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1930

BUTZER'S SEEDS

*The kind that grow
You can't keep them
in the ground*

J.J. BUTZER

186 FIRST ST.

PORTLAND, ORE.

TO MY FRIENDS

In carrying on this seed business I always feel that I would like to know all of my friends personally, and wish it were possible for me to meet you. This seed business, as you know, has been built up on your confidence. Our business has reached such large proportions and Butzer's Seeds are planted in so many sections in the Northwest, that it is physically impossible for me, personally, to call and have a talk with each one of you.

Therefore, I am doing the next best thing, I am sending you this catalog, to represent me. This is my salesman, and I want you to know that all orders you may send me will have my best attention, as it is my intention to serve you in the best possible way and to supply you with seeds, etc., of the highest quality, for your success is also my success.

This catalog is the only agent we employ. We send out no seeds to be sold again on commission, but deal directly with the planters, devoting all of our resources to supplying them with the best and finest stocks obtainable. The substantial increase our business receives each year assures us that our efforts are not in vain and that our seeds are meeting the requirements of the most particular planters.

BUSINESS INSTRUCTIONS

What We Do and What You Should Do

EARLY ORDERING—It will be helpful to our customers, as well as ourselves, to have orders placed early. Our policy is to make prompt shipments, but this is impossible as the busy season reaches its height. If your order is received late we may be sold out, as in case of shortage of crops, with no more stock obtainable. Send your order early; we will do the rest.

SEND CASH WITH ORDER—Remittances may be made by Money Order, Draft, Currency, or Stamps. We will accept any reasonable amount of stamps the same as cash, but we prefer to have 5, 10, 15 and 25 cent stamps. Be sure you register your letters if they contain cash. Money orders are the most economical and practical means of remitting.

CORRESPONDENCE—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a

favor, that all questions be stated clearly and briefly, and not on order sheets.

HOW TO ORDER—Fill out the order sheet enclosed herewith, writing your name and address very plainly. If you have lost our order blank any kind of paper will do. Just be sure you write your name and address plainly. We'll take care of the order.

PREPAY STATIONS—When you send in orders to go by freight or express, be sure you send extra money to pay the transportation charges, if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

C. O. D. SHIPMENTS—Shipping C. O. D. only adds to the cost, as the buyer pays the expense of collection. If you prefer shipment C. O. D. remit with your order one-half the amount of the bill. Under no circumstances will we ship plants and other perishable goods C. O. D.

ALL PRICES are subject to price fluctuation and to change without notice. For this reason we ask you to write for quantity price. On vegetable and flower seeds the price is usually fixed for the season and rarely is it necessary to change from the catalog, and the prices will be consistent with the market. You will be treated fairly.

MARKET-GARDENERS are requested to send us a list of the vegetable seeds they intend purchasing. We shall be glad to submit low prices on them. Market-gardeners who purchase seed in large quantities are entitled to a reduction in accordance with the quantity bought. Write us fully and we shall be very glad to reply and give prices.

Our Guarantee On Nursery Stock

All goods are guaranteed to reach you in good condition; mistakes, if made, will be promptly rectified. Accept shipment, examine and count on receipt and notify us at once should there be any errors, and the carrier as well, if any damaged stock. This guarantee not good unless above requirements are complied with. We do not guarantee continued growth. Remember, a tree, shrub or plant is a living organism, as much as a cow, horse or man. It breathes, drinks and feeds, and is liable to attacks of disease and insects. At prices we sell, it is impossible for us to guarantee growth or to be responsible for stock after delivery to our customers in good condition.

GUARANTEE

Seeds of the best quality are apt to fail through improper treatment by sowing the seed too deep or too shallow, in too wet or too dry soil. They differ greatly as to the temperature required for germination. Some will germinate rapidly at a certain temperature, while others, if sown under the same conditions, are apt to decay, and for all these reasons it is impractical to guarantee seeds. I give no warranty, expressed 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.

J. J. BUTZER.

Notice in Reference to Varieties

Modern varieties of vegetables are in a great many cases selections and highly improved strains of older and inferior types. These improved strains are stable to a certain degree only, and considerable care is entailed, in the growing of high-grade seeds, to keep these types up to present standard and to improve on them.

We would point out, therefore, that under conditions of soil and season not altogether favorable, varieties may vary from the descriptions in these pages, especially as regards earliness or lateness of season, type and keeping quality.

The descriptions are intended to serve as a guide only, in the selection of sorts likely to prove most suitable for purposes required.

GARDEN COLLECTION No. 1

The amateur gardener, not familiar with the different kinds, will find this collection a simple solution of the problem of selection. While the prices of collections are much lower than the regular list, we use only seeds of the highest quality, but being enabled to put them up during leisure time, the saving goes to the buyer. No changes will be made in the assortment. Orders can be filled immediately on receipt.

**No. 1 Collection Contains One Package Each of the
Following Delivered to You by Mail Postpaid for 50c**

- 1 Pkt. Beet—Detroit Dark Red
- 1 “ Beans—Burpee's Stringless
- 1 “ Carrot—Chantney
- 1 “ Cucumber—Long Green
- 1 “ Lettuce—New York
- 1 “ Peas—Blue Bantam
- 1 “ Nasturtium—Tall Mixed
- 1 “ Radish—Crimson Giant
- 1 “ Radish—Icicle
- 1 “ Swiss Chard—Lucullus

- 1 Pkt. Turnip—Purple Top White Globe
- 1 “ Spinach—King of Denmark
- 1 “ Parsley—Emerald
- 1 “ Sweet Peas—Spencer Mixed
- 1 “ Aster—Rose City Mixed

**15 Full Size Packages
all for
50c, Postpaid**

ASPARAGUS

No vegetable is more healthful or more palatable than the tender asparagus that appears on the table very early in the spring.

Every home garden should have a bed about ten by twenty feet, planting about one hundred roots. This would furnish enough tips from day to day to supply the family table.

Set the rows two feet apart instead of four as for field culture, and one foot apart in the row.

Culture

Drill the seed thinly in rows fifteen inches apart during March or April. Thin out to two inches apart in order to have strong plants.

Exercise great care in preparing a field because it will last many years.

Transplant during February setting the roots two feet apart, in furrows six feet apart. Carefully spread out to avoid matting. The furrows should be ten or twelve inches deep and run North and South in order to get the sun on both sides of the rows. Cover the roots about three inches and as the plant grows throw the soil toward the plant. Each year when the berries are red, cut the plants close to the ground and burn, then spray the entire field with sulphur, in order to destroy any germs of mildew, red spider or rust that may be there. Keep a mulch over the row with a harrow, but cultivate more deeply between the rows. Use stable manure liberally and hill up a little higher each year. Irrigate freely during the growing period. Three pounds of seed is sufficient to plant an acre.

Use one year old roots; do not cut them back. When planting see that the roots are well spread out so that the soil will touch every part. If this is not done the plant cannot thrive.

Washington Asparagus

The tips are tight and firm and do not open out or begin to branch until well out of the ground, making the finest kind of green Asparagus both for home use and market. It is nearer to being rust-proof than any other variety, and the large, luscious stocks will be greatly appreciated. In appearance, when bunched for market, this Asparagus cannot be excelled, and will be selected by discriminating buyers in place of all others, even at a much higher price. If you already have an Asparagus bed it will pay you to plant some of this variety and note the great improvement over the kind you are now growing.

Per pkt. 15c; oz. 45c; ¼ lb. \$1.25; lb. \$4.50

Palmetto

One of the most popular varieties grown and especially good for shipping and canning. Shoots are light green, slightly tinted pink.

Per pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c

Asparagus Roots

(WASHINGTON AND PALMETTO)

ONE-YEAR-OLD PLANTS—Postpaid 30c doz.—50c per 50—\$1.00 per 100 by express or freight—\$7.00 per 1,000

Asparagus Knife

The best knife for cutting Asparagus. Each 50c, postpaid.

ARTICHOKE

Artichoke, Ger.

Artichaut, Fr.

Alcachofa, Sp.

Large Green Globe—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Per pkt. 10c, oz. \$1.00

BEANS DWARF OR BUSH GREEN PODDED

Culture—No crop responds more readily to good soil and cultivation than beans. A light, rich, well-drained loam which was manured for the previous crop is desirable. If too rank manure is used it is apt to make the plant run too much to vine. Beans are extremely sensitive to both cold and wet, and it is useless to plant them before the ground has become dry and warm. The largest returns will result from planting in drills from two to three feet apart and leaving the plants two to six inches apart in the row. Up to the time of blossoming they should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause the blossoms to blast and so cut off the crop. The cultivation of beans should always be very shallow and it is useless to expect a crop from a field so poorly prepared.

Varieties should be selected so as to give a succession both of string and green shelled beans. The wax podded varieties will degenerate into a mixture of green wax podded plants unless there is constant attention given to the removing of any green podded plants which may appear in the seed crop, and the constant selection of plants of the highest type for stock seed. Hence it is especially important to use seed from reliable sources only.

ADVICE

Watch for the slightest indication of mildew. When it appears spray with Sulphur. This will not only arrest any further advance of mildew, but it will fertilize the soil and destroy any germs of Fungi that may be there.

BURPEE'S STRINGLESS GREEN POD

The Best Green Podded Bush Bean for the Northwest, should be in every garden

This famous bean is absolutely unequalled! It combines unusual hardness, extreme earliness, and wonderful productiveness with pods of handsome appearance and finest quality. Extra early plantings may be made to produce the earliest crop, and even with later plantings Burpee's "Stringless" is always the quickest to produce pods. By repeated plantings pods may be had in constant succession from Spring until cut off by heavy frosts in the Fall. Combined with the extra hardness and early maturity, the pods are the finest in quality, of a rich green, very round and straight, five inches long, solidly meaty and broad—deeply saddle-backed, caused by the rounded swell of the fleshy sides. The pods are tender, brittle, and of finest flavor, always entirely stringless, even when fully matured. In a word, all planters now agree that Burpee's Stringless is absolutely unequalled.

Per pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

EXTRA EARLY RED VALENTINE

Next to Burpee's Stringless, this is the most popular of all green-podded bush beans. In this improved strain the pods are very fleshy, round and saddle-backed, with only slight strings. Bushes grow uniformly about fifteen inches in height.

Per pkt. 10c, lb. 30c, postpaid

CANADIAN WONDER

This splendid Bush Bean is the largest, most prolific of the green-podded sorts, and is entirely stringless in its early development. Come a little later than the new Stringless Green Pod, but continues in bearing throughout the season, and is excellent in shelled green.

Per pkt. 10c, lb. 30c, postpaid

IMPROVED REFUGEE, or 1000 to 1

Our strain is extra fine. True bush growth, fifteen inches in height, branching freely. The pods are nearly round, pale green, five inches long, tapering to a slender point; quite solidly fleshy, brittle, and mild in flavor, but with slight strings. Rather later than the other green-podded sorts, but extremely prolific. Very popular with canners on account of the handsome appearance of the pods when picked while quite young.

Per pkt. 10c, lb. 30c, postpaid

EARLY STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality; medium early. Great improvement over Refugee or 1,000 to 1. Excellent home or market variety as a "snap." Unsurpassed for picking or canning. Second early.

Per pkt. 10c, lb. 30c, postpaid

DWARF HORTICULTURAL

One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick curved, with splashes of bright red on a yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff splashed with deep red.

Large pkt. 10c, lb. 30c, postpaid

BROAD WINDSOR, or ENGLISH BROAD

This is entirely distinct from the common or French bean. The large, coarse pods are borne on stout plants which are coarser, more erect and less branched than the French.

Per pkt. 10c, lb. 30c, postpaid

CASTOR BEAN

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

Per pkt. 10c, postpaid

You can't go on growing crops year in and year out, unless you put back into the soil the plant food elements removed by each season's crops.

