULD'S "ADMIRAL."

'Spraying Crops'

WEED
Page 83.

SPRAY PUMPS—Continued

GOULD'S ADMIRAL DOUBLE ACTING SPRAYER

For Large Orchards, Parks, Groves, Etc.—Very Powerful.

The "Admiral" is double acting and produces a steady stream at the nozzle; is built for continuous hard work and high pressure. Especially designed for large orchards, and will meet every requirement. The brass cylinder lining is of heavy seamless tubing, with a cast bronze cylinder head, and can be easily removed, as shown in the engraving. This is an important feature, as the gritty nature of many of the spray mixtures has a tendency to cut the cylinder lining, and when it is badly worn it can be replaced at small cost. The valves are all brass, and each one in a separate valve box. They are easily reached by removing the bronze valve box corners. The brass piston rod is outside guided, making a perfectly straight thrust through the stuffing box, which is outside packed.

The removable malleable iron lever is long and powerful, and with the large air chamber a high pressure can be easily maintained. Suction can be taken from either side of the pump, and there are two discharge openings fitted for 1/2-inch hose. When ordered without hose or nozzle, both discharges have half couplings for 1/2-inch hose and a brass strainer.

This Sprayer is of sufficient capacity to supply, if necessary, four leads of hose, or two leads, each with two, three or four nozzles, and will be found fully as serviceable as a power sprayer for orchards not large enough to warrant the purchase of a power outfit.

This same pump fitted with a pitman in place of lever for connection to gasoline engine.

Outfit A.—Pump only, with strainer and suction hose coupling \$30.00

Outfit B.—Pump with 8 feet suction hose and strainer.. 32.75

Outfit C.—Pump with 8 feet suction hose, two 25-foot leads best 1/2-inch hose, two 8-foot bamboo extensions, with Globe valves and nozzles.... 40.00

Admiral Pump with 3-inch cylinder furnished on any of above outfits for \$5.60 extra.

For pressure gauge, add \$1.50.

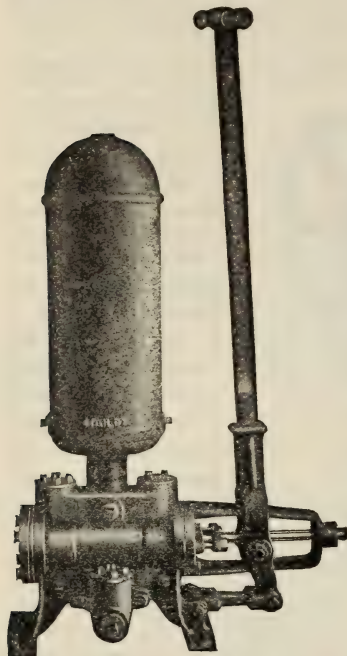


Fig. 1508. ADMIRAL.

We recommend the use of a pressure gauge on all large pumps, as it accurately tells the force of spray when delivered.

MONARCH TWO-CYLINDER SPRAY PUMP

Fig. 1506, **Monarch**.—This pump has many advantages, and we believe it is the best of the large pumps. The main advantages are: First, the long lever, which can be shifted to pull or push, or to lift or drop, and can be changed by the operator any time he desires a relief; second, pump stands outside of the barrel, and all parts can be easily looked after; third, cylinders are perpendicular, and any grit will not lie against the plunger to wear it or the packing out, as is the case with the horizontal cylinders; fourth, there are no valves in the plungers; the packing is on the outside, and can be tightened any time, without taking anything to pieces; fifth, the four brass valves (each one by itself and under a separate cap), can be reached by merely unscrewing the cap, and without disturbing the rest of the pump.

Outfit A, pump only, including strainer and hose connection, \$24.25.

Outfit B, coupled with 6 feet 3/4-inch suction hose, \$26.00.

Outfit C, pump, suction hose, 25 feet best 1/2-inch spray hose, 8-foot bamboo extension Globe valve and nozzle, \$33.00.

For pressure gauge, add \$1.50.

SPREADS AND PENETRATES.

An inexperienced or careless man can do a thorough job with Scalecide where he would fail to get a good distribution with Lime and Sulphur. Page 99.

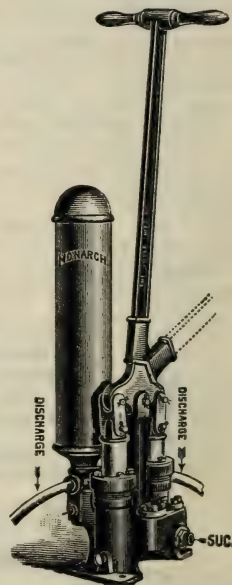


Fig. 1506. MONARCH.

PLANET JR. SPECIAL ORCHARD CULTIVATORS ARE STRONG,
LIGHT, EASY RUNNING, DURABLE, ADAPTED TO EVERY NEED.

—PAGE 106-8

GOULD'S POMONA

Our Leading Barrel Pump.

Fig. 1100.—“Pomona” Spray Pump has won for itself an enviable reputation. We unhesitatingly offer it as the best orchard spray pump for mounting in a barrel. It has great power and capacity. Briefly stated, other points of superiority are: No leather packings, consequently no hardened and useless valves. All working parts bronze, including plunger, gland, valves, valve seats, etc. Plunger is outside packed. Valves are easily accessible. Air chamber is very large and of steel, free from imperfections of cast iron. Lever long and powerful, with adjustable stroke, three, four or five inches. The agitator, as shown in the cut, is operated by the stroke of the handle, so whenever any liquid is pumped it is thoroughly agitated. Pump is held securely by small anchor located at bottom of barrel, and by adjustable clamp plate at the top. New plate admits insertion or withdrawal from barrel without removing the agitator.

Outfit A.—Pump only \$15.00

Outfit B.—Pump with 12½ feet ½-inch best 5-ply spray hose, one Vermorel nozzle, one 8-foot bamboo extension, with cut-off, all complete 19.25

Outfit C.—Same as Outfit B, except we furnish a good hardwood barrel and mount the outfit.....\$21.75

Outfit D.—This is our regular Pomona outfit, the best barrel pump outfit that can be bought. It consists of one No. 1100 pump with two 12½-foot leads of best 5-ply spray hose, two Vermorel or Seneca nozzles, two 8-foot bamboo extensions, with cut-off; all in working order and mounted in barrel 25.00



POMONA.
Fig. 1100.



FRUITALL
Fig. 1188.

FRUITALL

Fig. 1188.—“Fruitall” Spray Pump is made on the same general lines as our famous “Pomona.” It is, however, made lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer are made of brass. Pump is held in barrel by anchor at bottom and adjustable clamp at top, fitting over end of stave. Not made for side of barrel.

Outfit A.—Pump only \$11.00

Outfit B.—Pump with 12½ feet 5-ply spray hose and one Vermorel nozzle, all complete.. 14.00

Note.—Extra 5-ply hose at 13½c. per foot.

GOULD'S STANDARD SPRAYER

Powerful, Large Capacity, Durable.

The “Standard” Sprayer is made with a 2½-inch cylinder. The cylinder is brass-lined, the plunger brass-encased and the valves are brass, making all working parts proof against the spraying mixtures. The plunger is easily repacked without taking the sprayer to pieces, and is unusually large, known as a “differential” plunger, which produces a continuous stream of liquid from the nozzle, similar to the action of a double-acting pump. The large standard provides an ample air chamber. The base is made so as to fit either the end or side of a barrel.

Outfit A.—Pump and strainer only \$ 7.50

Outfit B.—Pump with agitator and suction pipe..... 9.00

Outfit C.—Same as B, with 1 12½-foot lead of hose and nozzle 12.00

Outfit D.—Same as C, with 2 12½-foot leads of hose and nozzle 15.75

Outfit E.—Same as D, with 2 bamboo extensions and globe valves 18.50

we supply a barrel and mount sprayer for \$1.75 extra.



BETTER THAN HOME-MADE.

Dear Sirs: I have just used the Lime and Sulphur Solution purchased from you some time ago. I find it much nicer to handle than the home-made product. I expect to spray my entire orchard next winter with it. Yours respectfully,
WILLIAM BOEGLI.

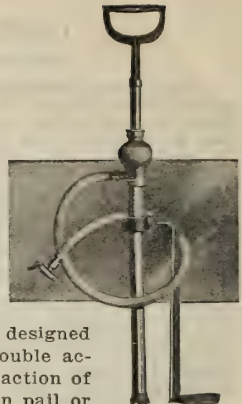
April 2, 1909.

PORTLAND SEED COMPANY'S
SPRAY PUMPS—Continued

PREMIER BUCKET PUMP.

Fig. 561½. Brass bucket pump, arranged with suction and discharge hose and spray nozzle, which will throw a solid stream or a fine spray. Pump has brass cylinder, plunger and rod, and is particularly adapted for washing windows and wagons, spraying flowers in conservatories, gardens, etc.

Price, complete, \$5.75.



BORDEAUX BUCKET PUMP.

Fig. 1129. Brass garden and spray pump; is especially designed for spraying in gardens and greenhouses. The pump is double action in effect; Seneca nozzle, ball valves; proof against the action of acids and oils. Footpiece is malleable iron. Pump is set in pail or

FIG. 561½. bucket, with foot rest outside.

Price, complete, \$4.50. FIG 1129.

PORTLAND SEED CO.'S BUCKET PUMP.

This little pump is very convenient for all sorts of small work. Has brass cylinder and valves, two nozzles, for fine or coarse work. The best low-priced pump on the market.

Price, \$2.75.



KNAPSACK PUMP.

Fig. 1323. Consists of a five-gallon galvanized tank, inside of which is a brass pump; provided with straps for carrying on the back, or may be used as a bucket sprayer by removing long lever and operating pump by handle at top.

Price, \$8.00.



NEW BANNER COMPRESSED AIR SPRAYER.

Holds four gallons, is made with double flanged heads, to stand a heavy pressure; is 7 inches in diameter, by 21 inches in height. The pump is made of heavy brass and screwed in with heavy machine-cut threads. The Banner is provided with a safety valve to prevent overpressure. The automatic lever nozzle is made of solid brass, is the latest improvement in nozzles, and will throw a stream of fine spray with no waste. A few strokes of the pump produce sufficient pressure to spray out the contents. There are no complicated parts. We have tried all the compressed sprayers to date, and recommend the Banner as the newest and best, most durable and efficient.

Price: Galv. Iron, \$5.50; Solid Brass, \$7.00. 3-foot Brass Extension Rods extra, each, 60c.

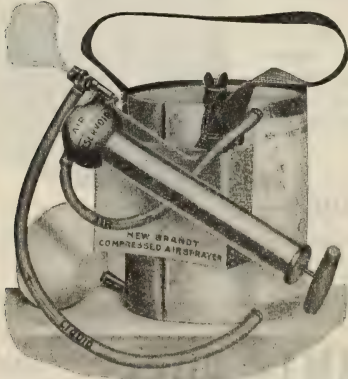
NEW BANNER.

P. S. CO.'S BUCKET PUMP.

BRANDT SPRAYER.

The new Brandt is the latest hand pressure sprayer, and possesses many advantages, chief of which is the method of maintaining the pressure by operating the pump while directing the spray; no stopping to "pump up."

The Brandt holds 3 gallons, works easy, and one filling of the tank will spray a row a mile long. Galvanized steel, price, each, \$6.25. Copper, price, each, \$8.00.



BRANDT SPRAYER.



KNAPSACK. 1323.

SPRAYERS AND SPRINKLERS

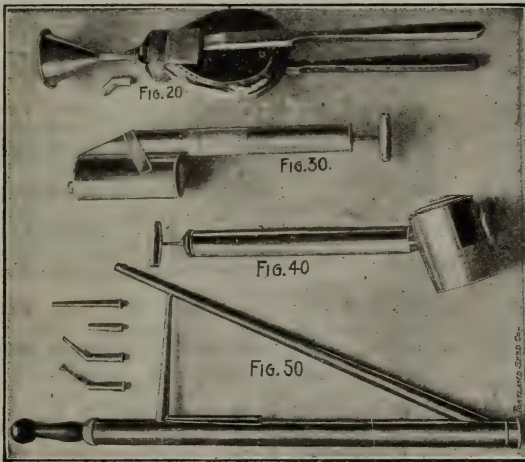
PORTLAND SEED CO.'S DIAMOND HAND SPRAYER

This is the best hand sprayer to date; has a compressed air chamber, which makes the pressure continuous; has brass nozzle adjustable to spray, fine or coarse; brass ball valve; is simple in construction, light and durable; works easy. **Price, \$1.00.**



APHISCIDE, for Aphis on Roses. Instantly effective. Page 101.

SO-BOS-SO—THE ONLY REAL FLY BOUNCER—PAGE 108.



ASPINWALL SPRAYER

Fig. 30. One of the most convenient and economical hand sprayers for applying liquid lice-killers, sprays, etc. Nothing cheap but the price. **Price, 50c.; charges paid, 75c.**

SMITH'S PATENT FORCE PUMP

Fig. 50. Just the thing for white-washing your henhouse, washing windows, and other light work. Fine for sprinkling the garden; handy in case of fire. Tin; four nozzles. **Price, \$1.00.**

LIGHTNING SPRAYER No.1

Double tube angle discharge, enabling the operator to spray up under the leaves. Best sprayer for small plants and bushes. **Each, 50c.**

ELECTRIC SPRAYER, Fig. 40

Specially made for dairy and stockmen, for use in applying fly-killers; strong and durable. **Price, 75c.**

ASPINWALL POWDER SPRAYER

Fig. 20. Excellent for blowing powder on vines and bushes; good size and works fine. **Price, \$1.15.**

PLANT SPRINKLERS

These little hand sprinklers are used by all florists for spraying pot plants with water or insecticide. They are made of the best quality of rubber, and are durable and lasting. Made in two styles, straight and angle neck. Will spray in any position, and can be quickly filled. (See cut.)

- | | | |
|--------|----------------------------|--------------------------------|
| No. 1. | 5-oz., Straight neck..... | Each, \$0.60; postpaid, \$0.65 |
| No. 3. | 10-oz., Straight neck..... | Each, 1.00; postpaid, 1.10 |
| No. 1. | 5-oz., Angle neck..... | Each, \$0.65; postpaid, \$0.70 |
| No. 3. | 10-oz., Angle neck..... | Each, 1.10; postpaid, 1.20 |



PACIFIC LAWN SPRINKLER

Properly constructed iron stand, upper part all brass. Turns with small force. **Price, \$1.25.**

C. B. G. Cheap, but good. Best cheap sprinkler. **Price, 35c.**
BUSY. A regular water filter; runs easy. **Price, \$1.00.**



PACIFIC.

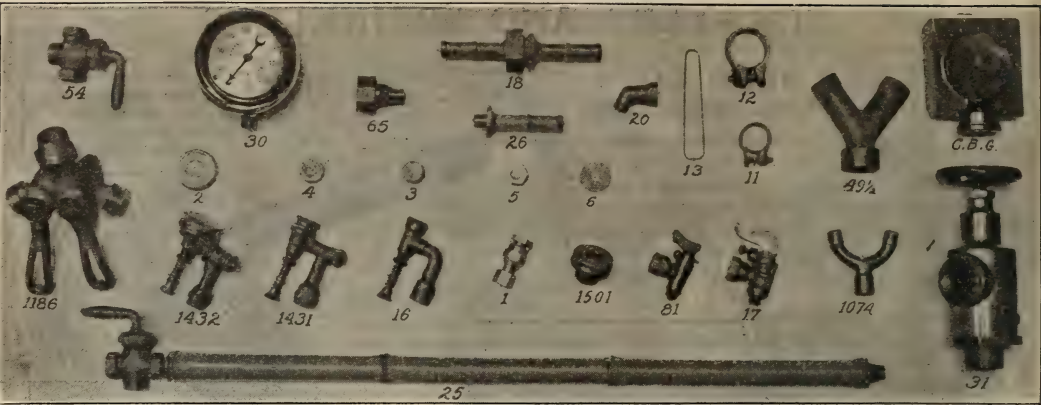


BUSY.

KINNEY SIPHON PUMP

No florist or gardener can afford to be without this practical device. It is invaluable for applying liquid manure, spraying, tempering water or drawing water out of furnace pits; made of solid brass; will last a lifetime. **Price, each, \$2.50; postpaid, \$2.75.**

FOR FINEST LAWNS—Use "Diamond Mixture." Page 38.



NOZZLES, CONNECTIONS AND HOSE SUPPLIES

Fig 1501, **Mistry Jr.** Best hop nozzle; throws a perfect spray; of greater capacity and a great improvement over other nozzles; produces a fog in great volume at a light pressure.

Price, \$1.25; extra disc, Fig. 6, 25c.

Fig. 1431, **Mistry Nozzle.** The latest thing in spray nozzles. It produces a perfect mist or fog with small pressure.

Price, \$1.00; extra cap, Fig. 4, 15c.

Fig. 1432, **Large Mistry.** Same as above, but is larger, and has a swivel adjustment, which allows the spray to be thrown at any desired angle.

Price, \$2.00; extra cap, Fig. 2, 30c.

Fig. 16, **Vermorel Nozzle.** With degorger, affords a conical discharge. Very popular.

Price, 75c.; extra cap, Fig. 3, 20c.

Two-Discharge Vermorel. Covers twice the surface sprayed by the single nozzle. It is the nozzle for general orchard work. Price, \$1.75.

Fig. 81, **Seneca.** Gives a very wide spray; discharge easily graduated. Price, \$0.75

Fig. 1, **Bean's Best.** Best long-distance nozzle. Price, 75c.; extra cap, Fig. 5, 20c.

Fig. 17, **Bordeaux.** Use this nozzle for whitewashing. Price, \$0.75.

Fig. 51, **Cyclone Nozzle,** with side discharge. Price, \$0.75.

Fig. 20, **Nozzle Ell.** Price, \$0.25.

Fig. 30, **Pressure Gauge.** Price, \$1.50.

Fig. 31, **Relief Valve.** Price, \$4.00.

Fig. 26, **Hose Connection.** Price, \$0.25.

Fig. 65, **Hose Reducer.** Price, \$0.30.

Fig. 1186, **Double Cut-off.** Price, \$2.00.

Fig. 49 1/2, **Brass Y,** 3/4-inch, for hose coupling. Price, \$0.75.

Fig. 1074, **Brass Y,** 1/4-inch, for nozzle only. Price, \$0.50.

Figs. 11-12, **Brass Yerdon's Bands,** 1/2 or 3/4-inch. Postpaid, each, 5c.; doz., \$0.50.

Fig. 13, **Caldwell Bands.**

Per doz., postpaid, 1/2-inch, 25c; 3/4-in. \$0.30.