BURPEE'S
STRINGLESS

BEANS DWARF OR BUSH, YELLOW OR WAX PODDED

BRITTLE WAX

Brittle Wax is most attractive, of superb quality, and conceded the "Best of All." The bushes are remarkably hardy and very prolific. The pods are handsome, round, extremely fleshy, and always stringless and tender. They measure about 7 inches in length and are slightly curved. Burpee's Brittle Wax has made a record everywhere with its superb quality, extreme earliness, and great productiveness. Pkt. 15c; lb. 35c, postpaid

DAVIS KIDNEY WAX

The handsomest of all the early Wax Beans. The pods are long (seven inches) straight, very uniform and clear waxy white. The vines are vigorous, very prolific and fairly rust resistant. We are constantly improving the variety in this respect, using only the seed from unaffected vines. The dry beans are kidney-shaped, clear white and excellent to use as a Navy Bean for baking. For snap beans in the home garden they should be used while young, before they become stringy. The best market garden wax bean.

Per pkt. 10c, lb. 25c, 5 lbs., \$1.00, postpaid

PENCIL POD BLACK WAX

One of the best round pod wax beans, both for home use and market. Bushy growth, about fifteen inches high, heavy foliage. Pods 6 to 7 inches long, round as a pencil, clear yellow, very brittle and stringless, rich mild flavor. An early sure cropper of the finest quality. Pkt. 10c; lb. 30c, postpaid

PROLIFIC BLACK WAX

The earliest wax variety. Pods clear, light yellow, round, fleshy, tender, stringless and remain in fit condition for some time. A heavy yielder that we can recommend. Large pkt. 10c, lb. 30c, postpaid

REFUGEE WAX

This is a favorite because of its hardy growth and enormous yield of tender, round stringless pods of excellent flavor. Plant from April until September. Per pkt. 10c, lb. 30c, postpaid

IMPROVED GOLDEN WAX

Pods rather flat, but of good quality; four inches in length, half an inch broad, of light golden yellow; quite brittle, with only slight strings when young. Plants stiffly erect, bearing a large crop of fine pods held well above the soil. Per pkt. 10c, lb. 30c, postpaid

BUSH LIMA BEANS

Culture—Select land that is especially warm, rich and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Make the rows 2 feet apart and give to each plant 6 inches space in the row. A top-dressing of poultry manure, ashes, or some good fertilizer or compost around the plants will be of much benefit in hastening maturity and increasing the yield.

BURPEE'S BUSH LIMA

Comes absolutely true from seed. The bushes grow eighteen to twenty inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush from two to three feet in diameter. It is an immense yielder, the handsome large pods being well filled with very large beans, identical in size and luscious flavor with the well-known large Pole Limas. Per pkt. 10c; lb. 30c, postpaid

BURPEE-IMPROVED BUSH LIMA

This is the finest Bush Lima that has ever been introduced. The bush is sturdy in habit and twenty to twenty-four inches high, with large leaves. It bears its beans on long spikes in very prolific clusters well out from the plant. There are from four to seven pods in each cluster and often as many as eleven. Each pod contains three, four, or five beans and there are more pods containing five than there are containing three beans, so that there is an improvement of from one to two beans in each pod, and this, taken with the great number of pods borne, makes the yield enormous. In quality this bean ranks with the very best and the beans are of large size. In earliness it comes between Henderson's and Burpee's Bush, and is about a week earlier than the latter variety. This bean is bound to be the greatest, most popular Bush Lima—a continuous bearer.

Per pkt. 15c; lb. 35c, postpaid

FORDHOOK BUSH LIMA BEAN

The only stiffly erect bush form of the popular "Potato" Lima! Both pods and beans are twice the size of Dreer's Bush Lima and more than half again as large as the Challenger Pole Lima. Is fully a third heavier cropper and therefore is bound to entirely displace the Kumerle (Dreer's or Thorburn's) Bush Lima. In season it is from four to six days earlier. Per pkt. 15c; lb. 35c, postpaid

POLE LIMA BEANS

OREGON POLE LIMA

Grows to an average 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 beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. Gather any time after full maturity.

Oregon Pole Lima can be planted in any garden soil as early as April or late as July. Give the same care and culture as other Beans, and are ready to use when the pods are filled and first begin to ripen. It is not necessary that they should dry on the vines, except for seed. They are at their best when the full green pods begin to turn yellow. Per pkt. 10c; lb. 30c, postpaid

BEANS—Pole or Running

Culture—Pole Beans are even more sensitive to cold and wet as well as to droughts and hot winds than the dwarf varieties, but are of superior quality and productiveness. After settled warm weather set poles four to eight feet long and slanting slightly toward the north, in rows four feet apart and extending north and south, the poles being three feet apart in the row. Set in this way, the vines climb better and the pods are straighter and more easily seen. Around each stake plant five to eight beans two inches deep, and when well started thin to four plants. It is a natural habit of all vines to climb around a pole always in one direction, and they will not do well if an attempt is made to train them to run in the opposite direction. Another plan is to plant in rows thickly enough so that there will be one plant to eight or ten inches. Set pods five feet high firmly at each end of the rows and drive stakes made of 2x2 lumber at intervals of about sixteen feet along the rows. Stretch a wire, size No. 10 or 12, between the posts along each row, and fasten it to the tops of the stakes with wire staples; run a light wire or twine along the bottom about six inches from the ground, fastening likewise to the posts and stakes. Between these two horizontal wires stretch a wire or twine perpendicularly wherever there is a plant; the vines will run up these until they reach the top wire, when they will care for themselves. Another way is to omit the bottom wire and stick small stake two to six inches in the soil and fasten to top wire.

GREEN PODDED VARIETIES

Kentucky Wonder is the best Pole Bean for the West

Often sold as Asparagus Beans

Old Homestead, or "Kentucky Wonder"—See natural size of pod, engraved from a photograph. The pods seven to nine inches long, are so fleshy that they are greater in width than in breadth, being deeply creased or "saddle-backed". They are solidly meaty, stringless when young, and of finest quality. If pods are gathered as they mature, the vines will continue to bear to the end of the season.

Per pkt. 10c; lb. 30c, postpaid

Chinese Yard-Long (Pole Beans)—Brown seed, an attractive and curious variety. The pods often grow to be nearly a yard long. The whole pod and beans are crisp, tender and with a delicious asparagus flavor, rivaling almost any of the little podded beans when cooked.

Pkt. 10c

Burger's Green-Pod Stringless—This is earlier than Old Homestead and covers a longer season of productiveness. The pods, borne in clusters, average six to eight inches in length, are uniformly straight, of a rich dark green, and so meaty as to be really "saddle-backed." The pods are as entirely stringless as the popular Burpee's Stringless Green-Pod Bush Bean; they are equally tender and of similar sweet, mild flavor. The dry beans are of a pearly whiteness.

Per pkt. 15c; lb. 35c, postpaid

Horticultural, Cranberry or Wren's Egg—A popular old variety for either snapshorts or dry shell beans, especially adapted for short seasons and cool locations.

Per pkt. 10c; lb. 30c, postpaid

Oregon Giant Greenpod (Dickenson's Yount)—The large fleshy pods 10 to 12 inches in length are free from all stringiness and are tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning.

Per pkt. 15c; lb. 50c

"Lazy Wife's"—The pods, of medium dark green color, are produced in great abundance, and measure from four and a half to six inches in length. They are broad and thick; fleshy and entirely stringless. The pods retain their rich, tender, and stringless qualities until nearly ripe, and at all stages are peculiarly luscious. Each pod contains from six to eight round, white beans, which make excellent winter shell beans.

Per pkt. 10c; lb. 30c, postpaid

Scarlet Runner—In northern locations where the summers are cool and short, this takes the place of the Large Lima Beans. Plants are of strong quick growth, bearing large sprays of bright scarlet pea-like flowers. When fully ripened, the dry beans are of bright scarlet, heavily blotched with purple.

Per pkt. 10c; lb. 30c, postpaid

White Creaseback—A popular early green podded pole bean for snapshorts; of rapid growth and very productive. Pods grow in clusters and are from five to six inches in length, perfectly round, being deeply creased or "saddle-backed." They are solidly fleshy, entirely stringless, and of fine quality. The dry seed is pure white and excellent for winter use.

Per pkt. 10c; lb. 30c, postpaid

White Dutch Case Knife—Bears large flat pods early in the season. Being white-seeded, it is excellent to grow dry shell beans for winter.

Per pkt. 10c; lb. 30c, postpaid

WAX POD VARIETIES

Kentucky Wonder Wax Bean—In saying that this bean is even more prolific than its green podded namesake, we do not overstep the bounds of truth. It commences to bear when scarcely higher than the average bush variety, and keeps on producing until killed by frost. In some comparatively frostless districts it has continued in bearing from June to December. It is a rampant grower, one vine filling a pole with a mass of vines densely loaded with luscious beans. They are solidly meaty, entirely stringless, and when cooked, deliciously rich and buttery. The seed is brown.

Price 10c per pkt; 35c per lb., postpaid

KENTUCKY
WONDER

STIMUGERM
LEGUME INOCULATION

A special garden size for peas, beans and sweet peas will insure you large, luscious peas and beans, and abundant sweet pea blossoms for gorgeous coloring. Price 25c. See pages 81 and 95.

GARDEN BEETS

Culture—The best results are obtained on a deep rich sandy loam. If wanted very early, sow such sorts as Crosby's Egyptian or Detroit Dark red in hotbeds and transplant, cutting off the outer leaves. For general crop, sow in freshly prepared soil as soon as the ground will permit, in rows eighteen inches apart covering about an inch deep and pressing the soil firmly over the seed. When the plants are well established thin out to four inches apart in the row. For winter use the turnip varieties may be sown in June, so as to mature late in the season; the roots are stored in a cellar and covered with sand or sandy soil to prevent wilting; or they may be kept outdoors in pits such as are used for apples and potatoes. One or two ounces, or single packets of two or three sorts will give a good supply for a large family.

Detroit Dark Red—Receives nothing but praise everywhere—It is rather astounding how, despite the many new beets introduced from time to time, that the old Reliable Detroit gains in favor instead of waning.

The Detroit is one of the best of the dark red turnip beets for main crop. See illustration. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c, postpaid.

Bastain's Half-Long Blood—The roots, are shaped like an olive, of large size and have dark red flesh which retains its tenderness until late in the season.

Per pkt. 5c; oz. 15c, $\frac{1}{4}$ lb. 50c, postpaid
Extra Early Egyptian—Grows extra quickly, producing flat smooth turnip roots averaging two inches in diameter. Per pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c, postpaid.

Crosby's Egyptian—Roots are smooth and round in form. They are of finer quality, combined with the same extra maturity. Per pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 30c, per lb. \$1.00, postpaid.

Long Smooth Blood Red—Roots long and slender, penetrating the soil deeply, but seldom growing more than two inches in diameter. Rather late in maturing, but are excellent keepers when stored for winter use.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid

DETROIT DARK RED—THE BEET FOR THE NORTHWEST

Mangel Wurzel or Stock Beets

Danish Sludstrup—The Danish Government encourages the growing of root crops by offering certificates of merit to growers who select and produce sorts which are of distinctive value. Sludstrup is considered the best of all Mangels, having been awarded first-class certificate. In color it is reddish yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 50c

Giant Half-Sugar—This magnificent Sugar Beet, while giving nearly as large a yield of easily grown and harvested roots as a crop of Mangels, supplies a food of very much higher nutritive value, the roots for feeding purposes being really more valuable, pound for pound, than those of the very best strains of Sugar Beet, and the yield under equally favorable conditions is more than double. The roots grow partly out of the ground and because of this and their shape the crop can be harvested and stored at less expense than any other root crop. We are certain that every one who plants this variety and grows it with care will be much pleased. Every farmer should try it.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 50c, postpaid

Golden Tankard—A smooth yellow-fleshed mangel, the roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root. It grows largely above the soil and is easily harvested. It yields an enormous bulk on good land, and can be grown closely in rows. This is decidedly the best of all these four mangels for stock feeding.

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

Golden Giant, or Yellow Leviathan—Fine large roots, growing half above the surface. Skin a rich golden yellow; flesh white, firm and sweet. A fine root, easily lifted, producing enormous crops, and is an excellent keeper. Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 50c, postpaid

Mammoth Long Red—The largest of all the Mangels and the heaviest cropper. Skin is red; flesh white, zoned with red. This variety produces a larger amount of good feed than any other Beet, and is recommended as superior to all others.

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

Danish Sludstrup

"LUCULLUS,"—
THE NEW
SWISS CHARD.

SWISS CHARD OR "SPINACH BEETS"

Lucullus—The plants grow to a height of two to two and one-half feet. The stalks are as thick and broad as those of rhubarb, being one and one-half inches broad, heavily ribbed and from ten to twelve inches long below the leaf. These stalks are delicious when cooked and served in the same manner as asparagus.

In the old type of Swiss Chard the leaf portion is smooth, broad and rounded at the upper end; in the new Lucullus the leaves are larger and sharply pointed at the top, while the texture is heavily crumpled or "savoyed", more crisply tender and of finer flavor. The leafy portion of the foliage is cooked and served in the same manner as spinach. The leaves and stalks served as separate vegetables afford two distinct dishes from the same plant at one time.

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

Large-Ribbed White—This variety does not make edible roots like the regular garden beets, but is grown for the broad white leaf-stalks, which are bunched and cooked in the same manner as asparagus, and make a delicious summer vegetable. The young leaves may be gathered also and cooked like spinach.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c

CHIVES—Schnittlauch

Chives are perfectly hardy perennial plants of the onion type, and are grown exclusively for their small leaves, which are produced freely very early in the Spring, for giving a mild onion flavor to various dishes. They are used especially in flavoring the small German sausages. When planted in small clumps in any common garden soil, they will grow rapidly and in time increase so as to render division necessary. The tops appear early in the Spring, and can be shorn off close to the ground as needed. If not allowed to flower, they will produce much longer.

Per bunch, postpaid, 15c

BROCCOLI

Should be treated the same as cauliflower, which it resembles. In fact, it is practically a cauliflower, but grows larger and taller and is hardier and easier to grow. It requires two months more time to mature, which it does best in cool weather. Plant and cultivate the same as cabbage or kale and give plenty of water.

St. Valentine—The finest of all Broccoli. Imported from England. This grand new strain introduced from England is a sure header of immense size and finest quality, and is ready for market in February. The large, solid, handsome, white heads remain in good condition longer than other varieties.

Per pkt. 10c; oz. \$1.00

Large White French—A valuable variety with large, white heads, firm and of good flavor. Pkt. 5c; oz. 50c

CORN SALAD (Feldsalat)

Veticcost, or Lamb's Lettuce—A delicious salad. The best variety cultivated. The proper time for sowing is in the Fall, but sown early in Spring, in rows nine to twelve inches apart, it is fit for use in from six to eight weeks. Cover with hay or straw to protect through the Winter. One ounce of seed to 15 square feet.

Per pkt. 5c; oz. 15c, postpaid

BRUSSELS SPROUTS

The plants are very hardy and grow from 2 to 3 feet high, bearing a large mass of leaves at the top. The sides of the main stem are covered with three or four dozen small cabbage heads, which are broken off and cooked the same as cabbage. The sprouts mature in succession. Sow early so as to have well-grown plants by fall. Cultivate the same as for cabbage.

Burpee's Danish-Prize—A very fine strain. The plants are of strong robust growth. The stalks are large, thick and close-joined, so that the sprouts set thickly on the stalk. The sprouts develop for nearly the entire height of the stalk about the same time—consequently a very large crop can be gathered. Even the sprouts formed at the base of the stalk are tightly folded; they are quite as fine and solid as those higher up.

Per pkt. 10c; $\frac{1}{2}$ oz. 20c

Long Island Improved—The finest strain of "Sprouts" grown. We offer the choicest Long Island grown seed.

Per pkt. 10c; oz. 35c

Perfection—The plants grow about two feet in height and the stems are thickly set with the sprouts which grow one or two inches in diameter.

Per pkt. 5c; oz. 25c, postpaid

Tobacco Dust will protect your vegetables from leaf-eating insects

CABBAGE

Culture—The requisites for complete success are: First, good seed; in this crop the quality of the seed used is of the greatest importance; no satisfactory results can possibly be obtained when poor seed is planted. Second, rich, well prepared ground. A heavy, moist and rich loam is most suitable. Third, frequent and thorough cultivation. The ground should be highly manured and worked deep. Cabbage is grown all over the country and specific directions regarding the time and methods of planting applicable to all localities cannot be given. In general, north of the 40th parallel the early sorts should be sown very early in hotbeds, hardened off by gradually exposing them to the night air and transplanted as early as the ground is in good condition, setting eighteen to thirty-six inches apart, according to size of variety. South of the 40th parallel, sow about the middle of September, or later, according to latitude, transplanting into cold frames if necessary to keep through winter and setting in open ground as early as possible in the spring.

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. If the weather and soil is dry, the late sowing should be shaded and watered in order to hasten germination, but it is important that the plants should not be shaded or crowded in the seed bed, or they will run up weak and slender and will not endure transplanting well.

First Early Sorts

Extra Early Express—The earliest heading cabbage in cultivation. It produces pointed hard heads of good size, which are ready a week earlier than those of the Jersey Wakefield. Also sold as "Lightning" and under a number of other fancy names.

Per pkt. 5c; oz. 30c; ¼ lb. \$1.00, postpaid

EARLY JERSEY WAKEFIELD

Early Jersey Wakefield—The best first-early oblong-headed cabbage. The heads are uniformly hard and solid. They are pyramidal in form, generally pointed at the end, with but few outside leaves. The outer leaves are unusually thick and heavy, and it is thereby enabled to stand more cold weather without injury when carried through the winter.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

Large Wakefield or **Charleston**—The heads are of similar form, although not so pointed, but of equal solidity as the original Jersey Wakefield, while they grow half again as large, reaching full size about ten days later. Per pkt. 5c; oz. 30c; ¼ lb. \$1.00; per lb. \$3.50, postpaid.

Early Dwarf Flat Dutch—A well-known strain, popular for the summer; in our opinion this is not quite equal to Burpee's Allhead Early. The solid heads are carried on good short stems and they mature as a second early crop.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00

Copenhagen Market

Will Mature a Marketable Head
from Every Plant

Copenhagen Market—It is undoubtedly without a rival as the finest large round-headed early Cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time—(this being a great consideration to Market Gardeners, entailing less labor in harvesting the crop and allows the ground to be cleared at the first cutting). The heads average about ten pounds each in weight, and very solid, with small core and of fine quality. It matures as early as Charleston Wakefield and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level. The leaves are light green, rather small saucer-shaped, and always tightly folded. The plants, therefore, can be set closer than is usual with varieties of similar size.

Per pkt. 5c; oz. 25c, postpaid; ¼ lb. 75c; per lb. \$2.50

ENKUIZEN GLORY

A new valuable second-early Cabbage that is becoming immensely popular. It produces fine marketable heads fully as early as our famous Allhead Early—but round or ball-like in form. The heads are very solid, with but few outer leaves—and of such compact growth as to permit quite close planting—thus increasing the yield of a given area. The heads are of medium size (weighing from six to eight pounds trimmed), tender and of fine flavor. They keep well when put away and consequently Enkhuizen Glory is valuable also for sowing later in the season for early Winter use. Plants set out mid-Summer will produce fine heads before cold weather.

Per pkt. 5c; oz. 30c; ¼ lb. 90c

GOLDEN ACRE

Golden Acre—A very fine new sort from Denmark—the home of fine Cabbages. It is very uniform, almost every head could be cut at the same time. The originator states that Golden Acre matures quicker than any variety known to him. The head is of medium size, quite round, and is surrounded by a few small outer leaves. It is very firm and fully equal to any of the late sorts in this respect. On account of its hardness it will stand in the field for a month or more without bursting and can be shipped long distances and arrive in excellent condition. Don't fail to give the Golden Acre a trial.

Price, pkt. 10c; 1 oz. 40c, postpaid

Early Winnigstadt—This suffers less from insects than any other early cabbage. The heads are of the same size as the Jersey Wakefield, but more sharply pointed in form and not so early. The leaves are rich dark green, slightly glossy, most tightly folded, the heads being the hardest of any early cabbage. By reason of its great solidity it is also a popular variety to plant in the summer for winter use or cutting for kraut.

Per pkt. 5c; oz. 25c, postpaid

Baby Head—Of unusual merit. The beautiful little round heads are "solid as a rock" and weigh from three to six pounds, just a right size for family use.

Pkt. 10c; oz. 50c

LATE or WINTER CABBAGE

Burpee's Surehead Cabbage—This famous cabbage was first introduced years ago. It produces large round flattened heads, of the Flat Dutch type, and is remarkable for its certainty to head. It is all head and always sure to head. The heads are remarkably uniform, extremely hard, fine in texture, and ordinarily weigh from ten to fifteen pounds each. It is very sweet flavored, has but few loose leaves, keeps well, is good for shipping, and is just the variety and quality to suit all lovers of good cabbage.

Per pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. \$1.00; lb. \$3.00, postpaid

Perfection Drumhead Savoy Wirsing—This is the hardest heading and best all-around Savoy. Plants are of strong growth, having only a moderate amount of outer foliage growing closely about the large solid round heads. Heads beautifully blanching and of the finest flavor. Per pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00

Mammoth Rock Red—While late in maturing, this is the largest heading of all deep red varieties. In good soil the heads will average ten pounds.

Per pkt. 5c; oz. 25c

FILDERKRAUT

Similar to, but larger, much more pointed, and heading up with fewer outside leaves than the Winnigstadt, and highly esteemed for making kraut. Good either for first or second crop, and succeeds particularly well on rich prairie soils.

Pkt. 5c; oz. 25c

Danish Ballhead—Our seed is absolutely unequalled! It is esteemed for winter use because of the great solidity and excellent keeping qualities of the heads. From repeated trials, as well as from the experience of many customers purchasing our original Danish-grown seed, we know that this selected strain surpasses in even growth and heading, as well as in uniform size and solidity of heads, any other stock of "so-called Hollander Cabbage." The magnificent heads are nearly round in form, very hard and solid; they keep in finest condition, when buried through the winter, coming out solid in spring. Per pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

Danish Roundhead—Has given such splendid satisfaction to growers for winter market that we could fill pages with enthusiastic letters from pleased planters.

The heads average larger in size than those of the Ballhead, maturing about two weeks earlier, and are set on shorter stalks. They are extremely hard and solid, with interior leaves blanching to the purest whiteness; sweet flavor and crisp tender texture. Per pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

Premium Flat Dutch—An improved strain of the old Large Late Flat Dutch type. Highly esteemed. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50

BALLHEAD

Allhead Early—The earliest of all large cabbage, and considerably larger than any other early summer cabbage that is equally as early. The deep flat heads are remarkably solid and the most uniform in color, form and size of any variety. The hard heads grow so free from spreading leaves that fully one thousand more heads than usual with large cabbage can be obtained to the acre. It is really an all-the-year-round cabbage, being equally good for winter.

Per pkt. 5c; oz. 25c, postpaid; $\frac{1}{4}$ lb. 75c

A. B. C. PLANT PROTECTORS

SPECIAL NON-CURLING TAR FELT PADS
PROTECTS
FROM
CABBAGE
ROOT
MAGGOT

No maggot fly will be able to lay eggs around the stem of your young plants if you use A B C Protector. You won't lose 10 to 30 and 40 per cent of the planting, by the stems being eaten away. Last year A B C Protectors were used in all parts of the United States and Canada, many customers reporting that A B C's produced anywhere from 90 to 100 per cent crops.

The Early Cabbage is one of the best paying of your crops, and this year will, no doubt, bring higher prices than ever before; therefore, why not have a 95 to 100 per cent crop for a small additional expense of A B C Protectors?