Gem Hose Nozzle. One of the best for yard use. Price, 45c.; postpaid, \$0.60.

Fig. 25, **Bamboo Extension.** Has iron pipe inside of bamboo, threaded for nozzles and stopcock. Price, with stopcock (Fig. 34)—

Bamboo Iron.		Bamboo Iron.	
2 to 4 ft.	\$1.25	\$0.90	10 ft. \$1.65
6 ft.	1.35	1.00	12 ft. 1.80
8 ft.	1.50	1.10	

Fig. 54, **Stopcock.** Price, \$0.60.

Fig. 18, **Hose Coupling,** 2 1/2-inch shank, for heavy pressure spraying.

For 1/2-inch hose, price, per pair, \$0.65.

Hose Couplings, for garden hose, 1/2-inch or 3/4-inch, complete. Price, postpaid, \$0.25.

Hose Washers. 1/2-inch, rubber. Doz., \$0.10.

THE "LENOX" NOZZLE.

For Cold Water, Paint and Whitewashing.

Fig. 1495. Made especially for whitewashing and other methods of painting. It has a large opening inside, with rounding corners, to prevent clogging. The spray opening has steel disc and a lower cap, which can be removed for cleaning at any time. This nozzle is superior to any on the market for this purpose. Price, 75c.



1495

PORTLAND SEED COMPANY'S HANDY CARTS.

All metal parts malleable steel, strong, light, easy to wheel.

NO. 1 PLATFORM. Best cart for general use. Will carry four large milk cans, sacks of potatoes, wood, barrels—in fact, anything heavy can be easily and quickly handled. Platform 27x30 inches; 36-inch wheel; 2 1/2-inch elliptical tire. Neatly finished and painted. Weight complete, K. D., 85 pounds. Price, \$8.75.

NUMBER 4 BARREL CART.

Will pick up any kind or size of barrel from a lime to large spray barrel, holding it firmly; no attachment necessary on the barrel. Contents can be emptied by simply raising the handles. Has 36-inch wheels, 2 1/2-inch elliptical rims, 1/2-inch steel axle; weighs, K. D., 70 pounds.

Price, \$8.00.




NO. 4, BARREL.



NO. 1, PLATFORM.

SPRAYS, SPRAY MATERIAL AND WASHES

FOR DESTROYING INSECTS, SCALE, ETC.

 Liquid sprays cannot be mailed. Solid sprays, 16c. lb. extra for postage.

SCALECIDE

The best commercial spray for San Jose scale and all soft-bodied, sucking insects.

Also contains a powerful fungicide, which will control all fungus diseases that are controllable in the dormant season.

This assertion is not based on a single test on ten or a dozen trees, but on actual work in great commercial orchards, where thousands of gallons of spray were used. "Scalecide" is a petroleum oil that mixes at once with cold water in any proportion, and stays mixed. It is not necessary to use an extra tank or barrel, and no hot water should be used. Can be prepared in an instant at the spring or creek nearest to the orchard by simply adding one gallon of "Scalecide" for every fifteen or twenty gallons of water, right into your spray tank. No crude oil is used in the manufacture of "Scalecide," all the light and heavy oils that might prove injurious being removed—but all of the soluble sulphur is retained; this has the insecticidal value. That "Scalecide" is an absolutely unfailing remedy for San Jose Scale is attested to by thousands who have used it. Price per gal., \$1.00; 5 gals., \$4.00; 10 gals., \$7.50; 50-gal. bbl., \$28.50. Send for free sample and printed matter concerning "Scalecide."

PORTLAND SEED CO.'S

APHISCIDE

BEST SUMMER SPRAY FOR ROSES

The cleanest, surest, safest spray for aphids, thrip, or any insect life on plants of any kind. You can use it on your house plants. It is odorless, colorless, and will not stain the most delicate fabric, nor injure your plants in any way. Is instantly effective.

Price, quart, 25c; gallon, 60c.

NIAGARA LIME AND SULPHUR SOLUTION

For San Jose Scale.

The "Lime and Sulphur Solution" for San Jose scale is endorsed by experiment stations and state horticultural societies of all the fruit-growing states. It is recognized and recommended as the best known preparation for exterminating San Jose scale on all deciduous trees.

Our Lime and Sulphur Solution is made of the purest and best quality of Sublimed Sulphur and of Lime that tests 99.98 per cent pure. It is a clear, deep cherry colored liquid, free from sediment. It is a beautiful product, is very reasonable in price, and its work is perfect. It is all ready to mix just as you get it. Merely add 11 gallons of water with each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves fuel, time, labor and annoyance. It is always alike and uniform in strength and results.

Price, 1 gal., 60c.; 5 gals., \$1.90; 10 gals., \$3.60; 50-gal. bbl., \$10.00.

Arsenate of Lead. The best and latest insecticide for all leaf-eating insects. It will not burn the foliage, and stays on the trees longer than any other spray-made.

1-lb. can, 30c.; 2-lb. can, 50c.; 5-lb. can, \$1.00; 10 lbs., \$1.80; 25 lbs., \$4.25; 100-lb. keg, \$15.

Bordeaux Mixture. For fungi; in liquid form. Dilute with 49 parts water.

1 qt., 60c.; 1 gal., \$1.50.

Blue Label Slug Destroyer. This is the first powder of its kind that we ever found to positively kill slugs and keep them away from young plants. Full directions on each package. Put up in 25c., 50c., and \$1.00 packages.

25c. package will be sent by mail, postpaid, for 35c.

Bluestone (Vitriol).

Lb., 15c.; per 100 lbs., market price.

Buhach. Per oz., 10c.; ¼ lb., 25c; lb., 75c.

Bug Death. A non-poisonous insect-killing powder that is in high favor among gardeners for cabbage, tomato and cucumber bugs, etc. Use 12 lbs. per acre. Lb., 15c.; 5 lbs., 65c.

Fir Tree Oil Soap. For killing green aphids. ½-lb. can, 25c.; by mail, 35c; 2 lbs., 75c.

Hammond's Slug Shot. For destroying slugs, cabbage and turnip flea, currant worms, etc. Per lb., postpaid, 35c.; 5-lb. pkg., 50c.

Hammond's Grape Dust. To prevent mildew on roses, grapes and gooseberries.

Per lb., 15c.; postpaid, 35c.; 5-lb. pkg., 50c.

We will gladly mail you our **SPRAY CALENDAR.** It's small, but valuable.

Hellebore. ¼-lb., 15c.; ½-lb., 25c.; 1-lb., 35c.

Kerosene Emulsion. An excellent spray for woolly aphid and clover mite.

Qt., 60c.; 2 qts., \$1.00; 4 qts., \$1.50.

Nico-Fume. The best tobacco paper insecticide for fumigating greenhouses.

Per can of 24 sheets, 75c.

Nicotinic. The best fumigator and spray for greenhouse work. Kills aphid, red spider, mealy bug, thrip, etc.

Pint can, \$2.50; qt., \$4.50; gal., \$15.00.

Lemon Oil Insecticide. Soluble in water. A cheap, safe and effectual insecticide for use on plants. Will not injure nor discolor leaves, no odor; a capital wash for dogs, killing all insects and giving the coat a beautiful gloss. Directions on package. Price ½-pt., 25c.; pint, 40c.; quart, 75c.; ½-gal., \$1.25; gal., \$2.00.

Rose Leaf.—A tobacco spray, for destroying all insects and scale on plants.

Pint, 30c.; quart, 50c.

Quassia Chips. Generally used with Whale Oil Soap for lice, etc.

1 lb., 10c.; postpaid, 30c.

Note.—To make standard hop spray, use 1 lb. each Quassia Chips and Whale Oil Soap with 8 gallons water.

Whale Oil Soap. For aphid, plant lice, etc. 1 lb., 10c.; postpaid, 30c.; 100 lbs., \$5.00.

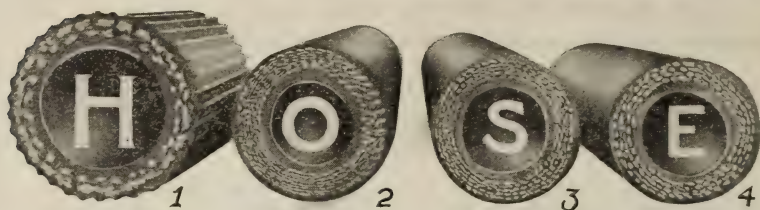
Sulphur, Powder.

Lb., 5c.; 100 lbs., market price.

Tobacco Stems. Lb., 5c.; per 100 lbs., \$2.50.

Tobacco Dust. Lb., 10c.; postpaid, 30c.; 10 lbs., 75c.; 100 lbs., \$5.50.

FLORISTS' AND NURSERYMEN'S SUPPLIES



No. 1—ELECTRIC
No. 2—MONARCH
No. 3—POMONA
No. 4—HOOD

For Spray Pumps and Gardens.

This season we are offering our customers a very complete and reliable line of spray and garden hose. We buy in very large quantities, direct from the manufacturers, which places us in a position to quote the following very low prices. Most of the brands we offer are manufactured especially for us, and can be obtained nowhere else.

NOTE.—All our hose is furnished in 50-foot lengths, and comes coupled ready for use. We will cut any of these hose in 25-foot lengths at an additional cost of 25c. for couplings. We will cut ½-inch Pomona and Monarch Spray Hose in any length desired, at an extra cost of 25c. for couplings in less than 50-foot lengths.

MONARCH SPRAY HOSE. The Monarch, a new spray hose, is even a better grade than our well-known "Pomona." It is absolutely the best hose we can buy; the rubber is of exceptionally good quality and is very heavy; also the cotton ducking is thick and strong, and we do not hesitate to recommend it to orchardmen, who must have a very high-grade and strong spray hose. 7 ply.

Monarch Special Spray. ½-inch only. Per ft., 18c.

POMONA SPRAY HOSE. Our well-known Pomona is the best hose which can be bought at a moderate price. It has stood the test of time and hard usage, and has always proved good. 5 ply.

Price, ½-in., per ft., 13½c.; ¾-in., per ft., 15c.

AJAX SPRAY HOSE. ¾-inch only. Price, per ft., 10c.

ELECTRIC GARDEN HOSE. A new process, corrugated rubber hose, that will not kink or break. Especially recommended for florists and gardeners who use hose continuously.

Price, per ft., ½-in., 17c.; ¾-in., 20c.

SUCTION HOSE. This is an excellent grade of suction hose, and is what we furnish with our regular pump outfit.

Price, per ft., ¾-in., 27½c.; 1-in., 30c.; 1¼-in., 35c.

"HOOD" GARDEN HOSE. This is an excellent grade of garden hose. It is made with four heavy plies of canvas, and with good, thick inside tubing. We have no hesitancy in recommending this for ordinary garden use.

Price, ½-in., per ft., 10c.; ¾-in., 12½c.

ST. HELENS GARDEN HOSE. This is a good grade of garden hose of moderate price, and where a hose of medium price is wanted it will give excellent satisfaction.

Price, ½-in., per ft., 9c.; ¾-in., 11c.

COTTON GARDEN HOSE. There is a constantly growing demand for a light-weight, yet strong, durable hose, which will stand good pressure, but still is not heavy to handle. This demand has been fully met by our new process rubber lined cotton hose. The rubber lining is of the best quality. The hose is made in 50-foot lengths, and is already coupled.

Best Cotton, Double Diamond. Very durable.

Per foot, ½-inch, 10c.; ¾-inch, 12½c.

COMPETITION GARDEN HOSE. This is the cheapest hose we have. It is not guaranteed, but in some cases where a hose is required only for a short time it will give excellent service.

Price, ½-in., per ft., 5½c.; ¾-in., 6¼c.

MASTICA.

For Glazing New or Old Greenhouses.

The use of "Mastica" avoids the necessity of repeatedly reglazing the houses, saving much time and expense. With "Mastica" you can bed in, or use outside with machine. Broken glass can be easily removed and replaced by new without breakage of other glass, which usually occurs with hard putty. One gallon will cover about 290 running feet (one side).

Price, per gallon, \$1.50.

PUTTY BULBS.

Very convenient for applying liquid putty in glazing greenhouses. (See cut.)

Price, \$1.00.

POINTS.

Peerless. Best point made. No raising up when driven—no rights, no lefts, no sliding, no trouble to apply; cheap, indestructible. Once used always used. (See cut.) 1000 in box.

Price, 75c.

MASTICA GLAZING MACHINE.

To fill the machine, remove the plunger and pour "Mastica" into top of cylinder; replace the plunger and with a gentle pressure of the handle the "Mastica" is forced through the opening at the heel, and is smoothed into perfect condition by the foot passing over it.

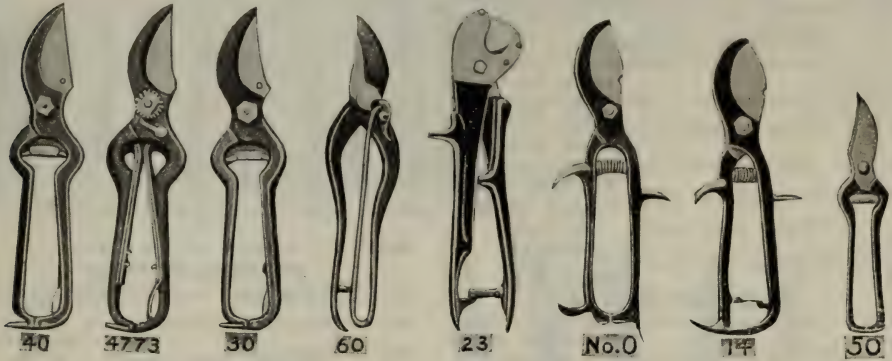
(See cut.)

Price, \$1.35.



STRONG, HEALTHY TREES, PLANTS, ROSES We have them in quantity. Our tree catalog tells all.

PRUNING TOOLS, KNIVES, WEEDERS, ETC.



NOTE. Compare numbers on cut to those in descriptions.

- No. 4773. 9-inch; full polish, with double brass springs; best American make. \$1.50; postpaid, \$1.70
- No. 40. 9-inch; bright finished, polished blade, spiral steel spring; made for hard service. \$1.00; postpaid, \$1.15
- No. 41. Same as No. 40, except with ratchet nut. \$1.25; postpaid, \$1.45
- No. 30. 7-inch; German make; black finish; polished blade; very good. 75c.; postpaid, 90c.
- No. 31. Same as No. 30, only 9-inch ratchet nut; an American make. \$1.00; postpaid, \$1.20
- No. 50. 5½-inch, nickel-plated; small, but of best material; fine for ladies. \$1.00; postpaid, \$1.15.

- No. 51. Same as No. 50, except that it is 6½ inches long. \$1.25; postpaid, \$1.40
- No. 23. Levin Pruner, 7-in.; cuts clean; cuts ½-inch. Postpaid, 60c.
- No. 14. Good low-priced tool. 50c.; postpaid, 65c.
- No. 0½. Similar to 0; flat spring. 45c.; postpaid, 60c.
- No. 60. Perfection, 8½-inch; imported French shear; powerful, strong; cuts easily. \$3.00; postpaid, \$3.15.
- No. 61. 7½-inch; same as above. \$2.75; postpaid, \$2.85.
- No. 62. 6½-inch; same as 60. \$2.50; postpaid, \$2.60.

BRANCH SHEARS

Fig. 126. This has no equal; is forged from high-grade tool steel; finely tempered, solid wrought steel ferrules. Look at lock nut. It cannot work loose and ruin shears; 26-inch handles. Price, \$2.00

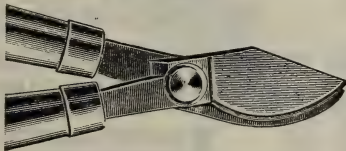
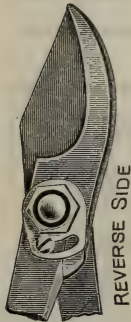
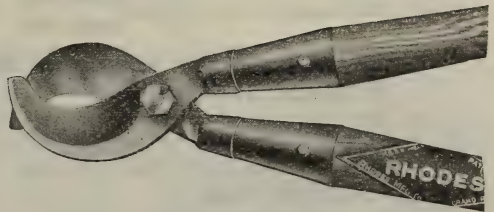


FIG. 126.

THE PRUNING BOOK,
BY BAILEY. A STAND-
ARD AUTHORITY.
PAGES 83-84.

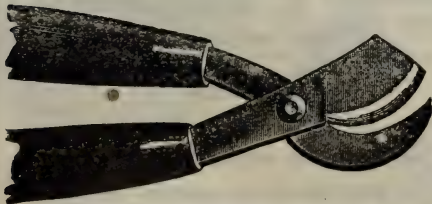


RHODES DOUBLE CUT PRUNER

Cuts From Both Sides. Does not Bruise the Bark.
The overlapping incurved points prevent the double edges from cutting each other. This is the most powerful and cleanest cutting shear made. Built for hard service. Note the heavy ferrules, and rivet through the shank. They can't work loose. Length, 30 inches. Price, \$2.50.

FIG 35.

Standard pattern; used for years.
26-inch handle, \$1.00; 41-inch handle, \$1.25.



BRANCH SHEAR—Fig. 35.

FINE ROSES AND BERRIES

May 11, 1908.

Gentlemen: The Roses and Berries I received from you two months ago all came in good shape, and are all growing fine. Yours truly, MRS. E. C. RAYMOND.

April 12, 1908.

Gentlemen: The Superlative Raspberries you sent me arrived in good condition, and were very fine plants. Many thanks for them. Yours truly, A. S. THOMSON.

KNIVES

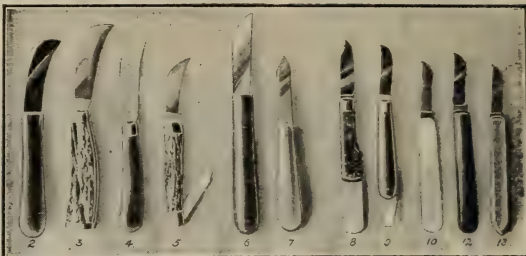
Will send any of the following knives postpaid, at these prices. See numbers on cut.

BUDDING KNIVES.

- No. 8. Ebony handle, stationary ivory bark opener. **Price, \$1.00.**
- No. 8½. Same as above, only size larger. **Price, \$1.25.**
- No. 10. Ivory handle, very light and fine. **Price, \$1.00.**
- No. 10½. Same as above, only size larger. **Price, \$1.25.**
- No. 12. Black handle; very light and fine. **Price, 85c.**
- No. 13. Plain wood handle, stationary blade. **Price, 25c.**
- No. 5. Budding and pruning knife combined. **Price, \$1.00.**

GRAFTING KNIVES.