We believe that this is the only protector on the market today successfully doing the work claimed for it. It lays flat on the ground, will not curl up on the edges, is the easiest protector applied, and will not dry up quickly. Prices as follows, postpaid: Per doz., 10c; per 50, 30c; per 100, 40c; per 500, \$1.50; per 1000, \$3.00.

CABBAGE PLANTS

During planting season we aim to have on hand large quantities of cabbage plants of the following varieties:

Early Jersey Wakefield
Copenhagen Market
Ballhead

For price see page 34

CHINESE CABBAGE

"Peking" (genuine "Pe-Tsai").—This grand variety is similar to the Chokurei in general appearance, but is superior to it in every way. The plant is of the same size, but the head proper is much larger and compact. The interior blanches creamy-white, crisp and delicious, and of that desirable rich celery flavor. It produces successfully throughout the year and is considered one of the best late fall and winter Pe-Tsai. It is a good keeper and shipper and its attractive appearance and fine quality make it one of the best sellers. We can say without exaggeration that this is the finest Pe-Tsai in existence today. Whether for medium early, main crop or late use, it has no equal, and is so finely bred and so true to type that in a field of several acres every head appears alike.

Pkt. 10c; oz. 50c; 4 ozs., \$1.75; lb., \$6.00, postpaid

WONG BOK

Chinese Cabbage

This Chinese Cabbage is becoming more popular each year. While it has been cultivated in China for years, it is comparatively unknown in many markets. Last season there was more than usual displayed on our "Public Market."

Wong Bok produces a beautiful, crisp, blanched tall or long head, resembling a giant Cos Lettuce. As a salad it rivals the finest lettuce. Delicious sliced as cold-slaw. Boiled or steamed it makes delightful greens, more sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool, moist weather. Will last until freezing weather. Pkt. 5c; oz. 35c; 4 oz. \$1.00

"PEKING" "PE-TSAI"

CAULIFLOWER

Cultivation—The main thing in growing good Cauliflowers is to rush them on quickly, and never allow them to be checked in their growth; in dry weather they should be copiously watered, especially if just planted out. The soil should be deeply trenched and well-dressed with stable manure, and occasional dressings of liquid manure during the growing season will materially increase the crop. Sow in seed beds, and, when large enough, transplant in rows two feet apart and eighteen inches between the plants. Hill up between the rows, and keep the ground well cultivated. Summer and autumn are the best seasons to sow. The later varieties are very much the hardiest, and will often make good heads under circumstances which would cause the early varieties to "button." The early sorts mature in three to four months, the later ones five to eight months.

CAULIFLOWERS FOR MARKET

To those intending to plant large areas, we wish to point out that Cauliflower is a precarious crop, the very high prices usually realised by those who are successful being convincing proof of this. The different varieties which modern horticulture has evolved are stable to a limited extent only. When conditions of soil and season are not altogether favorable the crop is likely to vary considerably in earliness, uniformity and type; sometimes Cauliflowers will fail to "head" at all. The descriptions are only intended to serve as a guide in the selection of varieties likely to be most suitable.

KING WHITE

King White—A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves and is similar in most respects to Early Snowball, and nearly as early. The heads when ready for market are of medium to large size. The curd is white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration we recommend this strain.

Per pkt. 15c; ¼ oz. \$1.00; oz. \$3.00

Early Snowball—This is a popular extra early strain of dwarf compact growth. Under favorable circumstances, nearly every plant will make a fine solid head of good size. It is valuable for both early and late.

Per pkt. 5c; oz. \$2.00; ¼ lb. \$5.00

Extra Early Dwarf Erfurt (Extra Selected)—This is the choicest selected strain of the popular Erfurt type.

Per pkt. 10c; oz. \$2.50

Algiers—A very strong growing late variety, with large leaves of a bluish cast. In cool locations and rich soil it produces very large solid heads late in the fall.

Per pkt. 10c; oz. \$1.25; ¼ lb. \$4.00

BURPEE'S NEW "DRY-WEATHER" CAULIFLOWER

Succeeds even where all others fail. Similar to Burpee's Best-Early, it produces equally large, solid, pure white heads, and is only about a week later. It is especially adapted for growing in dry locations where other varieties fail; make the soil quite rich and give thorough cultivation. It is superior to any other excepting only Burpee's Best-Early. By the use of this strain fine cauliflower can be grown in many dry districts where it has been impossible heretofore to raise this luscious vegetable.

Per pkt. 10c; ¼ oz. 75c; oz. \$2.50; ¼ lb. \$7.00

BURPEE'S BEST-EARLY

The Earliest and Best Quick-Growing Cauliflower—This grand strain was first introduced thirty years ago, and has fully maintained all the merits then claimed for it. The plants are of strong growth, with erect, pointed dark green leaves growing closely about the head. It is remarkable both for the extreme earliness and certainty with which the plants produce fine heads. In good soil the heads measure eight to ten inches across; they are of pure snowy white, with very close compact curd of extra fine quality. So extremely solid and deep are the nearly globe-shaped heads that they weigh heavier than other heads of equal size. Market gardeners can plant Burpee's Best-Early Cauliflower for both early and late crops, with full assurance that it is the choicest and most reliable strain that can be procured. Had we space to spare, we could publish many testimonials from experienced growers who are most enthusiastic in stating that this is beyond doubt, all its name implies—"The Best-Early Cauliflower."

Per pkt. 15c; oz. \$3.00; ¼ lb. \$10.00

CARROTS

CARROTS—BEST GARDEN

Chatenay—This splendid Carrot belongs to the half-long "stump" or blunt-rooted type, but differs from all others of this class by its greater girth, bulk and consequent yield. It averages 6 to 7 inches in length, is broad at the neck, narrowing gradually to the round, blunt base, therefore is easily harvested. The flesh, entirely free from core, is of rich orange-red and of the finest table quality, fine-grained, tender, juicy and delicately flavored.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Chatenay (New Coreless)—This is of the same type and shape of the favorite Chatenay, but shows red all through without yellow core. A very attractive carrot.

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

Butzer's Selected Half-long Danvers Carrot—A handsome half-long, cylindrical, stump-rooted Carrot of good size and of a rich, dark orange color; it grows to a large size, is smooth, and the flesh very close in texture, with very little core and a small tapering tap-root. It is a first-class Carrot for all soils; under good cultivation it has yielded 25 to 30 tons per acre, with the smallest length of root of any now grown, and is more easily harvested than the longer types. Our selected stock gives the best of satisfaction.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Guerande, or Ox Heart—Tops small for the size of the roots which are comparatively short but often reach a diameter of five inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young the roots are excellent for table use and when mature are equally good for stock.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Culture—While sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land if thoroughly and deeply worked will produce satisfactory crops. When possible to do so, it is advisable to sow as early in the spring as the ground is fit to work, though good crops may, in this latitude, be grown from sowings as late as June 15, but success from such late planting is uncertain. For table use sow the smaller kinds as early as practicable in rows 16 to 18 inches apart. For field culture, prepare the ground thoroughly and sow in drills 18 to 24 inches apart, using from one and one-half to three pounds of seed to the acre. Cover one-half to one inch deep and see to it that the soil is pressed firmly above the seed. As soon as the plants appear use the cultivator or wheel hoe. Do not let the weeds get a start. Thin the smaller table sorts from six to eight to the foot, and the field varieties from four to six inches apart in the row. For winter use, gather and store like beets or turnips.

Improved Long Orange—This is a decided improvement obtained by years of careful selection of the best formed and deepest colored roots of old Long Orange. The most popular of the older sorts for farm use on deep and mellow soil. Roots distinctly larger at crown, shorter, thicker and smoother than those of Long Orange, but so uniform and true to type that the bulk of the crop will be greater. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid. Write for price on larger quantities.

Improved Nantes (Coreless)—A fine quality half-long carrot, almost cylindrical in shape, blunt end and very small tap root. Flesh fine grained, with very little core. The skin is a beautiful orange color and very smooth. Improved Nantes is one of the best table sorts that we list.

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

Early French Forcing—This is a delicious little table carrot, tender and sweet-flavored, and very early. It is almost globe-shaped.

Pkt. 5c; oz. 15c; ¼ lb. 40c

Early Horn—Short; the best for early market. In shallow ground a good variety to plant, even for main crop.

Pkt. 5c; oz. 15c; ¼ lb. 40c

Carrots for Stock Feeding

Improved Short White Mastodon—The most productive and most easily harvested for stock feeding. The roots grow about eight inches in length, measuring three inches at shoulder and gradually tapering throughout their length. Smooth, white skin, free from small rootlets. Flesh solid, white, crisp, rich and nutritious. We have reports of this variety yielding 20 tons per acre.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Large White Belgian—This Carrot grows a third or more of its length above the surface. Roots will average two inches in diameter at the shoulder and a foot or more in length. The diameter is even throughout the entire length, the roots tapering gradually at the base. They are easily pulled in harvesting, and do not have to be dug out, like most long-rooted sorts. Flesh and skin pure white, though the latter is occasionally tinged with green in upper portion growing above the soil.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Large Yellow Belgian—This is similar in growth and form to the preceding, but flesh and skin of the portion growing below the soil are of a pale orange coloring. These two varieties have probably been grown more extensively than any others for stock feeding in the past, but are destined to be superseded to a great extent by the large, thick roots of the improved white variety offered above, and the thick, stump-rooted table sorts.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Golden Self-Blanching

American Grown

The best of all early "self-blanching" varieties. First introduced in America in 1884, this is decidedly better in quality than the White Plume. It is ready for use nearly as early, blanches as easily, and is larger in size. It is of dwarf compact habit, with thick, solid, heavily ribbed stalks, which blanch easily to a clear waxen yellow. When grown in rich moist soil, the stalks are numerous, each plant being fully as thick through as the largest of the tall late sorts, and with a large solid heart of beautiful golden-yellow stalks and leaves.

Pkt. 5c; oz. 50c, postpaid

CELERY PLANTS SEE PAGE 34

Celeriac or Turnip Rooted Celery

Culture—Sow the seed at the same season and give the same treatment as common celery. Transplant the young plants to moist rich soil, in rows two feet apart and six inches apart in the row. Give thorough culture. As the roots are the edible portion of this vegetable, it is not necessary to earth up or "handle" it. After the roots have attained a diameter of two inches or over, they are fit for use. To keep through the winter pack in damp earth or sand and put in the cellar or leave out of doors, covering with earth and straw like beets or carrots.

Large Smooth Prague—An improved form of turnip-rooted celery producing large and smooth roots, which are almost round and with very few side roots. Plants vigorous, with large, deep green foliage.

Pkt. 5c; oz. 30c; 2 oz. 60c; ¼ lb. \$1.00.

CELERY

Culture—Sow the seed (which is slow to germinate) in shallow boxes indoors or in a finely prepared seed bed out of doors in straight rows, so that the small plants may be kept free from weeds. See to it that the seed is not covered too deep and that the bed is kept moist, almost wet, until the seed germinates, as plenty of moisture is essential to get a satisfactory growth. The seed will not germinate well if planted in a hotbed or where subjected to a temperature above 60 Deg. Fr. When the plants are on or two inches high, thin out and transplant so that they may stand three inches apart each way. When they are four inches high, cut off the tops, which will cause the plants to grow stocky.

Golden Self-Blanching

French Grown

It is of dwarf compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear waxen yellow. When grown in rich moist soil, the stalks are numerous, each plant being fully as thick through as the largest of the tall late sorts, and with a very large solid heart of beautiful golden-yellow stalks and leaves. The stalks are crisp and solid, free from stringiness, and of most delicious flavor. Finest French-grown seed, which is unsurpassed, Per pkt. 15c; ½ oz. 60c; oz. \$1.20; 2 ozs. \$2.35; ¼ lb. \$3.50; lb. \$11.00.

White Plume

This is the earliest and most easily blanched, but does not keep well taken from the trenches. The plants grow rapidly and blanch easily during the summer months. Later in the fall the central stalks and leaves are of pure snowy whiteness, even without earthing up, but stalks should be gathered together and earthed up as in other varieties, so as to produce close attractive bunches.