- No. 6. Plain wood handle, stationary blade. **Price, 35c.**
- No. 7. Plain wood handle, stationary blade; smaller. **Price, 25c.**



Note.—See numbers in descriptions.

PRUNING KNIVES.

- No. 2. Plain wood handle, stationary blade. **Price, 50c.**
- No. 3. Large horn handle; very strong. **Price, \$1.50.**
- No. 4. Polished wood handle. **Price, 85c.**

GRAFTING WAX.

¼-lb., 10c.; ½-lb., 20c.; 1b., 35c.; postage, 18c. per lb. extra.

LONG HANDLE TREE PRUNERS.

Indispensable in Pruning Tall Trees. (See cut.)
 6 feet, 75c.; 8 feet, 90c.; 10 feet, \$1.00; 12 feet, \$1.15.
 Cannot go by mail; purchaser will have to pay freight or express charges.

PRUNING SAWS.

- Crescent, 12-inch blade.....65c.
- Crescent, 14-inch blade.....75c.
- Straight Blade, 16-inch.....60c.
- Straight Blade, 18-inch.....65c.
- Straight Blade, 20-inch.....70c.

FLOWER SHEARS.

Nickel-plated; cuts and holds the flower from falling until opened again. **Postpaid, \$1.00.**

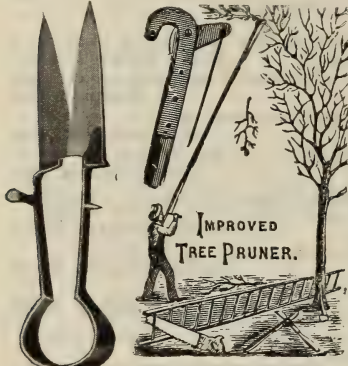
GRAPE SHEARS.

Made like the above. **Postpaid, \$1.25.**

RAFFIA.

For tying plants and buds. **Lb., 25c.; by mail, 50c.**
 For Colored Raffia, see page 84.

FOR FINEST RED CLAY FLOWER POTS SEE PAGE 82
FLORISTS WRITE FOR PRICES



GRASS SHEARS.

Fine for trimming borders and edges; good make; 6-inch blade. (See cut, Fig. 28.) **Each, 60c.**

GRASS HOOKS OR SICKLES.

These are the latest style and shape. **Clark.** First-class; detachable blade. **Price, 45c.**
Village Blacksmith. Hand-forged. **Price. 45c.**

RARE ROSES.
Page 85.

MISCELLANEOUS FLORISTS' AND NURSERYMEN'S SUPPLIES.

PLANT STAKES.

Round cedar, painted green, white tops.
 3 ft., 75c. doz.; 3½ ft., 80c.; 4 ft., 85c.; 5 ft., \$1.35; 6 ft., \$2.00.
 Bamboo. 4 ft., 20c. doz.; 5 ft., 25c.; 6 ft., 30c.

PENCILS.

Indelible, nickel tip, for marking labels. **Each, 15c.**

OREGON MOSS.

We have this gathered, dried and put up in bales of about 100 lbs. each for florists' and nurserymen's use. Write for price by ton or carload.
Per lb., 5c.; 100 lbs., \$3.00.

TIN FOIL.

Florist. Regular stock. **Lb., 20c.; 10 lbs., \$1.50.**

WIRE DESIGNS.

Every description. List on request.

FLORISTS.

We issue a special list of Florist Supplies of every kind. Our stocks are the largest in the West. Let us figure on your orders.

WIRE HANGING BASKETS.

8 in., 20c.; 10 in., 25c.; 12 in., 30c.; 14 in., 50c.

WOODEN LABELS.

TREE LABELS.

Painted iron wire. **Per 100, 15c.; per 1000, \$1.00.**
 Unpainted iron wire. **Per 100, 15c.; per 1000, 85c.**
 Painted copper wire. **Per 100, 20c.; per 1000, \$1.10.**
 Unpainted copper wire. **Per 100, 20c.; per 1000, \$1.00.**

POT LABELS.

4-inch. **Plain, Per 100, 15c.; 1000, 65c.; painted, 1000, 80c.**
 5-inch. **Plain, Per 100, 20c.; 1000, 85c.; painted, 1000, \$1.05.**
 6-inch. **Plain, Per 100, 25c.; 1000, \$1.25; painted, 1000, \$1.40.**
 8-inch. **Plain, Per 100, 30c.; 1000, \$1.50; painted, 1000, \$1.75.**

BULBS.

We import annually large quantities of Flowering Bulbs and Roots for Florists' and Gardeners' use. Catalog and prices on request.

NICOTICIDE—The safest, most efficient spray for aphid, thrip, red spider, etc., on roses and all plants. Indoors or out. (See page 99.)

FIVE OF THE BEST HAND WEEDERS MADE

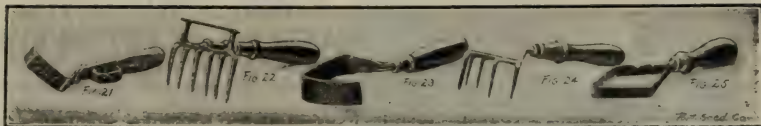


Fig. 21. Lang's,
Fig. 22. Combination,
Fig. 23. Hazeltine's,

Postpaid, 25c.
Postpaid, 30c.
Postpaid, 30c.

Fig. 24. Excelsior.
Fig. 25. Noyes' Weeders about 10 in. long (see cut).

Postpaid, 20c.
Postpaid, 30c.

GARDEN TROWELS

See descriptions of numbers on cuts. Don't class these tools with the cheap stock offered by the department stores. (See cut.)

No. 211. Six inch; blade and shank of one piece of forged steel. The best tool of its kind in the market. **50c.; postpaid, 65c.**

No. 313. Six inch; good steel trowel, with malleable iron shank, firmly riveted. **15c.; postpaid, 25c.**

No. 214. Six inch; steel trowel, stronger and better finished than the above. **25c.; postpaid, 35c.**

No. 212. Six inch; solid steel; a first-class trowel. **35c.; postpaid, 45c.**

No. 217. Six inch; steel transplanting trowel. **20c.; postpaid, 30c.**

No. 217. Eight inch; steel transplanting trowel. **25c.; postpaid, 35c.**

No. 216. Ladies' flower trowel. **10c.; postpaid, 20c.**

No. 217A. Transplanting hoe trowel, used by gardeners in setting out plants. **50c.; postpaid, 60c.**



No. 212. No. 211. No. 214. No. 313. No. 217. Fig. 26.

DANDELION PULLERS

A most convenient tool for digging these troublesome weeds.

Fig. 26. Vaughan's (see cut).

50c.; postpaid, 60c.

RAT TRAPS

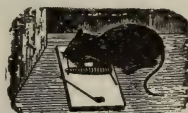


"OUT O' SIGHT" GOPHER TRAP.



BEFORE TAKEN.

OUT O' SIGHT TRAPS

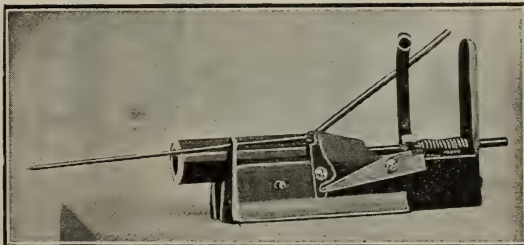


AFTER TAKEN.

None Better.



"OUT O' SIGHT" MOLE TRAP.



PORTLAND SEED CO'S GOPHER GUN

Far superior to the old styles; breech loader; place in the runway; perfectly safe. Made for 16-gauge shells; discharged by a push and can be set for hawks, coyotes and coons.

Price, \$1.75.

REDDICK MOLE TRAP

No Mole Can Pass Under It and Live.

These traps are strong and durable and worth the price to anyone with moles. Full directions with each trap. (See cut.)

Price, 75c.; cannot fail.

OUT O' SIGHT TRAPS

Out O' Sight Rat Trap. Postpaid, 25c.
Out O' Sight Mouse Trap. Postpaid, 10c.
Out O' Sight Gopher Trap. Postpaid, 25c.
Out O' Sight Mole Trap (cannot mail), \$1.00.

FARM TOOLS, ETC.

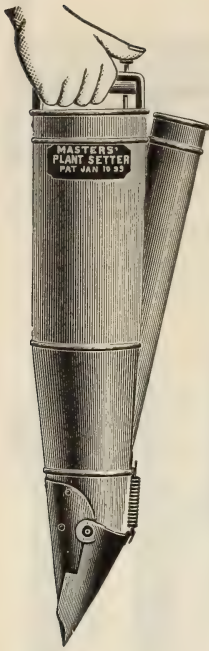
MASTER'S PLANT SETTER

For planting Cabbage, Tobacco, Celery and small plants of any kind. With this handy little tool you can set, water, and fertilize ten thousand plants per day.

You carry the planter in your right hand and drop the plants into it with your left. Each plant is securely set and the work is performed as fast as you walk. The first thing you do after the planter jaws are in the ground is to touch off the water, then drop the plant into the plant tube, give the planter a half-turn to the right, at the same time pressing down with the thumb lever. This will throw plenty of earth into the bottom of the hole on top of the roots and water, which will settle about the roots of the plant as the water soaks away, and at the same time fasten the little roots air-tight at the bottom of the hole, which is the secret of all true plant setting. The upper part of the hole will fill itself by the action of the weather, and the plant will start growing much quicker than if set by hand. THE GROUND SHOULD BE DRY AND WELL HARROWED.

Absolutely sure in its work; no resetting; every plant watered and your field will all grow and come on evenly. By a light pressure of the thumb enough water is released for each plant; two barrels required for an acre in dry weather. You can mix fertilizer with the water, or use liquid manure. This planter is built entirely of sheet metal and steel. The manufacturers of the planter set from 50 to 50 acres of cabbage plants each year. It is simple, durable, practical and sure in its work.

Price, each, \$4.00.



700 IN ONE HOUR

Astoria, Ore., July 27, 1909.

Gentlemen: I desire to state how pleased I am with the Masters Plant Setter. While I used this on land which had only been turned over this spring and harrowed once, and therefore could not give it a fair test, my man tells me he timed himself on one patch, and put out 700 plants in an hour. Yours truly,

FRANK SPITTLE.

Valuable Books on Farming and Gardening Will be Found in Our Book list on Pages 83-84.

POTATO PLANTERS

PEERLESS. (Fig. 16.)

This is the lightest and best tubular planter made. With this planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. (See cut.)

Price, \$1.50.

PINGREE OR ACME. (Fig. 14.)

Practically the same as the Peerless without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. (See cut.)

Price, \$1.25.

CORN PLANTERS

GORDON AUTOMATIC. (Fig. 20.)

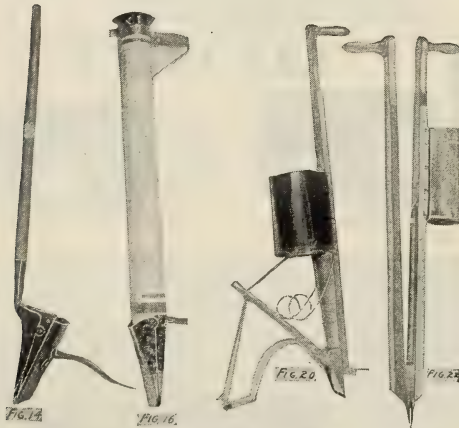
Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn (the right number of kernels) exactly where you want it, and at a proper depth. It is light, handy, automatic, easily worked, requiring only one hand (either one), and a most satisfactory tool in every way. See cut.

Price, \$1.50.

ACME. (Fig. 22.)

A two-hand planter; light, strong and durable. Especially adapted for planting in heavy, cloddy or stony soils. The seed dropper of the Acme is a straight slide, which vibrates horizontally and will drop seeds ranging from pop corn to large kidney beans. Made with spring, brass cut-off and steel blades. (See cut.)

Price, \$1.00.



"GOLDEN WEST."

Bandon, Ore., Feb. 13, 1909.

Gentlemen: Your Golden West Sweet Corn is out of sight of other kinds. We sowed lots of seed. Did not think it would grow so close to the beach—two miles of the breakers—but it did fine. Yours truly,

W. F. K

FREE PREMIUMS

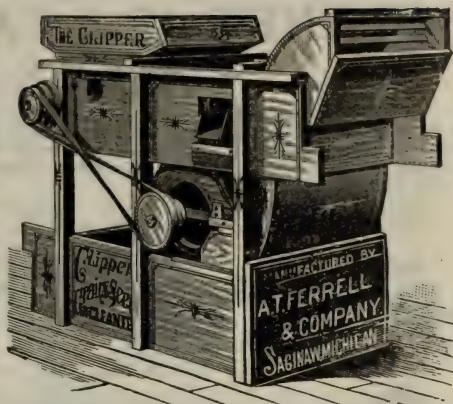
We do not pay freight charges at catalog prices, but the liberal premiums we offer (see inside back cover) will generally cover same, sometimes more.

THE CLIPPER GRAIN, SEED AND BEAN CLEANER

This is without doubt the best seed and grain cleaner on the market today. When it comes to doing real nice, clean work, it is far ahead of all the others. The "Clipper" is especially adapted for making effectual separation of wild oats, cheat, cockle and all foreign seed from wheat and oats, plantain from clover, etc., etc., as well as cleaning and grading the perfect seed. Other manufacturers depend entirely upon screens for this work, and with unsatisfactory results. The "Clipper," however, screens all straw and foreign matter from the grain before it enters the air shaft, and the "Vertical Blast" does the rest. The screens are so arranged as to be in plain view, and of easy access to the operator while machine is in operation. Seed dealers everywhere use the "Clipper," because it is the best. We buy these cleaners in carload lots and have both hand and power mills. **Descriptive pamphlet and catalog sent on request.**

Price: No. 1, \$28.00; No. 2, \$37.50.

We have four Clipper Cleaners in use in our warehouse, because they are the best cleaners made and the only ones that will clean and grade all kinds of grass, vegetable or farm seeds.



BETTER AND CHEAPER

Seghers, Or., March 3, 1909.

Dear Sirs: Your Fanning Mill at hand and tried, and found much better and cheaper than any other I have seen or used.

Respectfully,
AUG. ROTH.

THE BEST SEED CLEANERS

Amity, Oregon.

Gentlemen: The Clipper is the only perfect seed and grain cleaner used in this vicinity. It is simple, durable and easy running. I can recommend it to all who want a strictly first-class cleaner. Yours,

W. W. NICKEL.

Thorp, Wash.

Gentlemen: I have used four different mills. After a thorough trial none proved satisfactory, and were sold, and I bought The Clipper, which does my work perfectly. You cannot praise it too highly. Yours truly,
A. T. SHADEL, Seed Grower.

We have supplied "Clipper Cleaners" to the mills, dealers and prominent growers of the Northwest. If you grow grain or seed and do not own a "Clipper," you are losing many times its cost every year. Let us send you our "Clipper" catalog. All sizes and prices.

BROADCAST SEED SOWERS

Every Farmer Should Have One.

LITTLE GIANT

The best cheap seeder on the market, made in three sizes.

No. 3 Improved	\$2.25
No. 3	2.09
No. 4	1.65

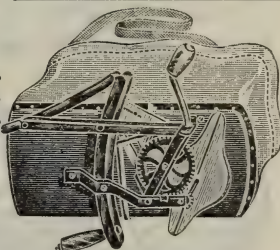


CAHOON.

IMPROVED CAHOON

The standard broadcast seed sower of the world, made of steel, iron and brass and with ordinary care will last a lifetime. This machine is the most popular. It has a force feed and does excellent work. Instructions with each machine.

Price, \$3.50.



LITTLE GIANT.

IRON KING SEED DRILL

The Best Onion Drill.

The Iron King Seed Drill is acknowledged by the majority of the large onion growers of Oregon and Washington to be the most practical of drills for sowing onion seed. It is a well made, durable and easy running machine, accurate and reliable, and with careful use will last a life time. It will save the price of the machine in sowing a few acres. If you are growing onions you cannot afford to be without one. The Iron King can also be set to sow anything from turnips to peas.

Price, \$9.25.

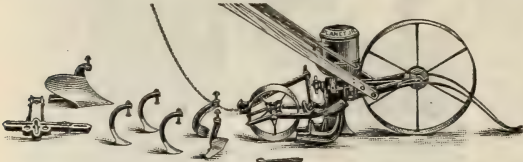


IRON KING

"Blackbeauty" Page 46

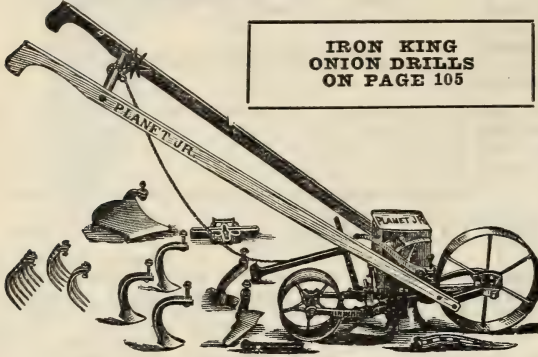
"PLANET JR." FARM AND GARDEN TOOLS FOR 1910

Space will not permit our showing and describing all of the "Planet Jr." Tools, but we will send a fully illustrated catalogue free for the asking. Can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to us you can rely on getting bottom prices.

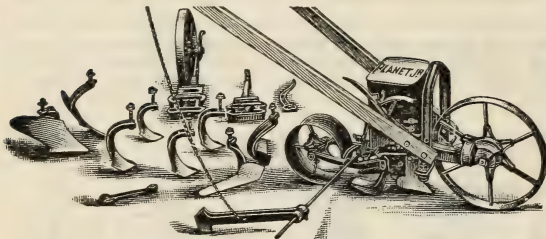


NEW NO. 6.

IRON KING
ONION DRILLS
ON PAGE 105

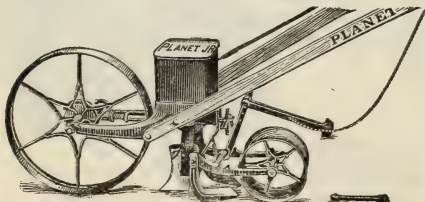


NO. 4.



NO. 25.

No. 25—Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Price, \$14.50.



No. 3—HILL AND DRILL SEEDER.

It practically combines in one tool the No. 4 Drill and No. 12 Double Wheel Hoe. A combination unequalled. Any one can see at a glance the great advantage of this machine. See descriptions of No. 4 and No. 12.

No. 3—Hill and Drill Seeder. Price, \$11.50.