Per pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.50, postpaid

CHICORY

Large-Rooted or Coffee—Per pkt. 5c; oz. 20c; ¼ lb. 45c; per lb. \$1.60.

Witloof. (French Endive.) Seed sown in the spring produces long, thick roots by November. To force for use the roots are dug in the fall, trimming off the leaves an inch above the crown. Trench in a warm, dark place, covering with six or eight inches of soil and a top layer of fresh manure. The blanched head of leaves thus obtained resemble Cos lettuce and makes a delicious salad. Per pkt. 10c; oz. 25c; ¼ lb. 80c

CHERVIL

Curled Chervil—Beautifully curled and crisp.

Per pkt. 10c; oz. 25c; ¼ lb. 75c

CRESS

Fine Curled Peppergrass—Quick growing, finely cut and feathery, like a good parsley; growth dwarf and compact; ornamental, crisp and pungent; very refreshing. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50, postpaid

Water Cress—Highly esteemed as a salad during the Spring and Fall, also used as a garnish for meats during the Winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water.

Per pkt. 10c; oz. 45c; ¼ lb. \$1.50

Dandelion (Lowenzahn; Dent-de-Lion.)—Cultivated for spring greens, is fast gaining favor. Our thick or cabbage-leaved variety is best; unlike common sorts, almost double usual size. Pkt. 10c; ½ oz. 40c; oz. 75c

CORN--Sweet or Table Varieties

"GOLDEN BANTAM"

Earliest and Best of All Extreme-Earlies—Most Surprisingly Delicious in Flavor—Most Famous Corn Grown

Golden Bantam—Is becoming each year more firmly fixed in popular favor, because of its extremely early character, vigorous growth and surpassing delicious flavor.

Although the dry grain is entirely free from any flinty glaze, it is exceptionally hard and firm, hence can be planted earlier than any other true sweet corn. The stalks are dwarf and sturdy in habit, growing to a height of four feet; they bear two and three good ears, which are set well above the ground. The ears, five to seven inches in length, have eight rows of broad yellow grains, extending to the extreme rounded tip.

Pkt. 10c; lb. 25c; 5 lbs. \$1.00, postpaid

GOLDEN CREAM

This sweet corn is of California origin and the result of crossing the Golden Bantam on the Country Gentleman. The Golden Cream resembles the Country Gentleman in appearance, having the same irregular rows and has also the deep-pointed kernel and the slender cob of that variety, otherwise it is entirely distinct, being of dwarf habit in growth, having an ear about the length of the Golden Bantam, and differs from the Country Gentleman in time of maturity, being very early.

Per pkt. 10c; lb. 30c, postpaid

HOWLING MOB

For the earliest supply of fine, large, handsome ears, having the true sweet or sugary flavor, we feel that we cannot recommend the Howling Mob too strongly, either for home use or to the market gardener having a trade for quality in garden products.

Per pkt. 10c; lb. 30c, postpaid

STOWELL'S EVERGREEN

Stowell's Evergreen—This has long been the leading main-crop variety for home use, market and canning. Our stock is carefully selected, and can be depended upon to produce fine large ears of superior quality. The grains of good size, are long and slender—entirely free from glaze or flintiness. Per pkt. 10c, lb. 25c; 5 lbs. \$1, postpaid

BLACK MEXICAN

Black Mexican—A medium-early variety, growing about six feet in height, ears eight inches long, well filled with eight rows of large rather flat grains, which are a deep bluish purple of superlatively sweet flavor.

Pkt. 10c; lb. 30c, postpaid

COUNTRY GENTLEMAN

Country Gentleman—Has a small white cob densely covered with irregular rows of deep, splendid white grains of delicious flavor. Ears average 8 to 9 inches in length. The stalks grow about 6 feet high and average three or four ears each.

Pkt. 10c; lb. 30c, postpaid

PORTLAND MARKET

An Oregon introduction, a very early, large eared sweet corn and very productive. Its large well-filled ears together with its plump, sweet grains of purest white, make it a most profitable home or market variety. Very popular with our market gardeners.

Pkt. 10c, lb. 25c; 5 lbs. \$1.00, postpaid

OREGON EVERGREEN

The flavor and sweetness have not been excelled and the extreme whiteness of the large ears makes it very beautiful and valuable for canning. It is large and the stalks produce more ears than any other variety and have a very heavy husk over the grains, protecting them from insects and keeping the ear fresh a long time after cutting.

Pkt. 10c; lb. 30c, postpaid

POP CORN

Black Beauty—We believe this is not only the earliest maturing variety in cultivation but it is ready for popping earlier than any other sort. It pops very large and exceptionally white. The kernels are black but this color is not noticeable after popping, when this sort is the largest and most tender of all. The ears are about six inches long, twelve rowed. The kernels are smooth, shallow and are nearly square.

Per pkt. 10c

White Rice—A very handsome and prolific white variety. The ears are five to seven inches long. The kernels are long, pointed and somewhat resemble rice. This excellent rather late maturing variety yields heavily and is considered the best pop

Per pkt. 10c

STOWELL'S EVERGREEN corn for parching.

FIELD CORN

THESE VARIETIES HAVE ALL BEEN GROWN ESPECIALLY FOR SEED. THE SEED IS WELL CURED AND TRUE TO NAME.

There is no longer any doubt as to Corn being grown successfully in the Northwest, and careful tests have proven the following to be adaptable to our coast climate. As a fodder crop corn cannot be excelled, and cut green and packed in silos it makes a valuable green feed for milch cows.

We can quote very low price on Corn in lots of 10 lbs. and over. Write and ask us.

MINNESOTA No. 13

This dent corn has been a surprise to its users on account of its extreme earliness. The ears are not as large as some other varieties, but its large production of ears makes it a heavier yielder than most others.

The ears are of handsome appearance, bearing 16 to 20 rows of bright, yellow, smooth wedge-shaped kernels packed closely on the cob from butt to tip. The ears average eight inches in length and are borne usually two on a stalk. No corn excels in quality the Minnesota No. 13; the cobs are well filled and the individual kernels plump and of good color.

Minnesota No. 13 thoroughly matures in ninety days when planted on favorable soil and in a good location, but ninety-five to one hundred days places it out of danger under average conditions. It may be planted as late as the second week in June and yet safely mature a crop.

Per lb. 15c, postpaid

IMPROVED LEAMING

A very popular and extremely productive variety. On good land the stalks grow tall, producing two good ears to each stalk. The ears are long, with small red cob, well filled with grains of medium size, of a rich golden color. It ripens in from 100 to 110 days, and makes a good crop even in dry seasons, by reason of its strong vigorous growth. Stalks are leafy, making excellent fodder, while the grains, being so deep, yield an extra large quantity of shelled corn per bushel of ears. Per lb. 15c, postpaid

EUREKA ENSILAGE

This variety is a favorite for the silo. But some objection has been expressed, that the stalks are too large to be handled conveniently. This would indicate that it had been grown on very rich soil. It is very stalky and stands up well. The tonnage of silage per acre will average well above 20 and may yield 30 tons. Any claim above this is based upon individual acreage. Per lb. 25c; 10 lbs. \$2.00, postpaid. Write for quantity price.

HAND CORN PLANTERS

THE ACME

Corn Planter
Price, \$1.25

THE ACME CORN PLANTER

A two-handled 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 works horizontally and will drop seeds ranging from popcorn to large kidney beans. Made with spring brass cut-out and steel blades.

Acme Corn Planter, weight.

5 lbs.\$1.25

THE SEGMENT ONE-HAND CORN AND BEAN PLANTER

A light, strong, accurate planter. The working parts are of steel, the brush of genuine Chinese bristles, the seed box and hopper of galvanized iron. As the name of the planter indicates, the slide is the segment of a circle and so constructed that there is no friction of lost motion.

Segment Corn Planter,

weight 5 lbs.\$2.00

If wanted by mail add postage.

THE ROTARY HAND CORN PLANTER

Automatic—One Hand

Puts the right number of kernels just where you want them and at the proper depth, requiring only one hand, either right or left. Weight packed, 6 pounds.

Price, \$2.50

PRIDE OF THE NORTH

A Dependable Early Yellow Dent Corn. In some sections of the Northwest it equals other varieties in yield and quality. The stalks are well proportioned, being short jointed and leafy. Two or more well developed ears are frequently found on a single stalk. The kernels are very deep and closely set on the ear. Pride of the North shells more Corn in proportion to cob than most other varieties grown in the West. It is specially valuable to stockmen, to feed in the bundle thus saving the expense of husking. Average height of stalk 8 feet, average distance base of ear from ground, 3 feet.

Per lb. 15c, postpaid

PRIDE OF THE WEST

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

Per pkt. 10c, lb. 15c, postpaid

EVERGREEN SWEET FODDER CORN

All varieties of sweet corn possess very much more "sugar" than any feed sort, and this being the most important constituent, it necessarily follows that the corn holding this in greatest quantity has the greatest net value. Evergreen Sweet Fodder grows much taller than the Early Sweet Fodder and makes well formed, but not matured, ears in almost any part of the Northwest. Drill 1½ to 2 bushels to the acre.

Per lb. 20c, postpaid

CHAMPION WHITE PEARL

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

lb. 15c, postpaid

The ROTARY HAND CORN PLANTER

Automatic—One Hand

Price \$2.50

THE SEGMENT ONE-HAND CORN PLANTER

Price \$2.00

CUCUMBER

The Cucumber requires well-enriched soil, and should not be planted until settled warm weather, in this latitude, seldom before the middle of May. Plant the early, small kinds in hills $3\frac{1}{2}$ to 4 feet apart, the larger varieties 5 to 6 feet. Make the hills broad, use 15 to 20 seeds to the hill, dropping them well apart. Cover with not over an inch of earth, and firm this well with the hoe. If the young plants are attacked by the striped bugs or other insects, dust frequently with air-slacked lime, soot or ashes mixed with road dust, taking care that too much is not used at one time. When all danger from bugs is past, thin to three plants to the hill. Give frequent shallow cultivation as long as vines will permit.

Arlington White Spine—The cucumbers are very regular in outline, uniform in size, averaging seven to eight inches in length, straight and of a rich, dark-green color. Flesh white, crisp, and solid, with comparatively few seeds. Vines are of vigorous growth and very productive.

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

Davis Perfect—Fruits very deep green in color, rather long, averaging ten inches or more in length, white spined, quite slender, symmetrical, tapering slightly at both ends. Flesh is crisp, tender and of good quality. The seed cavity is small. The vines are very vigorous growing and quite productive. Recommended as one of the best sorts for shipping as it retains its attractive dark color for a long time after picking.

Per pkt. 10c; oz. 15c; 2 oz. 25c; $\frac{1}{4}$ lb. 40c; lb. \$1.50

Extra Early Green Prolific, or Boston Pickling—This is a very prolific variety, largely planted for pickles. The fruits average four to five inches in length when large enough for slicing, and are of excellent quality; but it is chiefly for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; per lb. \$1.00

Fordhook Famous—The longest White Spine, the finest flavored of all. This is the handsomest and best of all long green cucumbers; always straight and well formed; they never turn yellow, and critical buyers are willing to pay an extra price on market for these unequaled fruits.

Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.40, postpaid

Fordhook Pickling—This is the best and most prolific variety for producing pickles of medium size, both for home use and market, or to grow for the pickle factories—in fact, we prefer it to the Cumberland. The vines are extremely vigorous and healthy, yielding a large number of fruits if kept gathered at the proper stage, and remaining in strong, healthy growing condition longer than any other variety. Skin extremely thin, tender and free from toughness when pickled. If allowed to grow to full size, fruits are of excellent table quality, but where the largest quantity of pickles is desired fruits should be gathered while small, so as to insure the greatest crop to produce larger fruits for slicing will soon check growth and productiveness of the vines.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; per lb. \$1.00, postpaid

Long Green (The old stand-by)

London Long Green—This is an old-time popular garden favorite. Under favorable conditions produces dark-green fruits from ten to twelve inches in length. Skin a deep rich green; flesh solid, crisp and of excellent quality.