Hopper holds three quarts; driving wheel has an accurate index. The flow of seed is started or stopped by a single movement of the forefinger.

No. 1—Combined Drill. Price, \$10.50.

This has long been the most popular combined tool made. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached.

A pair of five-tooth rakes supplied when specially ordered. Price, extra, \$1.00.

No. 2—Drill Seeder. Price, \$8.25.

Very much like No. 1, except that it has no cultivating tools and holds more seed.

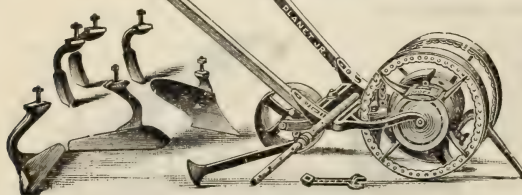
No. 6—Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow, Price, \$14.50; Hill and Drill Seeder only, \$12.00.

This latest Planet Jr. Seeder was under construction for two years, and has been held back until every detail has been made as nearly perfect as possible. The steel carrying wheel is 10½ inches high, with forged steel spokes, making an easy running tool. Handles adjustable. The feed and cut-off are the most accurate ever constructed. The opening plow is of a new shape, leaving the seed in a narrower row than any plow heretofore made. The roller is large and wide, leaving the seed in excellent condition for germination. This drill sows in drills, drops in hills, 4, 6, 8, 12 or 24 inches apart, covers rolls down and marks the next row, all in one passage. As a wheel hoe the frame is similar to the No. 17 Single Wheel Hoe and equipped with the same tools. The combination is the best and most useful ever offered.

No. 4—Combined Hill and Drill Seeder, and Wheel Hoe Cultivator and Plow. Price, \$12.00; Drill only, \$10.00.

This admirable tool combines in a single, convenient implement a capital hill dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator and a plow. It holds two quarts, and will sow in a continuous row, or drop in hills at five different distances. It is thrown out of gear by simply raising the handle. The index is accurate, simple and easily set. The drill is detached and the tool frames substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. It is useful almost every day of the season at every stage of garden work.

A set of three rakes supplied when specially ordered. Price, extra, \$1.00.



No. 1—COMBINED DRILL.

PLANET JR. MACHINES—Continued

DOUBLE WHEEL HOES

The Planet Jr. Double Wheel Hoes are the greatest tools in the world for gardeners. They do more work, and do it better and easier than can possibly be done in any other way. They represent the very highest perfection in every detail.

No. 14—Double Wheel Disc Hoe, Cultivator and Plow, complete. See cut. Price, \$9.00.

This new tool, introduced in 1909, is exceptionally fine for peat soil, and equally good for other soils. Discs are adjustable as to depth and throwing dirt to or from plants. Cultivator teeth are constructed along new lines. (See cut.)

These tools are in great demand and we could not secure enough last season. Better order early.

No. 13½ — Double Wheel Disc Hoe.

Price, \$6.85.

Same as No. 14 with discs only.

No. 11—Double Wheel Hoe. Price,

\$10.00.

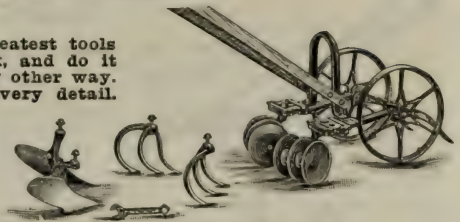
Price includes attachments shown in cut.

No. 12—Double Wheel Hoe. Price, \$7.85.

Like No. 11 except it has fewer tools; 1 set hoes, 1 set cultivators, 1 set plows go with this tool.

No. 13—Double Wheel Hoe. Price, \$5.50.

This is the No. 11 with 1 pair 6-inch hoes only.



No. 14—DOUBLE WHEEL DISC.



No. 11—DOUBLE WHEEL HOE.

A Complete Planet Jr. Catalogue Free

—NO. 5—“CAN'T BE BEAT.”—

Manor, Wash., April 6, 1909.

Gentlemen: Received the Peatland Plow a few days ago. It is all O. K.

The No. 5 Seed Drill I got from you is a good machine. I don't think it can be beat.

I will be over in a few days to get a Cultivator. Yours truly,

S. B.

SINGLE WHEEL HOES

Single Wheel Hoes are lighter than Double Wheel Hoes, but do almost the same variety of work, though in a different way, being used mostly between the rows instead of straddling them. Nos. 16, 17, 17½ and 18 are all the same model; the only difference is in the number of tools sold with each.

No. 38—Single Wheel Disc Hoe, Cultivator and Plow, complete.

(See cut.) Price, \$7.00.

No. 18½—Single Wheel Disc Hoe, like No. 38, except it does not have plow and cultivators.

Price, \$4.75.

No. 18—Single Wheel Hoe. Price, \$4.25.

Same as No. 16, except that it has but 1 pair 6-inch hoes.

No. 17½.—Single wheel hoe. Price, \$5.25.

Same as No. 16 except that it has but 1 pair 6-inch hoes and 3 cultivator teeth.

No. 17—Single Wheel Hoe. Price, \$5.75.

Same as No. 16, except that it does not have the pair of rakes.

No. 16—Single Wheel Hoe. Price, \$6.50.

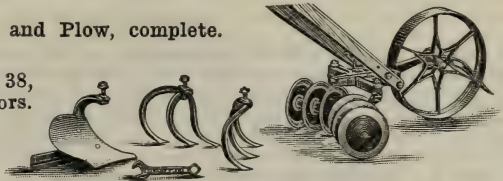
See cut for attachments.

Fig. 70—Onion Set Harvester. Price, \$1.20.

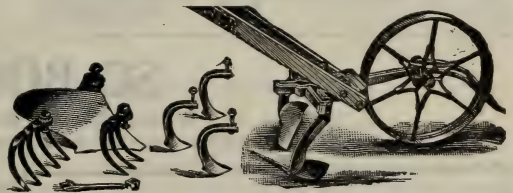
A useful attachment for our combined Drills and all our Wheel Hoes. Eight-inch size for onions and onion sets. It leaves the crop in the best condition for easy handling.

Fig. 60—New Hoe with Shield. Pair, \$2.00.

This attachment is very valuable, as you can work close to the young plants. The shield protects them from clods and dirt that would naturally fall back on them. For double wheel hoes, both right and left.



No. 38—SINGLE WHEEL DISC.



No. 16—SINGLE WHEEL HOE.



Fig. 60.



Fig. 70.

PLANET JR. MACHINES—Continued

HORSE TOOLS

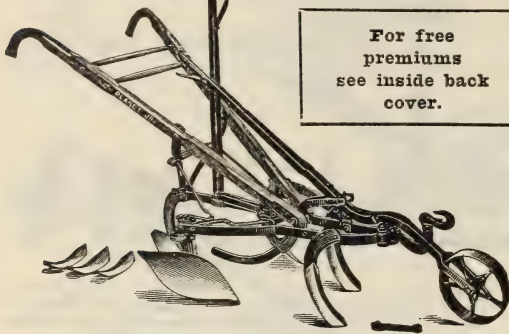


NEW—1910 No. 81 Horse Hoe, Cultivator and Furrower. Price, \$11.50.

NO. 81.

This will become our most popular Horse Hoe, as its equipment is ideal for cultivating or hilling any width row up to four feet. Has six 3-inch cultivator teeth, a pair of 6-inch side plows, and a 12-inch furrowing tooth; is compact, strong, and, being well balanced, runs steadily. We recommend this Cultivator for general purposes, and especially for hilling, where a one-horse cultivator is needed.

For free
premiums
see inside back
cover.



PLANET JR. NO. 8 HORSE HOE.

No. 8—Horse Hoe and Cultivator. Price, with attachments, as in cut, \$10.50.

Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand an incredible strain, yet it is light and easy to handle.

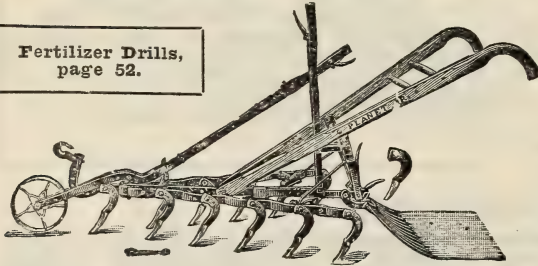
Planet Jr. No. 9—Horse Hoe and Cultivator. Price, \$8.75.

Similar to No. 8, but without lever attachment on the wheel and depth regulator.

Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, complete, \$10.50; without Pulverizer, \$8.60; without Wheel or Pulverizer, \$7.30.

This tool has rapidly grown in favor with farmers, market gardeners and strawberry growers. It has a high frame and the chisel-shaped teeth cut an inch wide each. It may be set with teeth trailing. The foot lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth while in motion.

Fertilizer Drills,
page 52.



TWELVE-TOOTH HARROW, COMPLETE.

ORCHARD CULTIVATORS

Planet, Jr., Two-Horse Cultivators are different from any others made, and for orchard and general requirements are superior in many ways. They are strong, light, easily handled and do exactly what they are represented to do, and the excellency of material and workmanship guarantees that you will have no failures or disappointments with these splendid tools. The spring-trip standards are especially valuable to orchardists where the ground is n w or very rough. We shall be glad to mail you a special "Planet" Catalog, giving detail description and illustrations of all Planet implements.

No. 1. Orchard and Universal Cultivator. Price, \$46.00.

No. 71. Two-row Pivot Wheel Cultivator, complete. Price, \$64.50.

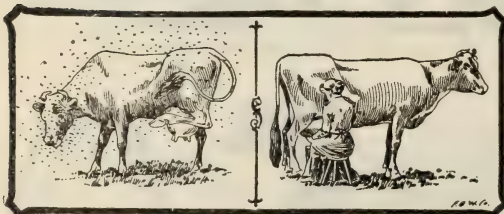
No. 45. Riding Harrow and Cultivator, with extensions. Price, \$53.00.

No. 70. Pivot Wheel Cultivator, complete. Price, \$50.00.

SO-BOS-SO

Write today for 20-page booklet.

We have tried them all, and offer So-Bos-So as the best Fly Killer.



BEFORE.

AFTER.

So-Bos-So. Kilfly. Use Child's "So-Bos-So Kilfly" on your stock. It means money in your pocket, for cows give one-third more milk and horses do better, and on less feed, when protected from flies. It requires only a few seconds to apply it; it costs less than 1/2c. a day per head. You cannot afford to be without it. Apply with cloth, sponge, or hand-sprayers listed on page 97.

Put up in 1-gallon sealed cans only.

Price, \$1.25.

ORDER A CAN WITH YOUR OTHER GOODS. AND BE READY FOR THE FLIES WHEN THEY COME.

BEE SUPPLIES

We are Western Agents for the A. I. Root Co., the largest manufacturers of Bee Supplies in the world, and whose products are the recognized standard of excellence among beekeepers. We carry immense stocks, and can equip you with everything necessary for the profitable and successful handling of Bees.

If there is anything you need or any special information you require, write us. We have experts in our employ whose knowledge and experience are at your service. Our complete bee supply catalogue will be mailed you on request.

DOVETAILED HIVES AND PICTURES.

These are now recognized as superior to all other styles in convenience, economy and durability. We offer four grades, Root's, P. S. Co.'s Pine, P. S. Co.'s Cedar, and P. S. Co.'s Western Pine.

PORTLAND SEED CO.'S DOVETAILED PINE HIVES

A first-class Dovetailed Hive made of No. 1 Eastern pine: construction same as Root Hive.

DESCRIPTION AND PRICES.

Five Hives at Same Rate as Ten. (Order by No.)

No. 1 Dovetailed Hive (complete with 1 super), consists of 1 bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, 2 tightening springs for super, 6 section holders, 6 slotted separators, 24 sections, foundation starters for frames and sections, and nails.

Nailed, \$2.35 each; per 10 K. D. flat, \$20.50.

No. 2 Dovetailed Hive is the same as No. 1, less sections and foundation starters.

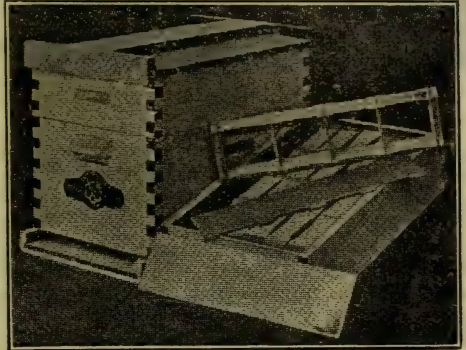
Nailed, \$2.10 each; per 10 K. D. flat, \$18.00.

No. 3 Dovetailed Hive is the same as No. 1, except that it has two supers instead of one.

Nailed, \$3.05 each; per 10 K. D. flat, \$26.75.

No. 10 Dovetailed Hive (complete two-story for extracting), consists of 1 bottom board, 2 bodies, 1 cover, 16 Hoffman brood frames, 2 division boards, and nails.

Nailed, \$2.50 each; per 10 K. D. flat, \$21.50.



P. S. Co.'s No. 1 Hive for 4 1-4 Square Sections.

No. 4 Dovetailed Hive is the same as No. 3, less sections and foundation starters.

Nailed, \$2.55 each; per 10 K. D. flat, \$22.00

We advise the use of the above combinations, but if you want other sections or separators, make note in your order.

P. S. CO.'S DOVETAILED WESTERN PINE HIVES

This hive is standard size and well and carefully made of first-class lumber. The fixtures are just the same as in our regular pine hives, and the sections supplied are of the best grade of white Eastern basswood. For general description of the different numbers, see corresponding numbers and descriptions above.

PRICES.

	Each.	K. D.—Packed.		Weight of 10.
	Nailed.	5	10	
No. 1-8	\$2.00	\$9.00	\$17.50	230
No. 1-8, Less Super	1.30	6.00	11.75	205
No. 2-8	1.80	8.00	15.50	260
No. 2-8, Less Super	1.25	5.75	11.25	195

Description for numbers are same as above.

DOVETAILED WESTERN CEDAR HIVES

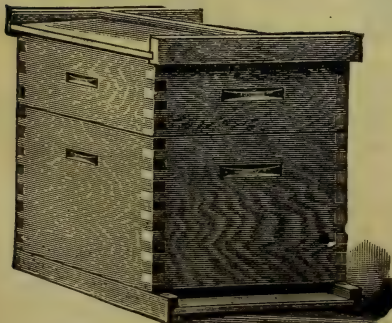
Portland Seed Co.'s

These cedar hives are made especially for our Western trade. In construction, they are the same as our pine hives, the only difference being that they are made of superior quality of cedar, the best and most lasting of wood for our Western climate. The sections and separators used in the supers are the regular No. 1 Eastern stock. Price and quality considered, these hives are the best bargains we have to offer.

PRICES.

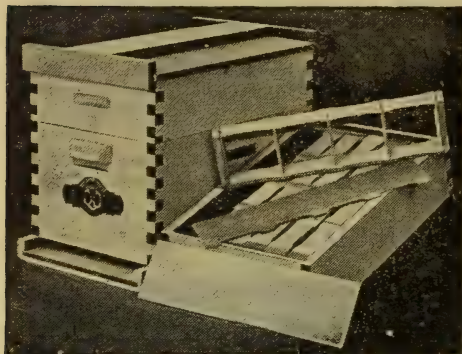
	Each.	K. D.—Packed		Weight of 10.
	Nailed.	5	10	
No. 1-8	\$2.10	\$9.50	\$18.50	275
No. 2-8	1.90	8.50	16.50	250
No. 10-8	2.45	11.00	21.00	300

For description of numbers see those given for our pine hives.



P. S. Co.'s Dovetailed Cedar.

A I. ROOT'S DOVETAILED EASTERN PINE HIVES



DOVETAILED HIVE, AE64S-8.

If you desire a Danzebaker bottom board, Excelsior cover, 8-frame, dovetailed hive with frames, foundation and super with section holders, 4 1-4 plain sections, fences and foundation, the number would stand thus: **AE64P-8**.

If you wish two supers in place of one, you would add another figure 4, and the whole would read for 8-frame hive, **AE644P-8**; or, if you wanted this same combination without foundation or sections, the designation would be: **AE522P-8**.

NOTE.—We can furnish the Danzebaker Hive, especially made for the production of Comb Honey. Full information on request.

ROOT'S HIVE COMBINATIONS AND HOW TO UNDERSTAND THEM.

To accommodate various localities and bee-keepers of different preferences, we have a large number of different combinations, and each combination is indicated by a series of letters and figures. A glance at the following table, showing the meaning of each letter or figure in alphabetical order, will make all plain:

A Danzebaker bottom.

E Excelsior cover.

G The Gable cover.

I Super for Ideal plain sections, 3 $\frac{3}{8}$ x 5.

M Super, 4x5 plain sections, for Danzebaker hive.

P Super equipped for plain 4 $\frac{1}{4}$ sections.

S Super for 4 $\frac{1}{4}$ bee way sections.

2 Super with section holders, separators or fences, but no sections or foundation.

4 Super with section holders, separators or fences, sections and foundation starters.

5 Hive body or brood chamber, with frames and division board, but no starters.

6 Hive body or brood chamber, with frames, division board and foundation starters.

8 Indicates hive with 8 brood frames.

10 Indicates hive with 10 brood frames.

When the figures are doubled, it indicates that two of the articles are called for. For instance, **2-2P** means two supers with plain section holders and fences.

Price List of Root's Dovetailed Pine Hives—Different Combinations.