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

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. 15c; $\frac{1}{4}$ lb. 50c

Lemon Cucumber—This dainty little cucumber resembles a lemon both in form and color, having a distinctive flavor superior to and not found in any other cucumber. The Lemon Cucumber is so prolific that a single vine will be ample for the needs of the average family. It is also said that the Lemon Cucumber can be eaten without fear of harmful results that some experience from eating cucumbers.

Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.00

West India Gherkin—A very prolific small-fruited variety, used exclusively for pickling. It is not properly a cucumber, and of no value for slicing. The fruits are two to three inches in length, thick, rounded form, closely covered with spines. Vines rather slender, with small foliage, but of strong growth.

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

Fordhook White Spine—The fruits are nearly cylindrical in form, slightly pointed at the ends, perfectly smooth, of deep rich coloring, marked with distinct white lines at the blossom end. They are of extremely handsome and attractive appearance. Vines are vigorous in growth and enormously productive. Fruits retain their dark-green coloring and crisp freshness longer after picking than any other variety—excepting only the new "Fordhook Famous." They retain also their fine quality even after the seeds are well formed. Splendid as table cucumbers and for market, while it is equally as desirable for commercial pickles. Per pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; per lb. \$1.25, postpaid.

NOVELTY CUCUMBER "CHINA-LONG"

A most remarkable and handsome new long green cucumber from China. The most fleshy and finest flavor of the long green type. The vines make a tremendous growth. They are unusually vigorous, bearing an enormous crop. The foliage is rich dark green and is quite resistant to diseases and insect attacks.

China-Long makes perfectly straight fruit. They average about 20 inches. They are thickest in the middle of fruit, where they average 2 to 3 inches in diameter. The attractive fruit tapers gently towards the ends, holding their thickness well until they run off into a round stem and blossom end. We recommend this novelty cucumber as much the best of all, and the variety anyone should plant.

Per pkt. 15c, postpaid

ENDIVE

Endive is one of the best and most wholesome salads for fall and winter use. Sow in shallow drills in April for early use or for late use in June or July. When 2 or 3 inches high, transplant into good ground or thin out to 1 foot apart. When nearly full grown, and before they are fit for the table, they must be bleached. This is done by gathering the leaves together and tying with yarn or bass to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot. Another method is to cover the plants with boards or slats. In three or four weeks they be bleached.

Green Curled—Leaves finely cut or lacinated.

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

White Curled—Does not need blanching, the midribs being naturally of a pale golden-yellow, and the finely cut and curled leaves almost white.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50

Batavian—Large heads of broad, thick leaves, which can be blanched as a salad or make excellent cooked greens.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50

FRENCH ENDIVE

or Witloof Chicory. French Endive is used principally as a winter salad. Sow the seed in the open ground not later than June. Lift the roots in the fall. When wanted for forcing trim to an even length of 6 inches. Pack upright in a box in rows and a two-inch layer of soil at the bottom. Loosely cover with 6 inches of sand or light earth. After watering thoroughly, place the box near the heater of the cellar and keep moderately moist until the sprouts push through.

Pkt. 10c; oz. 25c; 4 ozs. 80c, postpaid.

KOHL RABI

Early White Vienna—This variety is extremely early, with distinctly small tops. The bulbs are of medium size, very light green or nearly white, and are of best quality for the table if used when about two inches in diameter.

Per pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$3.00

Early Purple Vienna—Same as above except in color, which is purple.

Per pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 75c

EGG PLANT

Every garden should have a few Egg Plant plants. These are easily grown and bear a good crop with little attention. Egg Plants, sliced and fried, are delicious and would be much more popular if better known.

Black Beauty—Very early, the fruit being ready for market two weeks before any other variety. Color very fine, being a purplish black. A good variety for a main crop for market. Per pkt. 10c; $\frac{1}{2}$ oz. 40c; per oz. 70c; 2 ozs. \$1.15; $\frac{1}{4}$ lb. \$2.00; per lb. \$7.00.

CHINESE WONDER

One of Oriental curiosities, the fruit oblong attaining a length of 15 to 25 inches, with beautiful purplish-black color. The skin is very thin and flesh is tender; has very few seeds. Plants are hardy and prolific. Is excellent for pickles, boiled, fried, stewed, etc. Easy culture.

Pkt. 15c; $\frac{1}{2}$ oz. 80c; oz. \$1.50; 4 ozs. \$5.00, postpaid

KOHL RABI

The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip.

Seed should be sown in light, rich soil as early in spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for fall use.

Thousand-Headed Kale

Is a variety of cabbage that produces enormously. The plant attains a height of 3 to 4 feet; the stem is covered with leaves. Animals, especially sheep, eat it greedily. It grows well on any land and is very hardy. As we predicted it is now more popular than the widely used Dwarf Essex Rape.

The seed may be either drilled or broadcasted. Drilled is the better. If drilled, plant rows 26 to 30 inches apart as plants should be thinned out so as to stand 16 to 18 inches apart in the rows. In drilling use $\frac{3}{4}$ to one pound of seed to the acre; in broadcasting, $1\frac{1}{2}$ lbs.

Per pkt., 5c; oz., 10c; $\frac{3}{4}$ lb., 15c; lb. 40c, postpaid.

PLANTS IN SEASON
Write for Price

THOUSAND-HEADED KALE

MARROW CABBAGE—Chou Moellier or White Stemmed Marrow Kale

The plants average four to six feet in height, with stalks five to six inches in diameter, and weight fourteen to twenty pounds. The stalks are edible, and are relished by cows. The lower leaves are broken off and fed as they mature.

The plant is not so hardy as Thousand Headed Kale, but is most valuable for green feed in fall and early winter.

Culture is the same as for kale and cabbage. One pound of seed will produce plants for one acre. Price: Pkt., 5c; oz., 15c; per lb., \$1.50, postage paid.

Tall Green Curled Scotch Kale—The plant of this variety grows to three or four feet high, bearing long, plume-like, light green leaves which are deeply cut, also finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality.

Per pkt., 5c; oz., 15c; 2 oz., 25c; $\frac{1}{4}$ lb., 40c; lb., \$1.25

**TOBACCO DUST WILL PROTECT YOUR
VEGETABLES FROM LEAF-
EATING INSECTS**

KALE OR BORECOLE

This is extensively grown, especially in the South during the fall, winter and spring. The leaves are used principally for greens. A favorite way is to cook them with bacon. The leaves are also used for garnishing.

Where climate permits seed may be sown any time from August to October, broadcast or preferably in drills eighteen inches apart so that the plants when small may be cultivated. The quality is improved rather than injured by frosts if not too heavy. Farther North sow in April or May in rich light soil in rows two to three feet apart and where plants of the largest size are desired thin to two feet apart in row. It is better not to cut or handle the plants while frozen, but if this is unavoidable, thaw them out in cold water. The young shoots which start up in the spring from the old stumps are very tender and make excellent greens.

Dwarf German or German Greens (Dwarf Curled Scotch)—Leaves are curly, bright green, very tender and delicate in flavor.

Per pkt., 5c; oz., 20c; $\frac{3}{4}$ lb., 60c; lb., \$1.75, postpaid

GARLIC

The Garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root or bulb is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather.

Bulbs, lb., 25c, postpaid

HORSERADISH

Sets planted in May, small end down, with the top one inch below the surface, in rich, well-cultivated soil, will form radish of large size in one season's growth. Of the common variety, we offer small roots, 8 for 20c; 25c per dozen, or 90c per 100, postpaid. By express or freight, per 100, 75c. Write for price in quantity.

LETTUCE

For early outdoor culture in the latitude of Portland and Southward the seed may be planted in the Fall, protecting the young plants from severe freezing either with frames or coarse litter, which may be removed as soon as danger of severe freezing is over.

Lettuce in ground out of doors will stand some freezing, but is killed by prolonged frost or frequent freezing and thawing. North of Portland an early crop may be secured by starting under glass from January to March and hardening off well before setting in ground, which should be done as soon as weather will permit.

Culture—Lettuce, to be at its best, should be grown rapidly, hence, the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For Winter, sow under glass from November to February and thin out as necessary to prevent crowding. Keep a moderate heat and give all the light and air possible. For general crop, sow outdoors as early in the Spring as the ground can be worked, in drills eighteen inches apart and thin the young plants to four inches apart in the row. As the plants begin to crowd, thin them out and use as required. In this way a much longer succession of cuttings may be had from the same ground.

New York or Wonderful Lettuce

THE KING OF ALL HEAD LETTUCE

The real test of any variety is what it does in the hands of the market gardener and commercial grower. The man who depends on his crops for his bread and butter is going to plant that variety which he knows will yield the best crops. The commercial grower cannot afford to take any chances on the variety he plants. He MUST have the best.

The seed we offer is grown by the best growers in the country. The genuine New York or Wonderful forms such a solid head that the seed stalk is unable to break through. Our seed is saved from only such heads which must be cut to let the seed stalk come out.

Buy Butzer's New York or Wonderful and you'll get the best. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid.

NEW YORK NUMBER TWELVE LETTUCE—NEW

The introducer says: "This is a single plant selection of our own culture which we have been breeding for several years. We believe it to be the outstanding selection of this variety and a great improvement over any existing types of New York. No. 12 is much earlier, makes large solid heads, uniform in maturing and of the flat head type. Several fields of this strain produced better than 80 per cent of No. 1 heads inside of 65 days from planting." Pkt. 10c; oz. 50c; ¼ lb. \$1.00

CREAMY HEART—NEW

The introducer says: "A selection we have made from California Cream Butter. It is similar to that sort, but is earlier and without any brown spots or brown edge, and is of most excellent, tender quality. It is very desirable for early spring planting, where a butter head variety is demanded both for market and home garden. We believe it has a place in the list of lettuce, in that, for early planting it is superior to Black Seeded Tennisball and similar varieties." Pkt. 10c; oz. 50c; ¼ lb. \$1.00

BIG BOSTON

This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size in a cooler temperature than most forcing strains. Large heads are beautifully blanched and of superior quality. It heads well in the open ground during cool weather of spring and fall; is very popular. Our seed is an extra selected strain.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

Burpee's Butterhead—A grand mammoth hard-heading Cabbage Lettuce. Plants twelve inches across, with extra large, solid round heads, that are particularly rich and buttery in flavor, always well blanched and tender. The inner leaves are beautifully white and curled like a fine Savoy Cabbage. Splendid for summer use, both for the home table and for market. Most highly recommended.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

Brown Dutch—Outer leaves large, thick, green tinged with brown and covering a solid head which is beautifully blanched, sweet, tender and well-flavored. The variety is desirable because of its hardness and is well adapted for planting in the South as a winter lettuce.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.25

California Cream Butter, or Royal Summer Cabbage—A very reliable heading sort, with glossy deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large very solid head, rich light yellow in color, very thick, tender and buttery.

Pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.25

Hanson—Grows to large size, and is uniformly sure heading. Heads very solid and beautifully blanched; crisp, mild and tender. One of the finest varieties to grow for market during the summer months. Our stock is unexcelled.

Per pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.25, postpaid

DEACON, SAN FRANCISCO MARKET, LARGE RUSSIAN, or VAUXHALL

This magnificent lettuce stands hot weather better than any other of the rich butter varieties, and is justly most popular. Plants make firm heads, nearly as large and almost as solid as cabbages. The heads are light green outside, while the inner blanched portion is beautiful cream-yellow, of delicious, rich buttery flavor.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

Iceberg—The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which, curving strongly into the center, acts like a truss, making it impossible for the leaves to open outward and expose the center, which is constantly thoroughly blanched. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always crisp and tender.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

MAY KING

The heads are very attractive, outer leaves being yellowish-green, tinged with brown, while inside it is richest golden-yellow. It is somewhat similar in appearance to Boston Market, but matures earlier and is lighter green in color, with less of the brownish tint.

Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

Wayahead—A very fine, very early strain of famous May King Butterhead, which it surpasses in every respect. 75 days to mature.

Pkt. 5c; oz. 35c; ¼ lb. \$1.00; lb. \$2.00, postpaid

Makes a
Wonder Garden

LETTUCE -- LOOSEHEAD CUTTING

BLACK SEEDED SIMPSON

One of the best varieties for early sowing out of doors where a large, thin, exceedingly tender leaf is desired and for those markets which demand a large, loose clustering sort, light yellowish green. Leaves large, thin, slightly ruffled and blistered, even the large outer ones being quite tender. Uniformly attractive, of excellent quality and continues a long time in condition for use.

Pkt. 5c; oz. 15c; 2 oz. 25c; $\frac{1}{4}$ lb. 40c; lb. \$1.50, postpaid

EARLY CURLED SIMPSON'S

An early, erect growing, clustering variety. Leaves light green, slightly frilled and much blistered, sweet, tender and well-flavored. The sort is especially adapted for sowing thickly and cutting when the plants are very young.

Pkt. 5c; oz. 15c; 2 oz. 25c; $\frac{1}{4}$ lb. 40c; lb. \$1.25, postpaid

EARLY PRIZE HEAD

This old standard variety is still the best of the large, thin-leaved clustering sorts for the home garden, but is too tender to stand shipping or handling on the market. The leaves are very large, crimped, bright green tinged with brownish-red and are exceedingly tender and sweet.

Pkt. 5c; oz. 15c; 2 oz. 25c; $\frac{1}{4}$ lb. 40c; lb. \$1.35, postpaid

GRAND RAPIDS

This does not form heads, but makes large compact bunches of light leaves with fringed edges. Its delicious quality and handsome appearance make it most popular in winter markets. It is useful also for outdoor planting during spring and fall. Our stock is extra fine.

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

FERTILIZERS FOR LETTUCE

To grow the best tender Lettuce it is advisable to have a very rich, friable soil. The quality of this vegetable is largely dependent upon the rapidity with which it is grown, therefore liberal manuring and thorough preparation are profitable. We recommend for this purpose, Morecrop Fertilizer and Sheep Manure.

CHICKEN LETTUCE

A variety recommended for chicken-feed only, as it produces a large bunch of leaves. When running to seed, grows 4 feet tall and supplies lots of green feed. A fine tonic for laying hens. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.50

Cos or "Celery" Lettuce—Salad Romaine

This is the Lettuce that is served at the best hotels and restaurants under the name of "Romaine Salad." It differs from ordinary Lettuce by the shape of the leaves, which are elongated, spoon-shaped and very crisp. It is grown in the same manner as Cabbage Lettuce, but does not make a solid head. The seed should be sown early in the spring, in good soil, and when plants have three leaves thin out to stand about 4 inches apart in the row, and when plants are of a sufficient size the leaves should be drawn together and tied, in order to blanch the inner ones.

EARLY WHITE SELF-FOLDING

This excellent variety, also called Trianon, forms a large light green plant with a well folded head of very good quality. The mid-ribs are white and very prominent. The inner leaves are nearly white, slightly tinged with green, and are decidedly firm and sweet. This is considered the most reliable of the Cos or celery lettuces for the home garden or market gardeners' use in this country.

Pkt. 5c, oz. 15c, 2 oz. 25c, $\frac{1}{4}$ lb. 40c, lb. \$1.50

ECLIPSE, OR EXPRESS

Eclipse, or Express, is a dwarf extra early sort, growing about six inches in height, with the leaves very closely folded together.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.50

LEEK

This belongs to the onion family and is a good fall and winter substitute for green onions. The leaves are flat, and the stems are very large, cylindrical and bulbous. Sow early in spring in drills 12 to 15 inches apart, covering one-half inch deep. Thin plants to six inches apart in row and draw the earth about them when cultivating. If one desires very white and tender leeks, transplant when about six inches high, setting four inches apart in trenches about two feet apart and gradually earth up like celery.

Broad London, or Large American Flag—This is a strong growing variety, producing large, thick stems of sweet flavor when properly blanched. Per pkt. 5c; oz. 25c.

MUSK MELON—SALMON FLESHED

Culture—Plant the seed in hills six feet apart each way, dropping ten to twelve seeds in a hill. After the plants begin to crowd and the striped beetles are pretty well gone, thin to four of the most vigorous plants in a hill. Give frequent but shallow cultivation, until the plants make runners so long that this is impracticable. Rich earth for the young plants is far better than manure, but if the latter must be used, see that it is well rotted and thoroughly mixed with the soil.

If the plants grow very rank, more and finer fruit will be secured by allowing the main branch to continue growing, but pinch off the end of each side branch after it has one fruit set. The quality of melons of all varieties is largely dependent upon conditions of growth and ripening. Unhealthy vines or unfavorable weather produces fruit of comparatively poor flavor.

Burrell Gem—Melons six to seven inches long, four and a half to five inches in diameter, sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon colored flesh, sweet and tender. The flesh is thick and firm, ripening close to the skin, leaving only a thin rind. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.25, postpaid.

Burpee's Fordhook—The most perfect cantaloupe. It is about the same size as Improved Jenny Lind, very thick flesh, of orange yellow, very small seed cavity, comparatively few seeds, flesh very solid and of very high flavor, flesh staying solid and firm after melon has become quite yellow, making it an excellent long distance shipper. The vines are healthy and a very strong grower, setting fruit close to hill and keep on setting fruit throughout the season to end of vine. They are well ribbed, very heavily netted, weighing about two pounds apiece. Per pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c; per lb. \$1.50, postpaid.

BURPEE'S "SPICY" CANTALOUPE

The Spicy is of vigorous growth, wonderfully prolific and strikingly distinct. The handsome melons average about nine inches long by six inches in diameter and are very solid with an unusually small seed cavity. The firm flesh is of the richest salmon color.

Per pkt. 15c; oz. 30c; $\frac{1}{4}$ lb. 85c; lb. \$3.00

"Edwards Perfecto"—"Salmon Fleshed Rockyford". "Better than Pollock 10-25". Fruit uniform in size, nearly round, and densely covered with a hard gray netting. Flesh very thick with a delightful salmon-color shading into green as it nears the rind. The Perfecto has the deepest flesh, smallest seed cavity and more salmon color than any type of Rockyford shipping melon. The small seed cavity is an aid in shipping as well as appearance.

Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 75c; lb. \$2.00

Golden Eagle—The oval fruits average ten inches in length and seven inches in diameter; heavily ribbed and netted, with skin of a light golden hue when ripe. The thick flesh is of a rich salmon, sweet and melting, with a delightful aroma. It is particularly desirable for heavy soils, and continues bearing throughout the season.

Per pkt. 10c, oz. 30c

Hearts of Gold—This melon runs very uniform in size. It is a splendid shipping variety and is increasing in use. The melons are oval to oblong in shape and are a little larger than the Rockyford variety. While it is a ribbed melon the ribs are not prominent and the melon is very heavily netted. The flesh is a rich orange color, fine grained and of excellent flavor. The seed cavity is small. It does not turn yellow when ripe but retains its natural green color and remains solid and firm for days after it is picked from the vine. The vines are very strong growers and are rarely affected by rust. Hearts of Gold might be considered one of the leading commercial varieties in California for shipping purposes and we strongly recommend it be given a thorough trial. Pkt. 10c; oz., 20c; $\frac{1}{4}$ lb., 55c; lb., \$2.00, postpaid.

Emerald Gem

Emerald Gem—Small to medium size; skin deep green, generally smooth; flesh thick, rich salmon, not surpassed in richness and flavor. But few varieties are so nearly certain to produce uniformly good melons.

Per pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c

Osage, or Miller's Cream—The fruits are larger than those of the Emerald Gem; nearly round in form, but having the same distinct dark green skin, with lighter bands between the ribs, and thick, firm, orange flesh of fine quality. Per pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; per lb., \$1.25, postpaid.

"Paul Rose," or Petoskey—The fruits are nearly round, or slightly oval, rather larger than Netted Gem, ribbed and heavily netted; of a light green or faint golden hue when fully ripe. The flesh is thick, of rich, deep orange color, and ripens close down to the rind, with small seed cavity. The bright salmon flesh is much firmer than that of our Emerald Gem. It is an excellent shipping variety of handsome appearance and good quality. Per pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; per lb., \$1.00, by mail, postpaid.

Gold-Lined Rocky Ford—Of a fine uniform shape and without ribs; slightly oval; meat thick, light green, with a light golden yellow rim. Flesh very sweet and spicy. There is no better melon than this.

Per pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.25

Banana Muskmelon

A long yellow-fleshed melon. A very interesting and at the same time a splendid melon. The melon is from 20 to 28 inches long and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best. Plant some Banana Melons for home use and county fair exhibits. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25.

MUSK MELON—GREEN FLESHED

Extra Early Hackensack—This is a selection of the popular Hackensack, ripening fully ten days earlier. Melons of good size, heavily-ribbed and netted; thick, light green flesh of fine flavor.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

Montreal Nutmeg—This is a very large-fruited variety of superior quality. The large fruits are nearly round in form, slightly flattened at the ends, with very large, broad, heavy ribs. Dark-green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. This is one of the handsomest varieties to grow for exhibition.

Per pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00

Long Island Beauty—Fruits of large size, well-flattened, heavily ribbed and netted. Of very handsome appearance and fine quality. Most highly recommended; it ripens as early and is similar to Hackensack, but superior. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.50

Early Jenny Lind—This is a leading market variety by reason of its extremely early ripening and prolific bearing qualities. The melons are of small size, quite flattened in form, heavily ribbed and netted.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

Prolific Nutmeg—Fruits round, seven inches in diameter, slightly flattened at the ends. Well-ribbed and heavily netted.

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

Burpee's Netted Gem, or "Rockyford"—The most popular and finest green-fleshed Musk melon. The vines are of strong, healthy growth, comparatively short, and branch freely, setting a large number of fruits close the hill. The melons are even and regular in size and form, nearly round, or slightly oval. They are always finely netted, and the skin is of a light golden hue when fully ripened. The flesh is light green in color, melting and luscious in flavor, and ripens close to the skin, so that there is but a very thin rind in a well-grown fruit.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

Burpee's Bay View—Oblong fruits, twelve to fifteen inches in length. Vines strong, vigorous and productive. Fruits have broad, heavy ribs, well-netted with light-green flesh of good flavor.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

Burpee's Champion Market—A splendid variety of the netted Gem type, producing fruits nearly three times as large. They are regular in form, nearly round, averaging eight inches in diameter, with well netted ribs; thick, light-green flesh, with very thin rind and true Netted Gem flavor.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

Acme, or Baltimore—Fruits of medium size, oval in form, with a slight neck at the stem end. Well-ribbed and heavily netted; skin turning to a golden tint when ripened. Flesh firm and of superior quality.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

CASABAS

The Casaba is now at full zenith of popularity. Previously it was grown as a late melon to mature after the cantaloupe season. As a late melon its popularity was confined to a limited section near the Coast of Southern California. But it is now demonstrated that it can be grown in all semi-arid sections side by side with the early cantaloupes and watermelons. The carloads of large perfect Casabas of the Golden Beauty variety that were shipped from the San Joaquin Valley during the past two seasons, have proven the value of the Casaba as an early melon and good shipper equal to the watermelon and cantaloupe.

GOLDEN BEAUTY

A. & M. SANTA CLAUS

WINTER PINEAPPLE

Golden Beauty—One of the best casabas. It is a variety grown extensively for shipment from Southern California. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.

Per pkt. 5c; oz. 20c; ¼ lb. 40c; lb. \$2.50

Hybrid Casaba—This excellent Casaba grows to a large size. Flesh nearly three inches thick and of excellent flavor. Many of you who have visited the market during the months of October and November must have noticed the melon and the fancy prices paid for it. Only a few growers had it in large quantities. It is a rampant grower, a large yielder, and bears up until killed by frost. The best time to plant is in June and July, and do not market them until well ripened. The increased demand for this melon will insure it a profitable late crop.