	Each, Nailed.	K. D. in Flat.		Weight of 10.
		5	10	
HIVES.				
No. 1 (A-E or A-G, 6-4, S or P) 8 frame body and 1 super, all complete with starters.	\$2.60	\$11.50	\$22.50	280
No. 1 (A-E or A-G, 6-4, S or P) 10 frame body and 1 super, all complete with starters.	2.80	12.50	24.50	320
No. 2 (A-E or A-G, 5-2, S or P) 8 frame body and 1 super, all complete less sections and starters.	2.30	10.00	19.50	260
N. 2 (A-E or A-G, 5-2, S or P) 10 frame body and 1 super, all complete less sections and starters.	2.45	10.75	21.00	300
No. 3 (A-E or A-G, 6-4-4, S or P) 8 frame body and 2 supers, all complete.	3.25	14.75	28.85	350
No. 4 (A-E or A-G, 5-2-2, S or P) 8 frame body and 2 supers, all complete, less sections and starters.	2.85	12.75	25.00	320
A-E or A-G, 6, 8 frame body only, with frames, division board and starters	1.80	7.85	15.25	195
A-E or A-G, 5, 8 frame body only, with frames, division board and no starters.	1.75	7.60	14.75	190
No. 10 (A-E or A-G, 5-5) 8 frame body, two story, for extracting.	2.60	11.50	22.50	320
HIVE BOTTOM.				
A-Danzebaker bottom-S.	.35	1.60	3.00	40
HIVE COVERS.				
E-Excelsior or G-gable cover-S.	.45	2.00	3.75	40
HIVE BODIES (Brood Chamber).				
Empty body for 8 frames, 9 $\frac{1}{2}$ inches deep with tin rabbets.	.70	3.15	6.10	80
5-body-8, with frames and division board.	1.05	4.65	9.00	130
6-body-8, with frames, division board and starters.	1.10	5.00	9.65	135
SUPERS.				
No. 1 (4 P, S or I) 8, all complete with starters.	.90	4.10	7.85	75
No. 1 (4 P, S or I) 10, all complete, with starters.	1.00	4.50	8.40	100
No. 2 (2 P, S or I) 8, all complete, less starters.	.75	3.30	6.30	65
No. 2 (2 P, S or I) 10, all complete, less starters.	.80	3.50	6.80	80
No. 0 Plain supers, with flat tins, empty.	.40	1.80	3.50	40
DANZEBAKER HIVES.				
Danz. A E D, 6-4 M-10.	2.90	13.50	26.00	330
Danz. A E D, 5-2 M-10.	2.65	12.00	23.50	300
Danz. A E D, 5-10.	1.85	8.25	16.00	200
SUPERS.				
Danz. 4 M-10 super.	1.30	5.65	11.00	120
Danz. 2 M-10 super.	1.10	4.90	9.50	100

Note.—D, Danzebaker body. M, Danzebaker super.

HIVE FIXTURES AND MISCELLANEOUS BEE SUPPLIES

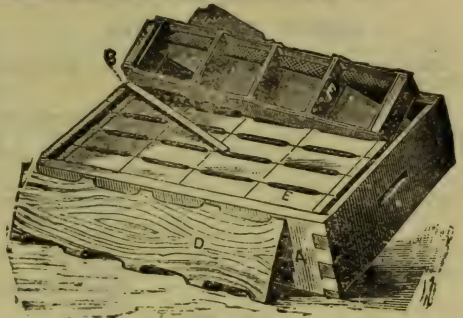
PORTLAND SEED CO.'S DOVETAILED SUPERS.

Unless otherwise ordered, we always send S supers for the regular stock $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ sections and wood separators. (See cut.)

PRICE OF P. S. CO.'S SUPERS.

	Nailed P'ck'd in flat.		Wt. of	
	1	5	10	10
	or K. D.			
No. 1 Pine	\$.90	\$3.85	\$7.50	75
No. 1 Western Pine	.85	3.60	7.00	75
No. 1 Cedar	.90	3.85	7.50	70
No. 2 Pine	.70	2.95	5.75	65
No. 2 Western Pine	.65	2.75	5.25	65
No. 2 Cedar	.70	3.00	5.75	60
No. 8-8 Extract'g Super	.75	3.35	6.50	30
No. 0 Empty, Pine or cedar	.35	1.70	3.25	40

For description of super number, see corresponding number describing hives.

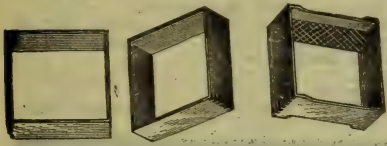


SECTION HONEY BOXES.

Our No. 1 Sections are made of the choicest white basswood lumber, and are all perfect in finish and free from defects.

- No. 1 Root's Best White. Per 100, 70c.; 500, \$3.10; 1,000, \$6.00.
- Portland Seed Co.'s No. 1. Per 100, 70c.; per 500, \$3.00; per 1000, \$5.75.
- No. 2 Root's Second Grade. Per 100, 65c.; 500, \$2.85; 1,000, \$5.50.
- Portland Seed Co.'s No. 2. Per 1,000, 5.25.

If ordered by mail, allow 1c. each for postage.



One-Piece Sections.

Order any of the following sizes wanted. We have $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ and always sent unless otherwise ordered; $4\frac{1}{4} \times 4\frac{1}{4} \times 7$ to the foot; $4\frac{1}{4} \times 4\frac{1}{4} \times 15-16$; $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$. The $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$, $3\frac{3}{4} \times 5 \times 1\frac{1}{2}$, and $4 \times 5 \times 1\frac{1}{2}$ Danzebaker having no bee way are 25c. per M less.

Don't forget that we have complete Bee Supply Catalogue. Free.

SECTION HOLDERS.

- Root's, $1\frac{1}{2} \times 18\frac{1}{2}$ in., slotted. Each, 3c.; per 100, \$2.60.
- Western, $1\frac{1}{2} \times 18\frac{1}{2}$ in., slotted. Each, 3c.; per 100, \$2.15.
- Root's, $1\frac{1}{2} \times 17\frac{1}{2}$ in., plain. Each, 3c.; per 100, \$2.00.
- Danzebaker, reversible. Each, 4c.; per 100, \$3.00.
- Bottoms only— $1\frac{1}{2}$ inches wide, slotted. Each, 2c.; per 100, \$1.30.

SEPARATORS.

- Slotted wood, $4\frac{1}{2} \times 18$, Eastern. Per 10, 15c.; per 100, \$1.00.
- Slotted wood, P. S. Co.'s. Per 10, 10c.; per 100, 70c.
- Plain separators. Per 10, 10c.; per 100, 75c.
- Fence, P or I. Per 10, 25c.; per 100, \$2.10.
- Fence, Danzebaker M. Per 10, 25c.; per 100, \$2.20.

NEW METAL SPACED HOFFMAN FRAME



Recommended where there is much propolis. Spacing accurate and frames handle easily. Price, per 10, 50c.; per 100, \$3.90.

IMPROVED HOFFMAN FRAMES.

- Improved, F. F. Root's. Per 10, 40c.; 100, \$3.50.
- Western. Per 10, 30c.; 100, 2.85.
- Half Hoffman, Root's. Per 10, 30c.; 100, 2.60.
- Danz, Reversible. Per 10, 40c.; 100, 3.25.

COMB FOUNDATION.

Packed in 1, 2, 3 and 5-lb. boxes.

GRADE	Size of Sheets	No. In Lots of		
		per lb.	1lb.	10lbs.
Light Standard Brood	$7\frac{3}{4} \times 16\frac{3}{4}$	7	\$65	\$61
Extra Light Brood	$7\frac{3}{4} \times 16\frac{3}{4}$	9	70	65
Light Section	$3\frac{3}{4} \times 16\frac{3}{4}$	28	70	68
Extra Light Section	$3\frac{3}{4} \times 15\frac{3}{4}$	30	75	72

HONEY SHIPPING CASES.

- Non-Drip. 12-lb. Shipping Cases, Root's. Nailed, each, 20c.; flat, 10, \$1.50.
- 24-lb. Shipping Cases, Root's. Nailed, each, 30c.; flat, 10, \$2.50.
- 24-lb. for $3\frac{3}{4} \times 5$ sections, Root's. Nailed, each, 30c.; flat, 10, \$2.35.
- 32-lb. for $1\frac{1}{2}$ -inch sections. Nailed, each, 30c.; flat, 10, \$2.50.
- 24-lb. for Danzebaker sections. Nailed, each, 30c.; flat, 10, \$2.35.

HIVE PARTS.

- Division boards. Each, 10c.; 10 for 90c.
- Follower and wedge. Each, 5c.; 10 for 35c.
- Tightening spring. Each, 1c.; 10 for 8c.

PORTER BEE ESCAPE.

- Great labor-saver. Price, 20c., postpaid. Mounted, each, 40c. (cannot mail).

PORTER HONEY HOUSE ESCAPE.

- No extracting room is complete without one or more of them. Each, 25c., postpaid.

ALLEY'S DRONE AND QUEEN TRAP.

- A non-swarming device. Each, 50c.; by mail, 65c.
- Improved wire front. Each, 55c.; by mail, 70c.

FEEDERS.

- Gray's. This is designed to be placed tight upon against the entrance. Price, 20c.; by mail, 35c.
- Alexander. Latest out. Used under rear end brood chamber. Price, 30c.; by mail, 55c.
- Simplicity. Each, 10c.; by mail, 15c.
- Miller's. Sets on hive like a super; holds about 25 pounds of syrup. Nailed up, complete, 35c.; in flat, 30c.
- Boardman's. Price, 30c.; without jar, 20c.
- Division Board Feeders. Each, nailed, 30c.

If you have Beeswax to sell, send it to us. We will take it in trade, or pay you cash.

HIVE FIXTURES AND SUPPLIES—Continued.

HONEY EXTRACTORS.

Ball bearings and slip gear devices are furnished on all of our Extractors.

THE NEW ROOT AUTOMATIC EXTRACTOR. Fitted with a brake that reverses the frames instantly without jar or injury and without stopping. This is an exclusive feature of the Root Automatic. We furnish the 4-frame size. **Price, \$30.00.**

NO. 5, NOVICE.

Two-frame for any size frame not over 9½x18½ inches; weight, 35 pounds. **Price, \$10.50.**

NO. 15, COWAN REVERSIBLE.

Two-frame. **Price, \$13.75.**

FREE.

We will gladly mail our complete illustrated and Descriptive Bee Supply Catalog if you wish it. We have plenty, so don't be backward.

SMOKERS.

(See cut.)

Every owner of a hive of bees should have a smoker. A few blasts of smoke will quiet the bees so that they can be handled with safety. (See cut of the leading kinds.)

Clark's Cold Blast. Probably the most popular smoker in use today.

Price, 60c.; by mail, 75c.

Improved Cornell. Makes a good, strong blast. **Standard size, 3¼-inch, \$1.00; by mail, \$1.25.** **Standard Jumbo, 4-inch, \$1.50; by mail, \$1.85.** **Copper, \$1.50; by mail, \$1.75.** **Junior, 2½-inch, 85c.; by mail, \$1.05.**

Vesuvius. A hot-blast, breech-loading smoker. **Price, \$1.10; by mail, \$1.35.**

Crane. Similar to the Bingham, but somewhat heavier. **Price, \$1.35; by mail, \$1.65.**

Danz, 20th Century. Combined hot and cold blast. **Price, \$1.15; postpaid, \$1.40.**

Bingham. This is strong, well made. The "Conqueror" and "Doctor" not excelled for use in large apiaries.

Each. By mail.

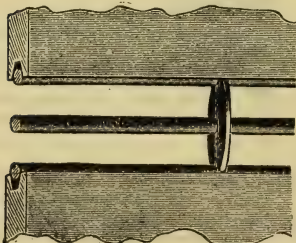
Bingham Conqueror	\$1.00	\$1.25
Bingham Little Wonder .....	.60	.75
Bingham Doctor	1.25	1.50
Bingham Large .....	.85	1.05
Bingham Engine	1.60	1.85

BEE ENTRANCE GUARDS.

Root's or Tinker's. These are to admit workers, but exclude drones.

Price, 10c.; by mail, 15c.

Improved Wire Front. **Price, 20c; by mail, 25c.**



NEW STYLE WOOD AND WIRE HONEY BOARD.

No sharp edges for the bees to pass over.

FOUNDATION FASTENERS.

Parker's. Well worth the price.

Price, 35c.; by mail, 50c.

Daisy Foundation Fastener. Will put starters in better and faster than any machine before introduced.

Price, without lamp, \$1.00; with lamp, \$1.25.

Van Deusen Wax Tube Fastener.

Price, 20c.; by mail, 25c.

WIRE IMBEDDERS.

The Easterday. **Price, by mail, 25c.**

Spur Wire Imbedder. Teeth set so as to straddle the wire while imbedding it.

Price, 20c.; by mail, 23c.

WAX EXTRACTORS.

Doolittle Solar Wax Extractor. With this the sun supplies the heat; weight 30 lbs.

Price, \$4.60.

Root's German Wax Extractor.

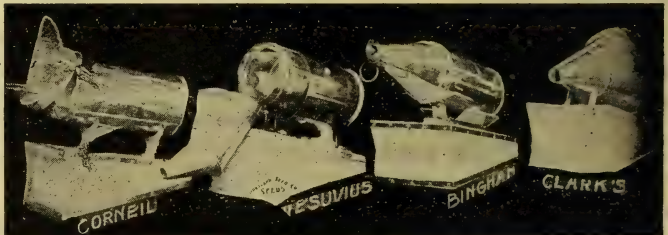
Price, \$13.00.

Hatch Wax Press.

Price, \$ 7.35.

Swiss Wax Extractor. Comb is put in wire basket inside of can and set over hot water. Simple and good.

Price, \$3.75; with steam generator, \$4.75.



BEE VEILS.

Globe. Has five bars that keep veil away from head. **Price, 90c.; postpaid, \$1.00.**

Hat Veils. These veils have a rubber band round the top, so as to fit the hat snugly.

No. 1 Veil, made entirely of silk tulle.

90c., postpaid.

No. 2 Veil, cotton tulle, silk face.

65c., postpaid.

No. 3 Veil, cotton tulle throughout.

50c., postpaid.

HONEY KNIVES.

Novice. **Price, 85c.; by mail, 95c.**

Quincy. **Price, \$1.00; by mail, \$1.10.**

Bingham. **Price, 80c.; by mail, 90c.**

15c. Honey Knife. Broad, square blade. **By mail, 20c.**

PERFORATED ZINC.

Used for making honey boards, also entrance guards, queen and drone traps, etc.

Perforated sheets, each, 32x96, \$2.00. Less than a sheet, per square foot, 10c.; by mail, 10c. per foot extra.

HONEY BOARDS.

Used to confine the queen to the brood chamber. Nos. 1 and 11 are unbound zinc. Nos. 12 and 13 are wood-bound, with a bee space one side.

No. 11 8-frame, unbound, 12x19¼ inches.

One, 25c.; ten, \$1.80.

No. 1. 10-frame, unbound, 14x19¼ inches.

One, 25c.; ten, \$1.90.

No. 13. 8-frame, wood-bound, 13¾x20 ins.

One, 30c.; ten, \$2.40.

No. 12. 10-frame, wood-bound, 16x20 inches.

One, 30c.; ten, \$2.50.

No. 8. 8-frame, wood and wire, 13¾x20 inches.

One, 40c.; ten, \$3.75.

No. 7. 10-frame, wood and wire, 16x20 inches.

One, 45c.; ten, \$4.00.

HIVE FIXTURES AND SUPPLIES—Continued



BEE BRUSHES.

Davis'. (See cut.) Price, 20c.; by mail, 25c.
 Coggsall's. (See cut.) Price, 20c.; by mail, 25c.
 Dixie. (See cut.) Price, 20c.; by mail, 25c.

GLOVES, RUBBER.

Ladies'. Sizes 7, 8, 9. Price, \$1.20; by mail, \$1.30.
 Men's. Sizes 10, 11, 12. Price, \$1.25; by mail, \$1.35.
 Men's Half Long. Sizes 13, 14, 15. Price, \$1.50; by mail, \$1.60.

Note.—To insure getting proper size, mark outline of hand on sheet of paper.

NO. 30 TINNED WIRE.

¼-ounce spools. Each, \$0.05; dozen, \$0.40.
 ¼-pound spools. Each, \$0.15; dozen, \$1.30.
 ½-pound spools. Each, \$0.25; dozen, \$2.00.
 1-pound spools. Each, \$0.35; dozen, \$3.25.
 5-pound coils. Each, \$1.35.
 By mail, 1c. per ounce extra.



MISCELLANEOUS SUPPLIES

Queen Cell Protector. Doolittle. Each, 3c.; by mail, 5c.
 West's Cell Protector. 10 for 65c.; by mail, 75c.
 West's Spiral Cage Feeder. 10 for 80c.; by mail, 90c.
 Hive Clamps. Per pair, 5c; 10 pairs, 40c; by mail, 75c.; without screws, 10 pairs, 35c.; by mail, 65c.
 Hill's Device. For covering frames in winter. 10 for 60c.; by mail, \$1.00.
 Hubbard's Section Press. Price, \$2.85.
 Roots Section Press. Price, \$2.20.
 Hive Tent. Weight, 6 lbs. Price, \$3.00.
 Books for Bee Keepers. See page 84.

A B C and X Y Z of
 Bee Culture
 Page 84

ROOT HIVE TOOL.

Japanned cast iron, strong enough for all reasonable usage. Price, 20c.

PERFECTION.

Portland Seed Company,
 Portland, Ore.

Drain, Ore., June 26, 1909.

Gentlemen: The Twenty Dollar Bee Supply Outfit ordered has been received, and the goods set up. Everything went together all right in fine shape. The goods are all O. K. The Danze Outfit is just perfection. That premium book is an idol, binding and all. Am much obliged to you. Yours truly, till we want more. L. W.

WIRE NETTING FOR POULTRY RUNS AND TRELLISES, ETC.

	12 in.	18 in.	24 in.	30 in.	36 in.	48 in.	60 in.	72 in.
2-inch mesh	\$0.90	\$1.25	\$1.70	\$2.10	\$2.60	\$3.30	4.15	\$4.90
1-inch mesh	\$2.00	2.95	3.90	\$4.85	5.80	7.80	9.80	11.70

Short lengths, 2-in. mesh, 1c. square ft.; 1-inch mesh, 3c. Prices subject to change without notice.

EXPERTS REPORT ON FIRELESS

Tacoma, Wash., May 26, 1909.

Dear Sirs: What is the price of the "Mandy Lee" Fireless Brooder? As you know, I won one at the Portland Poultry Show that you sent me. I have given it a trial and find it entirely satisfactory, and a lot less trouble than the lamp brooders.

Yours very truly,

FRED A. JOHNSON.

Poultry Yards, 518 South 35th St.

QUEEN BEES AND COLONIES

We are in position to furnish full-blooded Italian queens, and full colonies. It takes about five days to get these in from the apiary, so do not expect queens by return mail.



Untested Queen. April, \$1.75; May, June, July, August, September, \$1.50.

Tested Queen. April, May, June, July, August, September, \$2.50.

Selected Tested Queen. April, \$3.50; May or June, \$3.00; July, \$2.50; or September, \$3.00.

Full Colony. In an 8-frame hive. Price, \$8.00.

CAGES FOR QUEENS.

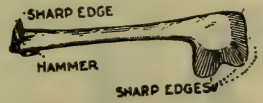
Benton. For mailing and introducing. Each, no candy, 5c.; by mail, 7c.; with candy, each, 10c. by mail.
 The Peet. Each, 10c.; by mail, 12c.

THE ROOT QUEEN REARING OUTFIT

A complete set of tools and materials, including book of instructions, enabling any one with very little experience to rear his own queens at small expense. Price, \$4.75.

MANUM'S SWARMING DEVICE.

A most complete swarming device. The swarmer is light, conveniently carried, and will reach a swarm 20 feet from the ground. Complete, \$1.60; wire basket, with bail, no pole, \$1.20.



HYGROMETER O. K.

Sutherlin, Ore., March 24, 1909.

Gentlemen: Your favor of the 23d reminds me that in the rush of things I have simply neglected to acknowledge your kindness in promptly sending another Hygrometer and also to return the one. I found on further test that the first meter was all right. We simply did not have sufficient moisture to get any register. I thank you for your attention. Am returning one of the instruments with this mail. Yours truly,
 C. F. B.

POULTRY SUPPLIES

We make a special study of local conditions and requirements, employ several expert, practical poultry men, and with our experience and splendid facilities believe we are in a position to render our customers more economical and satisfactory service than can be secured elsewhere. Write us your wants or plans. We shall be pleased to advise or help you.

"MANDY LEE" INCUBATORS.

The manufacturer has faithfully lived up to his promise to maintain the high standard of the "Mandy Lee," and last season gave us the "Mandy Lee" Hygrometer, one of the greatest inventions ever offered to poultrymen, as it enables the operator to accurately control the moisture in the egg chamber and there is never any "guess work" with the "Mandy Lee." Equipped with this Hygrometer the 1909 "Mandy Lee" hatched more strong, healthy chicks from a given number of fertile eggs than any other incubator, and its efficiency in this respect cannot be improved upon.

But the perfection of the mechanical details of construction is being constantly advanced, as new conditions arise.

This aggressive alertness and untiring zeal, together with the knowledge and splendid facilities of the Lee Company keep "Mandy Lee" Incubators and Brooders well in advance of all other makes, and

The 1910 "MANDY LEE" INCUBATOR

here illustrated represents the highest attainment to date in incubators as regards percentage of vigorous chicks hatched, accuracy of control of heat, moisture and ventilation, convenience of operation, safety and economy, simplicity, beauty, and durability of construction.

The most important change in the 1910 model has been in the heater, which has

A special burner with high wick tube and wide flame slot.

- A Lamp bowl in one piece.
- A self seating chimney.
- A special vent for any gas forming in the lamp.

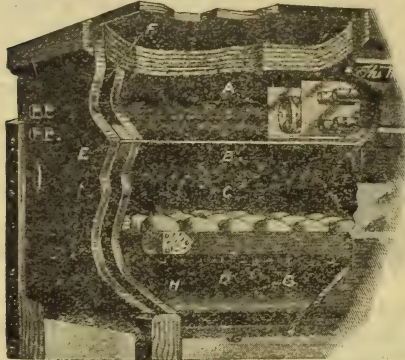
A perforated sheet metal cylinder in top of heater which puts out the lamp in case of accident.

A protecting circular shield guarding the body of the incubator.

As a further precaution the lamp cannot be filled without removing it.

All parts exposed to heat are fully protected by sheet metal and asbestos.

This heater passed the most rigid tests at the Underwriters' Laboratories in Chicago and could not be exploded nor could the incubator be set on fire from the heater. The "MANDY LEE" is absolutely fire proof.



Sectional View Mandy Lee Incubator.
Note the double walls and thick packing.

- A—Perforated Tubes of heating chamber.
- B—Inlet Pipe from heater.
- C—Upper Ventilator of egg-chamber.
- D—Lower Ventilator of egg-chamber.
- E—Air-tight Diaphragm.
- F—Packing in walls and top.
- G—Chick-Nursery Bottom.
- H—Duck-Nursery Bottom.



MANDY LEE HYGROMETER
registers the moisture. As easily read as a thermometer.

Free with every Incubator.
Ordered separately—

Each \$2.50 postpaid.

DESCRIPTIVE BOOKLET FREE.

Another special feature for 1910 is the moisture pan in the top of the egg chamber. This is covered or exposed at will by a lever rod from the front without opening the incubator, a simple, practical solution of the moisture pan problem, as no satisfactory automatic water supply has been perfected, and none is needed as the adjustment required is infrequent.

"LEE INDIVIDUALITY."

A Few Exclusive Features of the "Mandy Lee" Incubator.
The perforated tube system of heating and ventilation giving a uniform distribution of heat and a uniform supply of fresh air.

Sheet metal air-tight diaphragm, dividing the egg chamber and preventing the draft from the lamp, gases, and superheated air from coming in contact with the eggs. **A vital point.**

Convenient adjustment of ventilation by one damper.

Special front ventilators for warm weather control of moisture.

Special Adjustment of egg-tray, thermometer and nursery, making the "Mandy Lee" Incubator adaptable to any size egg, from Bantam to Ostrich.

Drop nursery bottom, permitting removal of chicks without opening incubator.

The "Mandy Lee" Hygrometer for regulating the moisture and the improved Heater and moisture pans noted above.

The handsome cabinet construction of the "Mandy Lee," with its trimmings of solid brass and bronzed metal and beautiful cherry finish easily make it the most elegant and attractive incubator.

MADE IN THREE SIZES.

- New Fire-Proof Heater.**
- A—Perforated Cylinder.
 - B—Damper.
 - D—Knife-edge Balance.
 - E—Yoke for Balance.
 - F—Adjusting Rod.
 - J—Metal Tube.
 - M—Adjusting Nut.
 - T—Lamp.
 - V—Drip Pan.

280-Egg Size	.....	\$34.00
140-Egg Size	.....	22.00
100-Egg Size	.....	16.00

Prices are F. O. B. Portland, carefully packed.
Hygrometer with each machine.

We have stated a few important details and reasons why you should use the Lee products, and will be pleased to mail you the valuable Lee Booklets free on request. They contain much that is of interest to poultrymen.

Direct
Contact
Heat



„Just
Like
the Hen.”

THE ONLY BROODER THAT PROVIDES NATURAL BROODING CONDITIONS

“Hovers ‘Em
like a Hen”



Showing
portion of
Hover,
Lamp,
Extension-
Chimney, etc.

No. 1
Regular
“Mandy Lee.”

THE idea of applying a soft contact heat direct to the backs of the chicks was never incorporated into anything practical until Lee began the manufacture of the “Mandy Lee,” nor until that time had the correct principle of brooding been recognized, namely, that the little chick cannot comfortably breathe the same heat required for giving a comfortable warmth to its body.

FOR INSTANCE: Some night when you are lying in bed snugly covered and comfortably composed for sleep, just put a thermometer under your clothing next to your body, and take the temperature of the air immediately surrounding your real self. You will find it to be somewhere between 95 and 98 degrees. Now, suppose that instead of this method of comfortably warming yourself, you should go and lie naked in a room heated to even 95 degrees. You can imagine how uncomfortable you would be. Perhaps you may recollect some hot summer evening when you rolled and tossed all night, unable to sleep on account of the heat. This is because you cannot be either comfortable or healthy if your head is as warm as your body. (Buy a brooder with blankets.)

THE HOVER—A long, narrow hover—the ideal shape—heated evenly from end to end by a triple set of overhead pipes, one pipe passing entirely through and carrying out all the smoke, gas, etc., from the lamp, which is located outside the brooder.

Again, a second pipe carrying cold, pure air into the hover, which is heated by the first pipe, and that heated air heats the blanket to the temperature of a hen's body.

The hover blanket is made of regular bed blankets, shaped in the form of a semi-circle, hanging loosely and in the center to within an inch of the floor, and with curtain front and back. (See sectional view.)

SOFT-CONTACT HEAT—Here is how the chicks get that soft, contact heat, so natural, so necessary to their comfort, and so entirely absent in other brooders.

The little chicks lay with their backs up against this warm blanket, just like a hen's body, and their heads out in the open air, just like illustration above.

There is no crowding here; no smothering; no trampling. Each chick gets just as much heat as it wants and no more. In other brooders all the chicks must get the same amount of heat, but not so in the Mandy Lee. It's a natural mother for them.

MANDY LEE IN THE LEAD—Is it to be wondered at, then, that Mandy Lee Brooders are displacing all other makes in the best poultry plants of the country;

Or that we have never had a complaint on a Mandy Lee; Reason it out for yourself. The question is not “Can you afford to buy a “Mandy Lee?” but rather, “Can you afford not to buy one?”

“MANDY LEE” Brooders come in four styles:

THE NO. 1, OR REGULAR, which we recommend for all general purposes.

THE NO. 2, OR SECONDARY fills a demand for a practical, economical method for caring for chicks from three to eight weeks old.

THE SECTIONAL, which is the cheapest and best practical arrangement for economizing space in Brooder Houses, and the

NEW FIRELESS BROODERS, which have given splendid satisfaction, and are very popular as they are safe, and economical.

No. 1, OR REGULAR “MANDY LEE”

Outside dimensions, 3x4 feet. It is as large as any 200-chick brooder on the market, but we call it only 100-chick size—50 chicks on each side of the hover. It will hold more, but it doesn't pay to crowd. Better have 50 healthy chicks in your brooder than 100 weakly, sickly ones. The cost of a few brooders is insignificant as compared to the value of the season's hatch. Price complete, including Box Germozone, Drinking Fountain and Thermometer, \$15.00.

MANDY LEE BROODERS—Continued.

No. 2 SECONDARY BROODER



Mandy Lee
Secondary
No. 2

This is a larger, more roomy and less expensive brooder for older chicks or those from three to eight weeks of age. It is all hover, and, while occupying no more floor space than the other brooder, gives fully twice the actual brooding capacity.

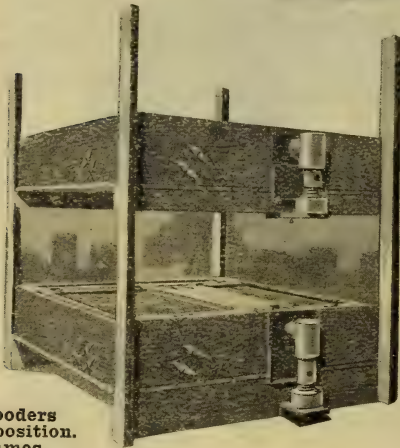
It is simply a great, big mother hen, sitting on the floor of the brooding house, and under which the chicks go at night or when feeling the need of warmth.

Once used, this brooder is almost indispensable. It seems to fit into a place no other brooder can occupy.

It can be used anywhere—in a poultry-house, barn, shed, piano box—just so it is protected from wind and storm. **Price, \$9.50.**

LEE SECTIONAL BROODERS

This is a new brooder, very similar to the regular Mandy Lee Brooder, but designed for consecutive arrangement in the brooder-house, and in two tiers, one above the other, to economize space. **Price, \$13.00.** Lee's Catalog tells all and shows illustrations. The best brooder-house idea we know of.



Brooders
in position.
Frames
raised on
lower section

SECTIONAL

"MANDY LEE FIRELESS BROODER"

Safe, Economical, Practical

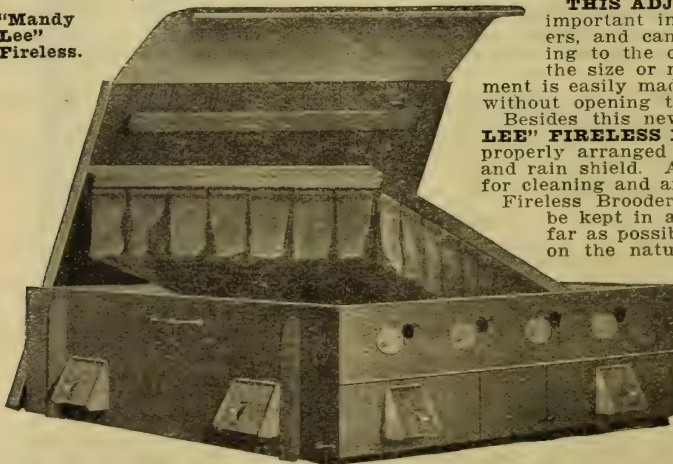
The Fireless Brooder has come to stay. **No Lamps, Gas or Smoke** to contend with, no danger of fire. The natural heat of the body is conserved and evenly distributed in the "Mandy Lee Fireless."

We sold a large number of "Mandy Lee Fireless" last season to satisfied customers, and we anticipate a big demand for 1910, as there is no longer any doubt as to their brooding qualities, it having been demonstrated that stronger, more vigorous chicks can be raised in a Fireless than in a heated brooder.

The "Mandy Lee Fireless" for 1910 has two distinctive features that are a change from last season, the first being the shape of the brooder, which is now made square in both sizes, allowing a more even distribution of heat and air.

THE ADJUSTABLE HOVER is the second and more important and is made as light as possible, being a special weave of open-mesh flannel stretched on a light frame in such a manner as to give a proper circulation of air and even distribution of heat.

"Mandy
Lee"
Fireless.



THIS ADJUSTABLE HOVER is the most important improvement in Fireless Brooders, and can be raised or lowered according to the outside temperature or to suit the size or number of chicks. The adjustment is easily made from the front of the Hover without opening the top.

Besides this new Adjustable Hover, "MANDY LEE" FIRELESS BROODERS have double doors, properly arranged ventilators, metal covered top and rain shield. All parts are readily accessible for cleaning and airing.

Fireless Brooders, like other brooders, should be kept in a place of even temperature as far as possible, and as the warmth depends on the natural heat of the body, enough chicks should be together to maintain the proper temperature. This can then be regulated by the Adjustable Hover.

Don't overcrowd your Fireless Brooder; treat it like any other brooder and you will get larger, more vigorous chicks that feather out earlier than those raised in the heated brooders.

"Mandy Lee Fireless Brooders" are made in two sizes: { No. 8, for 100 chicks, \$6.00;
No. 10, 200 chicks, \$9.00.

**MISCELLANEOUS
POULTRY SUPPLIES**

SANITARY SELF-FEEDING BOX.

(See cut.)

Made of heavy galvanized iron; soon pays for itself in preventing waste of feed. For keeping grit, shells and charcoal before the fowls at all times. **Price, each, 75c**

MANN'S SWINGING FEED TRAY.

(See cut.)

For water or feed. Fowls cannot scratch dirt into it, or feed out of it, nor roost on it; yet will not tip over or spill the food out.

Price, 18 inch, \$1.00; 27 inch, \$1.25; 36 inch \$1.50.

WIRE-COVERED FEEDING TROUGH.

Decidedly convenient for young chicks. (See cut.) **Price, 35c; by mail, 50c.**

**GALVANIZED WALL
FOUNTAINS.**

(See cut.)

Something new and serviceable. To be hung on the wall or against an upright post, at any height. The hood over the trough protects the water from becoming soiled. Anyone can easily see the convenience of these.

One gallon size. **Each, 75c.**
Two gallon size. **Each, \$1.00**

SANITARY STONE FOUNTAINS.

(See cut.)

These are strong and well finished; made in two pieces and easily washed and kept clean. They probably keep the water cooler than the galvanized fountains, but are heavier to handle and more liable to break.

Price, 1/2 gal., 35c; 1 gal., 50c.

GALVANIZED IRON DRINKING FOUNTAINS.

Our Galvanized Iron Drinking Fountains embody every good feature of the down-to-date drinking fountains, and, we believe, are the best in use. They are easily filled, cleansed and kept clean. If placed in the shade in summer time, the water will keep nearly as cool as in an earthen vessel. They are much lighter than the earthenware fountains and are safer to ship. A dozen can be put in a compact package for shipment, as they nest together. We offer them at a very low price.

Small size **Each, 30c; six, \$1.70**

Medium size..... **Each, 40c; six, \$2.25**

Large size..... **Each, 50c; six, \$2.75**

WIRE HEN'S NESTS.

(See cut.)

Strongly made; very durable; fasten to the wall; no harbor for vermin.

Price, each, 25c; dozen, \$2.50.

EGG TESTERS.

(See cut.)

X-Ray. This Egg Tester is made to use on a lamp and will fit the ordinary No. 2 burner.

Price, 50c; postpaid.

Harding's Perfection. For sunlight. (See cut.) **Price, 60c; postpaid.**



HARDING'S EGG TESTER.



WIRE NEST.

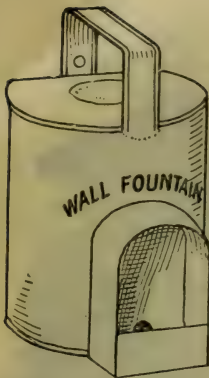
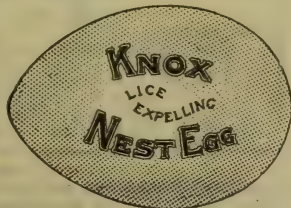


X-RAY TESTER.

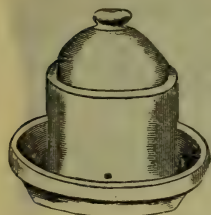


OPAL
NEST EGG.

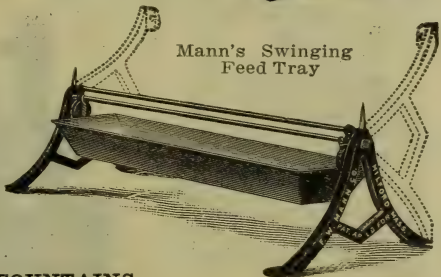
THIS IS
JUST
WHAT
YOU
WANT



Stone Fountains.



Mann's Swinging
Feed Tray



Wire-Covered Feed Trough.

CHINA NEST EGGS.

Best grade Opal Eggs.

Price, 3 for 10c; 12 for 35c; 20c per dozen extra for postage.

KNOX LICE-KILLING NEST EGG.

A combined nest egg and lice killer. By simply using it in the nests in the same manner as an ordinary nest egg is used, laying hens are cleared of lice and mites, and are able to occupy the nests with comfort. Do not accept worthless substitutes.

Price, each, 10c, postpaid; per dozen, 75c; postpaid, \$1.00.

PREMIUMS.

We offer you many good premiums; see Inside Back Cover.

MANN'S BONE CUTTERS

**THE ONLY BONE MILL THAT WILL CUT BOTH GREEN AND DRY BONE.
WILL NOT CLOG.**

If you want a new machine—one that has every late improvement, one that is really "ahead of the times"—buy a Mann's. It does the work with the greatest ease. It makes every hen a paying hen. A trial will prove it.

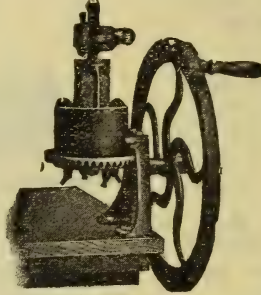
The Mann's Green Bone Cutter is offered to the poultry world on a warranty to produce a perfectly edible poultry food, with no waste, from any lot of green bones, with less labor and less annoyance than any other bone cutter.

We send the Mann's to any responsible poultryman with this understanding, if you are not satisfied that it meets every claim we make for it, notify us and we will give you instructions to return the machine, and will, upon receipt of same refund purchase price. Could you ask more?

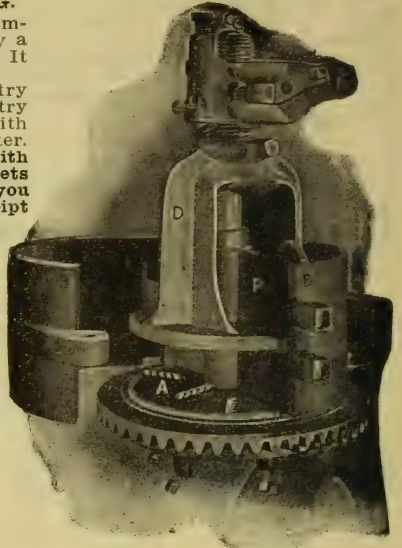
The Mann's is the only machine which has a self governing feed, producing uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

MANN'S NO. 5

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. We can furnish with crank, balance wheel, or mounted on iron stand. (See cut.)



Mann's No. 5 B.



Mechanism of the Mann's Showing automatic force-feed, cylinder parts, etc. Mann's catalog tells all about it.

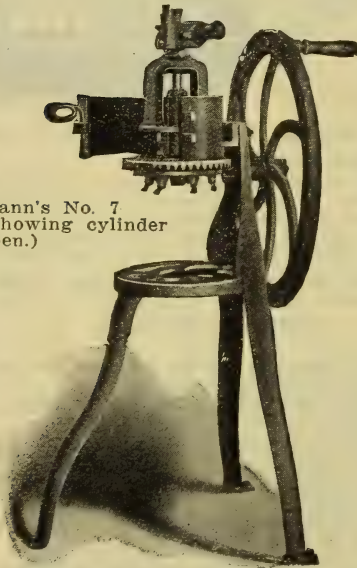
MANN'S NO. 7

The New No. 7 is mounted on a strong iron stand, and has patent automatic governing spring feed. Large, opening cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.)

MANN'S NO. 7 $\frac{1}{2}$

Adapted to run either by hand or power without any change. The particular advantage of the 7 $\frac{1}{2}$ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. It has all the improvements. It meets a long-felt want.

Mann's No. 7
(showing cylinder open.)



COULD NOT COMPETE WITH THE "MANN'S."

Portland Seed Company, Portland, Oregon.—Gentlemen: I herewith enclose check for \$15.00 in payment for the No. 7 Mann's Bone Mill which you recently shipped on ten days' trial in competition with the ————. In a half-hour after I received the mill I had it set up and was cutting bones, both dry and green. It does the work to my entire satisfaction and I am convinced it is built for long service. The ———— people had offered to ship their mill on trial, but when they learned I had a Mann's to try in comparison, they refused to ship. They claimed they had once handled the Mann's, and as they declined to meet it on a fair trial I accepted their action as an acknowledgment that the Mann's is the best mill. It's all right, and I am well pleased with it.

Thanking you for the privilege of trying it before buying, I remain, Most respectfully,
Glenwood Ranch. J. A. PEARSON.

"WORKS TO PERFECTION."

Talent, Ore., June 20, 1909.

Gentlemen:

The Mann Bone Cutter No. 7 that I bought of you arrived all right, and would say that I am well pleased with it. It does the work to perfection both on green and dry bone, and is a good corn chopper besides. Yours truly,
L. M. WILSON.

WELL PLEASED.

Lyman, Wash., March 15, 1909.

Portland Seed Co., Portland, Ore.

Dear Sirs:

Enclosed you will find a check for \$21.85 to pay for the Bone Cutter and the freight. We are well pleased with the Bone Cutter.

Yours truly,
A. S. PORTER.

MANN'S HANDSOME 40-PAGE CATALOG
Is fully illustrated and tells all about the different style green bone cutters, clover cutters, corn shellers, grit smashers, etc., and contains much valuable information. Free on request.

BONE CUTTERS—Continued

MANN'S NO. 9

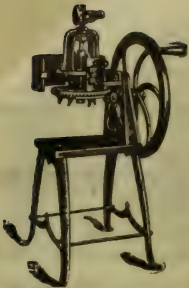
About the same as No. 7, except that it has a larger cylinder and greater holding capacity, different design and larger table.

MANN'S NO. 11

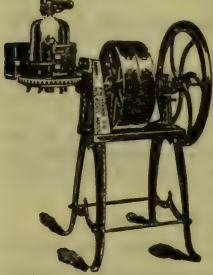
The No. 11 is exactly the same as No. 9, with the power parts added. It has all the latest improvements. Capacity, 100 pounds per hour.

MANN'S NO. 12—POWER.

Strictly a power machine, and full of business from top to toe. Capacity, 120 to 150 pounds per hour. Horsepower required, one to two. Just the machine for marketmen, extensive breeders, or any one who has large quantities of bone to cut.



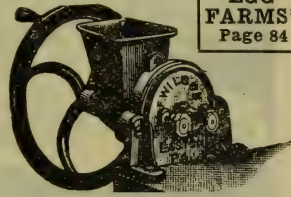
MANN'S NO. 9.



MAN'S NO. 11.

PRICE LIST OF MANN'S BONE CUTTERS.

New Styles	Price.	Wgt.
No. 5 C (with crank handle)....	\$ 7.75	30
No. 5 B (with balance wheel)..	10.00	55
No. 5 BM (B. W. and iron stand).	13.00	80
No. 7 (B. W. and iron stand).	15.00	107
No. 7½ (hand or power).....	21.00	150
No. 9 (B. W. and iron stand)..	22.00	163
No. 11 (power machine).....	30.00	215
No. 12 (power machine).....	35.00	260
No. 15 (power machine).....	67.50	420



Wilson Mill No. 1.

WILSON DRY BONE MILL NO. 1

This is a practical mill, grinding all kinds of shell, crockery, grit, burnt or dry bone, feed, etc. Instantly adjusted to grind coarse or fine. Every poultry keeper should have one of these mills. You will find them very convenient and serviceable. Weight, 33 pounds. Diameter of hand wheel, 20 inches.

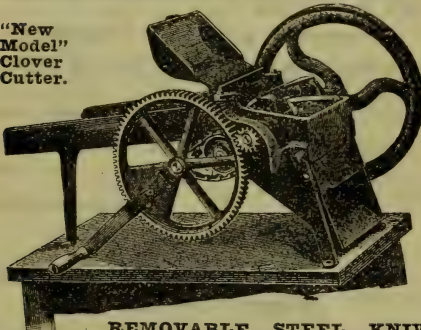
Price, \$5.50

WILSON MILL NO. 0

A family grist mill in itself. Especially made for grinding flour, corn meal, spices, coffee, etc., for table use. It can also be adjusted for cracking grain. Capacity and size same as No. 1; hopper round. Weight, 30 pounds.

Price, \$5.50.

"New Model" Clover Cutter.



REMOVABLE STEEL KNIVES—ADJUSTABLE CUTTER BAR—RUNS EASY—CUTS FINE—IS DURABLE.

The "New Model" Clover Cutter is designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into ½-inch lengths. These growths are the cheapest and most productive egg-forming poultry foods for cold weather.

The feature that gives the "New Model" easy supremacy over similar machines is the cutting mechanism. The machine can be kept in perfect cutting order at all times, because the cutter bar is adjustable and easily accessible, and the four 7-inch spiral steel knives can readily be removed for sharpening. Those who are familiar with "ordinary" Clover Cutter construction will appreciate these improvements.

The "New Model" is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work indefinitely. Length over all 28½ inches.

The machine is intended to be mounted on a box or bench at any height to suit the operator. Weight 60 pounds.

MANN'S CLOVER CUTTER.

Price, \$10.50.

Made entirely of iron and steel; cannot warp or shrink. It cuts any kind of hay or clover, either dry or green, and more rapidly than any other make. Each revolution of the balance wheel produces twelve cuts. Do not buy a clover cutter until you have seen Mann's.

Price, \$10.50; mounted on iron stand, \$12.00.

MANN'S CAST IRON MORTAR.

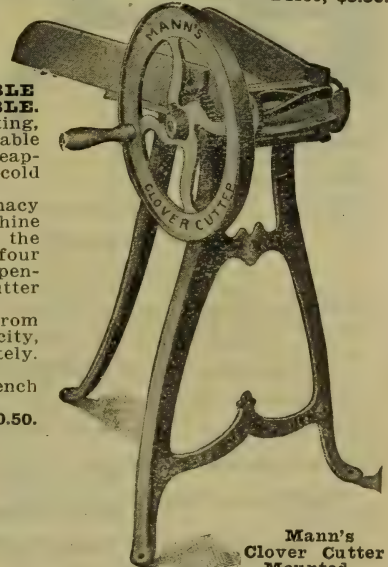
For breaking glass, crockery ware, oyster shells or other dry substances for poultry. Weight, 33 pounds; height, 12 inches; 9 inches square; pestle 4 feet long.

Price, \$3.50.

MANN'S CORN SHELLER.

Best low-priced corn sheller made. A profitable tool if you have corn to shell.

Price, \$3.00.



Mann's Clover Cutter Mounted.

BOND'S GRIT MACHINE.

Will break rock, limestone, ore, crockery, glass, dry clam and oyster shells, etc. A boy of seven can work it. Drop the material in the top and work lever up and down quickly, but not with great pressure. Do not use green bone or wet oyster shells, but dry them. Weight, 25 pounds.

Price, \$4.00.

"EGGS and FARM'S" Page 84

MISCELLANEOUS POULTRY SUPPLIES

LEG BANDS FOR POULTRY AND PIGEONS. (See cuts.)

Every chicken must have a leg band on before it can be entered in a poultry show. In ordering Leg Bands be sure to state sizes wanted, or breed of fowls bands are to be used on, and number wanted for males or females.

LEADER—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, 12 for 20 cents; 25 for 35c; 50 for 60c; 100 for \$1.00.

CLIMAX—The "stay on" kind; very popular; rings made of spring brass wire; tags of aluminum.

Prices, postpaid, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c.

DOUBLE CLINCH—A new band, very safe; no exposed corners, ends or loops; has double fasteners.

Prices, postpaid, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c.

ECLIPSE—Flat aluminum bands, no sharp corners or edges; easiest flat band to put on.

Prices, postpaid, 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c.

SMITH SEALED—Of aluminum and so constructed that by simply crushing a soft rivet they are sealed on the bird's leg, and must be destroyed to be removed. (See cut, band sealed with letter R.)

Prices, postpaid, 12 for 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.

PIGEON BANDS—We can supply the Double Clinch or Sealed Band at above regular prices, or the Open Band—you simply clasp it on—at the price of Eclipse.



LEADER BAND



RELIABLE POULTRY PUNCH



Roost Hangers.

ASPINWALL SPRAYER.
The best low-priced liquid sprayer made. See page 97.

DIAMOND "SCRATCH FOOD"
Page 122

SMITH SEALING TOOL.

Made especially for sealing the Smith leg bands.

Plain jaw, 50c; lettered jaw, any letter, 75c; postage 10c.

PETTY'S POULTRY PUNCH.

Latest, most convenient Poultry Punch; can be put on a key ring or used for a watch charm. Will not clog. Thoroughly practical.

Price, postpaid, 25c.

RELIABLE POULTRY MARKER.

For marking the web between the toes. One of the best and handiest markers.

Postpaid, 35c.

POULTRY KILLING KNIFE.

French, best and most popular.

Price, postpaid, 50c.

INSECT POWDER GUN.

There is no need to waste any powder if you use this small hand powder blower. Detachable bottom for filling. For use in applying insect powder of any kind on poultry, dogs or cats.

Price, each, small, 15c; large, 30c, postpaid.

ROOST HANGERS.

(See cut.)

Fill the cup with lice killer or coal oil. Poultrymen should not be without them. Will keep the birds free from vermin.

Price, each, 10c; per dozen, \$1.00.

CAPONIZING INSTRUMENTS.

The demand for capons exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters.

P. S. Co.'s Standard, the best low-priced set. Price, postpaid, \$2.00.

Wigmore, a first-class outfit with book of instructions. Price, postpaid, \$2.50.

P. S. CO.'S SHIPPING COOPS.

All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

No. 1.	10x21x18.....	Each.
		\$0.30
No. 2.	10x24x20.....	.40
No. 3.	20x24x20.....	.50

THERMOMETERS.

FOR INCUBATORS—Tested.

Fig. 8—Cornell style.....	\$1.00
Fig. 6—P. S. Co.'s triangle shape; metal back.....	.75
Fig. 10—P. S. Co.'s straight metal back..	.60
Fig. 14—Triangle shape; best incubator thermometer made. Certified correct; worth the additional cost.....	1.50
Mandy Lee style.....	.80

FOR BROODERS.

Fig. 12—Peep O' Day.....	.65
Fig. 2—P. S. Co.'s; for any style brooder	.50
Mandy Lee style.....	.60

FOR GENERAL USE.

Cabinet, 8-inch wood back, nice finish....	.40
Fig. 4—Household, 7-inch, black enamel, tin case.....	.25

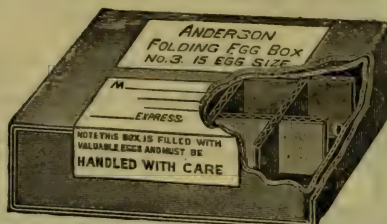
RELIABLE FEED COOKER.

Holds 20 gallons; weight, 65 lbs.; length, 24 inches. See poultry Catalog for full description. Price, \$8.00.

MISCELLANEOUS POULTRY SUPPLIES—Con'd



Egg Carrier.



Set up ready to ship.



Ideal Egg Box.

ANDERSON FOLDING EGG BOXES.

Made of heavy corrugated paper. The greatest advantage in it is that they can be bought K. D. (in the flat), and the express or freight will be about one-sixth of what it has been on the old style boxes. Only a few seconds' work to set the box up, pack it with eggs, and address it. These boxes are light, but very strong, being firmly braced, and will stand the weight of several hundred pounds without crushing.

- No. 3—15-Egg Size, 15c each; 6 for 80c; dozen, \$1.50.
 - No. 4—30-Egg Size, 25c each; 6 for \$1.25; dozen, \$2.25.
 - No. 5—50-Egg Size, 40c each; 6 for \$2.25; dozen, \$4.00.
- Sample box No. 3, postpaid, for 25c.

IDEAL PAPER EGG BOXES.

(See cut.)

Intended for use in delivering eggs to private families. If you have a "select" egg trade, you should use this box. Nicely printed with a blank space for your name and address. Printed to order in two M lots at no extra charge. They ship "knocked down" at very low rates.

Prices: 1-dozen size, 25c dozen; \$1.00 per 100; \$9.50 per 1000. Sample box by mail, 5c.

RELIABLE EGG CARRIER.

Nicely painted; equipped with the very best fillers. Patent top and sling handle. Holds twelve dozen. (See cut.)

Price, each, 75c.

HYDRO SAFETY LAMPS.

Oakes—Made especially for incubators and brooders; has a water jacket and is perfectly safe.

- No. 1—Small size, 3/8-inch wick.....\$1.00
- No. 2—Medium size, 1-inch wick.....1.50
- No. 3—Large size, 1 1/2-inch wick.....1.75

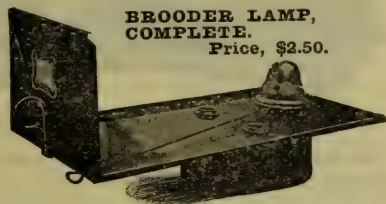
PEEP-O'-DAY BROODER LAMP.

Made of cast iron, with improved style burner, without chimney; no smoke, no smell; absolutely safe.

Price, each, \$2.50.

EXTRA PARTS.

We can supply extra lamps, burners and all parts of the different machines we sell at about Eastern prices. Write for prices of what you want.



BROODER LAMP, COMPLETE. Price, \$2.50.



Oakes' Hydro Safety Lamp.

REMEDIES, LICE KILLERS, ETC.

DIAMOND POULTRY REMEDIES

These are manufactured exclusively by us, and we fully guarantee them.

Diamond Roup Cure. Comes in powder form. Full directions in each box.

Price, per box, postpaid, 50c and \$1.00.

Diamond Cholera Cure. Comes in powder form. Soluble in water. Full directions on each box.

Price, per box, postpaid, 50c.

Diamond Microzone. Will cure Roup, Cholera, Swelled Head, Sore Eyes and most all Chicken Diseases. Every poultry keeper should have a bottle of this on hand. Liquid, cannot be mailed.

Price, per bottle, 50c.

TOBACCO DUST.

For use in dust baths and nests. A cheap and effective exterminator of lice.

Price: 1 lb., 10c; postpaid, 25c.

LAMBERT'S LICE REMEDIES.

Death to Lice. 5 oz., 10c; by mail, 17c; 15 oz., 25c; by mail, 40c; 48 oz., 50c; by mail, \$1.10; 100 oz., \$1.00.

Death to Lice—Special. Dissolve in kerosene. 4 oz., 10c; 16 oz., 25c; 1c per oz. extra for postage.

Death to Lice Ointment. For lice on chicks, scaly shanks on fowls of any kind.

1 oz., 10c, postpaid; 3 oz., 25c, postpaid.

CONKEY'S ROUP CURE.

One of the best roup and canker cures on the market.

Price, per box, postpaid, 50c and \$1.00.

AVENARIUS CARBOLINEUM.

The famous German wood preserver and insecticide. Paint or spray your chicken house, hog pens, stables, sheds, etc., with Avenarius Carbolineum, to permanently destroy all poultry and other vermin and preserve your buildings from rot and decay.

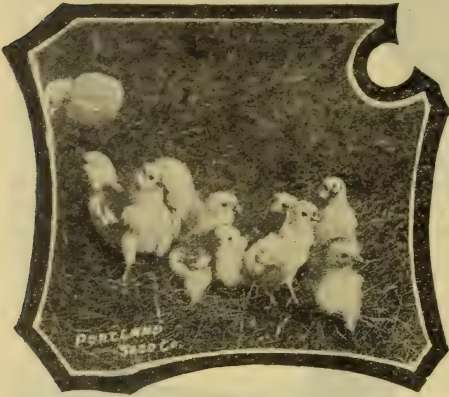
Quart can, 40c; gal., \$1.50; 5 gal., \$6.00.

PORTLAND SEED CO.'S "DIAMOND QUALITY" POULTRY FOODS

We manufacture our **Diamond Poultry Foods** from choice, clean, wholesome material, and they are the results of a lifetime of careful study and experiments by a thoroughly practical expert, who is a recognized authority.

PORTLAND SEED CO.'S DIAMOND CHICK FOOD.

Easy to Feed Just as It Is. The Chicks "Do the Rest."



A complete balanced ration, that will make chicks grow and keep them healthy.

Each year brings an increasing demand for our popular "Diamond Chick Food," and our annual output now averages over twenty carloads. This is our **proof of quality**.

The select grains that are used in the preparation of **Diamond Chick Food** are cut by special process, screened to a uniform size and run through a fanning mill to remove the dust and meal, which is the **fatal element** in most chick foods. After this process, the ingredients are carefully weighed and mixed in correct proportions. **No guesswork.**

You can raise so many more chicks by feeding it that it is the **cheapest feed you can buy**. Ask for descriptive pamphlet. Directions for feeding in each sack or package.

Look for our "**Diamond Brand**"; there are several substitutes on the market.

Prices: 5 lbs., 25c; 12 lbs., 50c; 25 lbs., 90c; 50 lbs., \$1.60; 100 lbs., \$3.00.

PORTLAND SEED CO.'S DIAMOND EGG FOOD.

Makes hens lay when eggs are high; keeps all poultry healthy. Unequaled for feeding young stock.

The most successful combination of egg-producing elements ever prepared, being a complete ground food for growing fowls and hens, encouraging rapid growth and increasing egg production. Can be fed dry or as a mash. **Diamond Egg Food** costs no more than other foods, and is of twice the feeding value.

Price, per lb., 3c; per 100 lbs, \$2 40.

DIAMOND SCRATCH FOOD.

The most successful "up to now" ready-mixed complete food. Makes hens sing, and singing hens lay. A perfect "working ration" for fowls. Grains, Grit, Shell, Beef, Bone and Charcoal carefully prepared in the correct proportion; a veritable "hens' delight, and a great egg-producer. Price, per lb, 3c; per 100 lbs., \$2.50

HIGH-GRADE BEEF SCRAPS.

Diamond Brand, Special. A new beef product, perfectly prepared, fine ground and clean. The highest feeding value yet produced.

Price: 5 lbs., 25c; 50 lbs., \$2.25; 100 lbs, \$4.00.

Steel Cut, granulated, clean and free from dust, hid, hair, etc. There is no waste; can be fed like grain if preferred. Every poultry keeper knows the value of this food.

Price: 5 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.75.

GRIT.

Every poultry raiser should keep a supply of this grit in each pen. Made in two sizes, chick and hen size. We always send hen size unless otherwise ordered.

Diamond Crystal

Price: 5 lbs., 10c; 100lbs., \$1.50.

Mica. An excellent grit. Per 100 lbs., \$1.25.

CHARCOAL.

Our Charcoal is guaranteed, prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver.

Prices: 1 lb., 10c; 10 lbs., 75c.

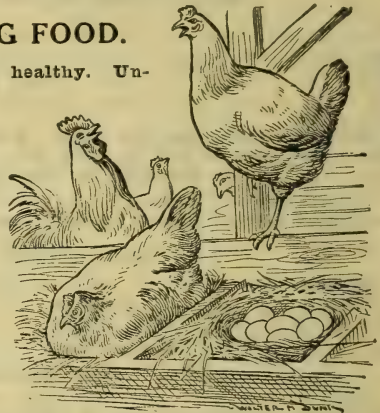
BIRD SEED.

Not for Planting. Special Prices in Quantity.
F. S. Co.'s Best Mixed Per lb., postpaid, 20c.
Canary—Best Re-cleaned Per lb., postpaid, 20c.
Hemp Per lb., postpaid, 20c.
Millet Per lb., postpaid, 20c.
Rape Per lb., postpaid, 20c
Cattle Bone. Large bone. Postpaid, 2 for 5c.

BLOOD MEAL.

The most highly concentrated egg-producer on the market. To be fed in soft food. Unexcelled as a food for forcing growth of chicks or as an egg food.

Price, 1 lb., 10c; 10 lbs., 60c; 100 lbs., \$3.75.



GRANULATED BONE.

Our "**Diamond Brand**" is made from selected hard, white, raw bones, and of a superior quality; an indispensable food for laying hens.

Diamond.

Price: 3 lbs., 10c; 10 lbs., 30c; 100 lbs., \$2.25.

Ordinary.

Price: 100 lbs., \$2.00.

HIGH-GRADE MEAT MEAL.

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat meal, but, as its name implies, meat, cooked, dried and ground; unexcelled for egg-production.

Diamond Grade.

1 lb., 5c; 10 lbs., 40c; 100 lbs., \$3.50.

Standard. Good grade..... 100 lbs., \$2.50

OYSTER SHELLS, CRUSHED.

We offer nice, clean stock, free from dust and waste. These should be within reach of your hens at all times. In two sizes, coarse and fine.

Diamond Brand.

Price: 5 lbs., 10c; 100 lbs., \$1.50.

Western.

Price: 5 lbs., 10c; 100 lbs., \$1.35.

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., 5c; 10 lbs., 35c; 100 lbs., \$1.50.

POULTRY PEPPER.

A good tonic and invigorator; ground.

Price: 1 lb., 25c; 5 lbs., \$1.00.

LEE'S FOODS AND REMEDIES FOR STOCK AND POULTRY

THE NAME INSURES QUALITY.

We are Western Agents for these goods, and have sold them for years, with never a dissatisfied customer. This is an extraordinary statement, but it is absolutely true.

The reason is plain to all users of Lee's goods—they are never misrepresented; they do all and more than is claimed for them, and the manufacturers constantly are striving to increase their value and efficiency.

If you have never used the Lee goods or remedies, get in line. You cannot afford to be without them. Get in touch with the Lee Company. Their valuable booklets are free to poultry-keepers, and contain the most reliable and complete information to date on all poultry problems.



LEE'S LICE KILLER

LIQUID. Destroys either by vapor or contact. No trouble to apply; just paint the roosts or walls at night. Rids poultry and houses of all vermin; is prepared exclusively for this purpose, and there is nothing just as good.

Price: Quart, 35c.; ½-gal., 60c.; gal., \$1.00; 5 gals., \$4.00.

LEE'S BEST CONDITIONER STOCK FOOD. Promotes good health, digestion and assimilation.

Put up in 25c and 75c pkgs.; 25-lb. pails, \$2.50.

LEE'S EGG MAKER is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition.

2 ½-lb. pkg., 25c.; 5 ½-lb. pkg., 50c.; 25-lb. pail, \$2.00; 100-lb. sack, \$7.00.

LEE'S HOG REMEDY cures all diseases of hogs and keeps them healthy.

Pkg. 75c.; 25-lb. pail, \$2.00.

LEE'S WORM POWDER for horses, cattle, sheep and hogs. Safe and sure in result.

Pkg., 25c; by mail, 40c.

LEE'S MIXED STOCK SALT. Every breeder should have a supply of this salt.

25-lb. sack, \$1.25; 100 lbs., \$4.00.

LEE'S CARBOLIC SHEEP DIP. For lice, ticks, mange, itch or scab, on cattle, sheep and hogs.

Qt., 50c.; ½-gal., 75c.; gal., \$1.25; 5 gals., \$4.50.

LEE'S PEERLESS GOPHER KILLER. For killing gophers, squirrels, etc. Sure death.

Quart can, 75c.

LEE'S PEERLESS BUG KILLER.

12-oz. bottle, 25c.

LEE'S HICKORY SMOKE EXTRACT. Hickory Smoke Extract applied to meat preserves it indefinitely, imparting the delicious flavor that is only otherwise obtained by smoking with green hickory. 12 oz. bottle, 35c.; 32 oz. bottle, 75c.

LEE'S FLY-CURO. We sell thousands of cans of this fly spray every season, and it gives good satisfaction.

Qt., 50c.; ½-gal., 75c.; gal., \$1.25.

GERMOZONE

The cure that cures. Its action is marvelous. Never fails to cure Bowel Complaint, Cholera, Eoup, Colds, etc. Whatever malady threatens, Germozone will cure or prevent. Germozone's greatest value is in prevention of sickness. If you wait until a hen is sick, you lose several weeks of egg production, even though you cure her. Germozone prevents sickness by regulating the bowels, and should be given regularly twice a week in the drinking water to chickens, young or old, sick or well.

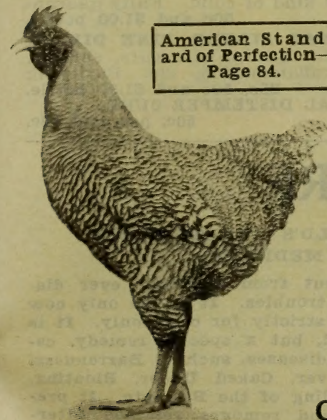
PRICES.

Lee's Germozone. Liquid. 12-oz. bottle, 50c.

Lee's Germozone. Tablets. Pkg., postpaid, 50c.

Send for the Lee Book. It's Free.

American Standard of Perfection—Page 84.



THOROUGHbred POULTRY AND EGGS FOR SETTING.

We make a specialty of supplying thoroughbred poultry and eggs, having expert poultrymen in our employ who are capable, experienced judges, and you can feel every confidence in entrusting your orders to us, as we are in a position to give you best values, and whether you are an expert or an amateur, you can feel that poultry or eggs purchased from us are all or more than is claimed for them.

Prices quoted on request.

NOTE.—Regular customers are requested to send list of their stock and eggs they can supply.

COLLAPSIBLE POULTRY COOP

These are the neatest, lightest and strongest coops for shipping poultry in that we have ever seen. They are well made, and will last for years. Easily cleaned and stored. They are up-to-date coops, and make a good impression. They are a mighty good investment for any poultry-raiser. Coops are made in three sizes. All treated with oil. Order a sample coop.

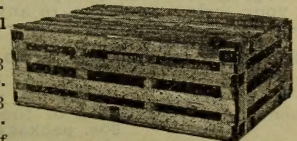
No. 1 Coop. For 12 to 24 chickens, size 36x24x12, weight 23 pounds. Price, \$1.80.

No. 2 Coop. For 24 to 36 chickens, size 48x30x12, weight 33 pounds. This is the favorite size. Price, \$1.95.

No. 3 Coop. For turkeys and geese; will carry 250 pounds of weight; size 48x30x16. Price, \$2.00.



COOP COLLAPSED.



COOP SET UP.

INTERNATIONAL STOCK AND POULTRY FOODS, REMEDIES, ETC.

WHEN YOU ORDER GOODS BY FREIGHT ADD A PACKAGE OR TWO OF THESE REMEDIES; THE FREIGHT CHARGES WILL BE NO MORE, AND YOU WILL HAVE THEM ON HAND WHEN NEEDED. FULL DIRECTIONS ON EACH PACKAGE.

REMEMBER, NOT POSTPAID AT FOLLOWING PRICES, UNLESS SO STATED.



WE ARE
PACIFIC COAST
AGENTS



Every package of "INTERNATIONAL" is guaranteed to fulfill every claim made for it, or your money back for the asking. We sell "INTERNATIONAL" on its merits. You are the judge. Full directions on each package.

FOR POULTRY

INTERNATIONAL POULTRY FOOD. Increases egg production; makes chickens grow and keeps them in perfect health.

Pkgs., 25c., 50c. and \$1.00; 25-lb. pail, \$3.50.

INTERNATIONAL LOUSE KILLER. Will quickly kill, lice, fleas, etc., and not hurt the poultry. A large package for little money and fully guaranteed. Pkg., 25c; postpaid, 45c.

INTERNATIONAL LICE PAINT. One of the best liquid lice killers on the market.

35c. and 60c. cans.

INTERNATIONAL SCALY LEG OINTMENT. Box, 25c., postpaid.

INTERNATIONAL CRESUL. A strong and powerful germicide and disinfectant. A few drops in the drinking water from time to time will keep the birds in a healthy condition.

Per 1/2 pint can, 25c.

INTERNATIONAL ASEPTIN. A sure cure for bumble foot, open wounds, etc.

Per box, 25c., postpaid.

INTERNATIONAL ROUP CURE. A guaranteed cure.

Per box, 50c., postpaid.

INTERNATIONAL RHEUMATISM OIL. A very penetrating and excellent preparation, especially fitted for the feathered tribe.

Per bottle, 25c.

INTERNATIONAL SUDAL. To use with above remedy in chronic cases.

Per box, 25c., postpaid.

INTERNATIONAL CHOLERA CURE. For the prevention and cure of cholera in fowls it has no superior.

Per bottle, 25c.

INTERNATIONAL WORM FILLS.

Per box, 50c., postpaid.

INTERNATIONAL BOWEL TROUBLE REMEDY. For poultry.

Per box, 50c., postpaid.

FOR STOCK

INTERNATIONAL STOCK FOOD. Makes and keeps cattle vigorous, strong and healthy. Three feeds for 1c. Every pound sold on a positive guarantee to show results, or money refunded. The best stock food on the market today.

Pkgs., 25c, postpaid, 50c; 50c, postpaid, \$1.00; 7 lb. Pkg., \$1.00; 25-lb. pail, \$3.50.

INTERNATIONAL HEAVE CURE. A guaranteed cure for heaves, asthma, broken wind, coughs, etc.

Pkg., 50c; postpaid, 70c.

INTERNATIONAL GALL CURE. Your money refunded if it fails to cure galls, sore shoulders, necks or backs, cut or bruised heels, etc.

Box, 25c; postpaid 35c; 50c; postpaid, 60c.

INTERNATIONAL WORM POWDER. Safe to use; quick and sure in results.

Pkg., 50c; postpaid, 70c.

INTERNATIONAL PHENO-CHLORO. A reliable and low-priced disinfectant, antiseptic and germicide for use anywhere. A 50c. can makes 75 gallons ready for use.

25c., 50c. and \$1.00 cans.

INTERNATIONAL HARNESS DRESSING. A combined soap and oil dressing. Makes old harness look like new. Does not rub or wash off.

Price, 25c.; postpaid, 40c.; large can, 50c.

INTERNATIONAL HONEY TAR FOOT REMEDY. The best thing on the market for sore or tender feet, nail wounds, thrush, corns, quarter-cracks, and contracted feet.

50c. and \$1.00 cans.

INTERNATIONAL COLIC CURE. A quick, sure cure for any kind of colic. Fully guaranteed.

50c and \$1.00 bottle.

INTERNATIONAL SILVER PINE OIL. A wonderful cure for barbed-wire cuts, sprains, kicks, bruises, inflammation, etc. Purifying and soothing.

25c, 50c and \$1.00 bottle.

INTERNATIONAL DISTEMPER CURE.

50c; postpaid, 70c.

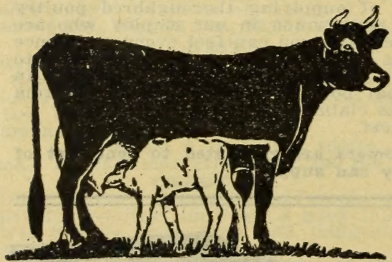
KOW KURE

THE WORLD'S GREATEST COW
MEDICINE.

This is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy, especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of the Bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. Makes poor cows good; good cows better, and makes more money for cow owners. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It's the dairyman's gold mine, and a sure profit-payer.

HORSE COMFORT. For wire cuts and all flesh wounds. 25c and 50c. bottles.

AMERICAN HORSE TONIC. A general improver for horses. 25c. boxes; postpaid, 35c.



Send for copy of new books, "The Cost of a Lost Cow" and "More Dairy Dollars." They will tell you how to practically realize a profit of over \$50 per year on each of your cows. Sent free to any address.

KOW-KURE.

50c, postpaid, 75c; and \$1.00, cans; postpaid, \$1.60.

BAG BALM. A soothing, penetrating ointment for all affections of the bag.

50c. packages; postpaid, 65c.

GRANGE GARGET CURE. An unsurpassed and positive cure. 50c. cans; postpaid, 75c.

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DISTANCES RECOMMENDED FOR PLANTING TREES, ETC.

In planting trees, the greater distance should be given in rich soils and to the larger growing varieties.

	Ft. each way		Ft. each way
Apple Trees	25 to 40	Walnut Trees	30 to 40
Pear Trees	20 to 30	Almond Trees	15 to 20
Quince Trees	15 to 20	Currants	3x5
Peach Trees	15 to 25	Gooseberries	3x5
Plum and Prune Trees	15 to 20	Strawberries, in hills	18 in. x 36 in.
Cherry Trees	25 to 40	Matted rows	12 in. x 36 in.

VALUABLE PREMIUMS FREE!

Note.—If you wish to take advantage of these premium offers, be sure to request same when sending in your orders; otherwise they cannot be sent.

Aside from furnishing you with the best seeds that grow and the best stocks obtainable, we have made a practice during the past few years of offering free premiums with certain sized orders. We believe these have been fully appreciated by our customers, so are offering them again this year.

THESE PREMIUMS ARE GIVEN ONLY WHEN CASH ACCOMPANIES ORDER AND AT PRICES PRINTED IN THIS CATALOG.

With a \$2.50 Order Your choice of Vegetable or Flower Seeds in packets or ounces to the value of 25c., or any 25c. Lily, Dahlia, Canna or Gladioli Bulb.

With a \$5.00 Order Double the \$2.50 Premium, or any 25c. book, or 25c. to apply on any book we list, or your choice of any 25c. package of Stock or Poultry Food or Remedy, or any of our Seed Potatoes, or Flowering Bulbs to the value of 50c.

With a \$10 Order You may double the premiums on the \$5.00 order or choose any 50c. book in our list.

With a \$25 Order Three times the premium on the \$10.00 order or \$1.50 to apply on any additional item selected.

Note.—The amount allowed on premiums cannot be deducted from the price, but is allowed over the amount of the order.

IF YOU SELECT PREMIUMS LISTED ABOVE, YOU ARE NOT ENTITLED TO OUR SPECIAL DISCOUNT OFFER BELOW ON SEEDS IN PACKETS AND OUNCES.

Special Rates on Seeds in Packets or Ounces

By mail, postage paid by us, to any postoffice in the United States.

25 cents WORTH OF SEEDS FREE with every \$1.00 order for Seeds in Packets and ounces. Remember, in packets and ounces only. \$1.25 for \$1.00, \$2.50 for \$2.00, and so on.

This discount does not apply on quantities over one ounce, or where any other premium is taken. If your order is not large enough to get the premiums wanted, get your neighbor to send with you—the premiums are worth the trouble.

We pay one cent (in seeds) per name for good addresses. See back of Order Sheet.

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"DIAMOND
QUALITY"

BULBS
ROSES
FRUIT
and
ornamental
TREES



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Peony Flowered
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A
Corner
of our
Dahlia Field