Per pkt., 5c; oz., 20c; lb., \$2.00, postpaid

HONEY DEW MELON

Unlike the ordinary muskmelon or cantaloupe both in appearance and flavor, the outer skin being smooth, hard and nearly white, being really of the Casawba type. The melons are large, round to oval in shape, extremely thick meated and have a very small seed cavity; flesh very solid and of a rich honey-like flavor, luscious and juicy, much more so than any variety of muskmelon.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00

Santa Claus—The name is appropriate to this melon. You can send nothing more delicious to your Eastern friends for a Christmas present. The rind has the appearance of the mottled Pomegranate Muskmelon. The shell is hard and about one-eighth of an inch thick. There is no seed cavity. The seeds are embedded in a jelly-like pulp. The light green flesh is absolutely stringless. Its flavor excels anything in the melon line; it is in a class by itself. It is beyond description. To taste it is to realize the truth of this statement.

Per pkt. 5c; oz. 20c; lb. \$2.50, postpaid

Winter Pineapple—This is the first of the Casabas introduced into America, and is the parent of a number of hybrids all of which excel it in excellence of flavor, but none equal it in keeping qualities.

Per pkt. 5c; oz. 25c; lb. \$2.50, postpaid

WATER MELONS

Culture—In order to get good Water Melons, it is essential that the plants get a good start, and to this end it is important to prepare hills about eight feet apart by thoroughly working into the soil an abundance of well-rotted manure—hen manure, sheep guano, guano, or other forms rich in nitrogen, being most desirable. Over this highly-manured soil put an inch or more of fresh earth and plant the seed on this, covering it about an inch in depth. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. When the plants have formed the first pair of rough leaves, they should be thinned, so as to leave two or three of the strongest and best to each hill. Frequent watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests.

Burpee's Fordhook Early—Without a rival. This is the earliest large-fruited melon in cultivation—when grown from the genuine stock. Planted in hills six feet apart and without any special cultivation, producing a good number of the large melons before any other varieties had ripened, with the exception only of the small Cole's Early. These fruits are of good size, rather short and blocky in form, with large diameter. Skin dark green occasionally with faint stripes of lighter green. Flesh bright red, crisp, sweet and of splendid quality. Rind quite thin, but skin tough, making an excellent shipping variety.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid
By express, \$1.15 per lb.

Cuban Queen—The melons are of large size and oblong in form. Skin beautifully striped in dark and light green. Rind quite thin, but tough enough for shipping. Flesh bright red, firm and of luscious quality.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 85c

Cole's Early—Extra early but small; skin green, striped white.

Per oz. 10c; ¼ lb. 30c; lb. \$1.00

Dixie—A cross of Kolb Gem and old-fashioned Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities, and fully equaling the latter in quality.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

Halbert Honey—A variety somewhat similar to Kleckley Sweets—of much darker color.

Per pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00

Baby-Delight—Is a "real" watermelon, of luscious sweetness but diminutive size. The ripe melons weigh only from 3 to 6 pounds each. The skin is lustrous dark green, the rind thin but strong. The rich carmine crystalline flesh is always solid and of exceptionally sweet flavor.

Baby-Delight is, without doubt, one of the most prolific watermelons. It is a fine home garden variety of extra-early maturity.

Per pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50, postpaid

Kleckley's Sweets—This most excellent variety is unsurpassed for home use or near markets. The vines are vigorous and productive. The fruits are medium to large, oblong, tapering slightly towards the stem end, dark green, often showing fine russetting. The flesh is very bright, rich red and is exceedingly sweet. The variety is so crisp and tender that it will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife. Seed white.

Per pkt. 5c; oz. 15c; 2 oz. 20c; ¼ lb. 30c; lb. \$1.00

Tom Watson—A large, long melon similar in shape, color and splendid quality to Monte Cristo but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Wherever grown in the South it has become very popular as a shipping sort. There has been an increasing demand of late for a better quality of shipping melon and this demand has been met in a most exceptional degree by the Tom Watson.

Per pkt. 10c; oz. 15c; 2 oz. 20c; ¼ lb. 30c; lb. \$1.00

Burpee's Hungarian Honey—Small round; rich red flesh.

Per oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

Ice Cream, or "Peerless"—An oblong melon, with dark green skin. Flesh sweet; deep pink.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

Kolb's Gem—Oval shape and of a delicious, sugary flavor, bright red flesh, firm and solid. One of the most productive and best keeping melons. Good for marketing.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

Sweetheart—Oval, light green mottled. Flesh bright red, very firm, yet tender. A fine shipper.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Citron—The fruits are medium sized, uniformly round and are used exclusively for preserves or pickles. The color is dark green, distinctly striped and marbled with light green. The flesh is white and solid but is not at all suitable for eating raw. Seed red. The fruits mature late in the fall and in this condition can be kept for a long time.

Per pkt. 5c; oz. 15c; 2 oz. 20c; ¼ lb. 30c; lb. \$1.00

MARKET-GARDENERS are requested to send us a list of the vegetable seeds they intend purchasing. We shall be glad to submit low prices on them. Market-gardeners who purchase seed in large quantities are entitled to a reduction in accordance with the quantity bought. Write us fully and we shall be very glad to reply and give prices.

MUSHROOM

Cultural directions, to be of any value, would be too lengthy to give here, but we will forward full directions for the planting and culture of spawn with each order.

No. 7 BROWN (Bohemian)—A good producer of heavy mushrooms.

No. 8 CREAM WHITE—A mammoth strain.

No. 9 WHITE (Alaska)—Popular market variety.

Pure Culture Mushroom Spawn with culture directions. Brick (about 1¼ lbs.), postpaid, 40c. Write for price in quantity.

MUSTARD

Mustard is not only used as a condiment, but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one-half inch deep. For succession, sow every few weeks until Autumn. Water freely.

Chinese—The leaves are twice the size of the ordinary white mustard, and the flavor is sweet and pungent. Per pkt. 5c; oz. 20c; ¼ lb. 35c; lb. \$1.00, postpaid

White English—Leaves comparatively smooth and deeply cut; color medium dark green. The plant is upright in growth, inclined to branch as it approaches early maturity and soon bolts to seed.

Per pkt. 5c; 2 oz. 10c; ¼ lb. 15c; lb. 35c

Fordhook Fancy—Plants are of vigorous growth, and have beautiful dark green leaves which curve outward like fine ostrich plumes. It stands well, even during the hot summer months.

Per pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.25, postpaid

OKRA or GUMBO

Okra, or Gumbo—Cultivated for its young seed pods which are used in soups, or stewed and served like asparagus. It is highly esteemed in the south. Plant in hills about four feet apart, putting six to eight seeds in a hill, and after the plants are well started cut out all but two. The dwarf sorts can be planted much closer in hills, two to three feet apart, or in drills two feet apart, thinning the plants to about one foot apart in the row. Gather the pods when quite green and about an inch and one-half long.

Perkin's Mammoth Long Pod—The plant is dwarf growing even in size, and productive, maturing pods earlier than most sorts. The pods are long, slender, deep green and remain tender much longer than most sorts.

Per pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 35c; lb. \$1.00

Dwarf White—The longest podded variety; the plants are two feet high and very productive. Produce pods long, greenish white, very thick and fleshy.

Per pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 35c; lb. \$1.00

ONION SETS

NOTE.—Onion sets subject to market changes; write for quantity price.

BOTTOM ONION SETS

These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about ½-inch in diameter), thus obtained are planted out and are ready in a short time to pull as green onions for the table. Brown or yellow. Lb. 20c, postpaid

POTATO ONION

Valuable for bunching or an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild white flesh. It is the earliest, most vigorous in growth and easiest to cultivate of all onions from sets. For the family garden, whether pulled green or as dry bulbs, they are most excellent. Per lb. 25c, postpaid.

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 size bulbs. Light brown skin, mild, white flesh.

Per lb. 25c, postpaid

Ostrich Plume—Leaves dark green, beautifully curled and plume-like. Very vigorous and productive, stands well. Of distinctive flavor; superior to spinach for greens and excellent for salad.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.50

"Elephant Ear"—Each plant produces numerous extra large leaves of good substance and of most appetizing pungency. It succeeds well also from spring plantings, but does not make leaves so large during the warm summer as it does in the cooler fall or winter months. Grown in rich soil, the leaves attain eighteen inches to two feet in length; they are of a light-green color, with large white ribs or leaf-stalk.

Per pkt. 5c; oz. 10c

Southern Giant Curled—Leaves light green, frilled and much crimped at edge. Highly esteemed in the South for its vigorous growth and good quality.

Per pkt. 5c; oz. 10c; 2 ozs. 25c; ¼ lb. 20c; per lb. 65c

STIMUGERM

Legume Inoculation

Makes a
Wonder Garden

PLANT STIMULANT TABLET

OREGON YELLOW DANVERS

The Old Reliable

The reputation of this great onion goes forward unchallenged year after year as the most reliable yellow onion grown. There is no onion whose character and worth can be more accurately measured by the confidence it has instilled in the onion seed buying than the Oregon Yellow Danvers. It has no enemies as it is conceded to be the best for the Northwest. It stands paramount on its great keeping quality and is more extensively grown than any other onion in the northwest. With such pronounced merits as earliness, productiveness, excellent table quality, fine keeper, enormous yielder, it could hardly be other than popular.

Our seed is grown especially 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. 25c; ¼ lb. 60c; lb. \$2.00

AUSTRALIAN BROWN

Quick to mature; a good keeper; solid and heavy; an excellent onion for shipping. The skin is a light brown. Its solidity gives it great weight and a sack weighs several pounds heavier than a sack of other varieties. The onions are thin-necked and ripen very early in all soils. As the plant makes a very quick growth it matures the bulbs before the hot, dry summer weather sets in, and this in connection with the exceptional keeping qualities makes it a most profitable variety.

Per pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$1.75, postpaid

CRYSTAL WHITE WAX

This variety is rapidly becoming the most popular of the Bermuda onions. It is a clear waxy white onion, and has the delightful mild flavor of the Yellow Bermuda. Like the Yellow Bermuda, it is of a somewhat flat shape, the onions sometimes grow to the size of saucers. This variety sells on the market at from 25c to 50c per crate more than the Yellow Bermuda, and in Portland it has largely replaced all other onions during spring and early summer. Is very firm and solid, and is the mildest and earliest of all onions. It does not keep as well as the Yellow Bermuda; however, it is very popular. You can pull green onions sixty days after planting the seed, and matures in 115 days. Prices: Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00, postpaid.

PRIZETAKER

A large Yellow Globe Onion of finest flavor, handsome shape and enormous size, many single onions having been raised to weigh three pounds or over. The Prizetaker grows always to a perfect globe shape with a bright straw-colored skin.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

ONIONS

Cultivation—Give the onions the first hoeing just skimming the ground between the rows as soon as they can be seen in the row. Hoe again in a few days, this time close up to the plants, after which weeding must be begun. This operation requires to be carefully and thoroughly done. The weeder must work on his knees astride the row, stirring the earth around the plants, in order to destroy any weeds that have just started. At this weeding or the next, according to the size of the plants, the rows should be thinned, leaving from eight to twelve plants to the foot. In ten days or two weeks they will require another hoeing and weeding similar to the last and two weeks later give them still another hoeing, and if necessary another weeding. If the work has been thoroughly done at the proper time, the crop will not require further care until ready to gather.

Gathering—As soon as the tops die and fall, the bulb should be gathered into windrows. If the weather is fine they will need no attention while curing, but if it is not they will need to be stirred by simply moving them slightly along the row. Cut off the tops when perfectly dry, about half an inch from the bulb and then after a few days of bright weather the onions will be fit to store for winter.

RED WEATHERSFIELD

This is a standard variety planted all over America. It is of large size, very productive, and an excellent keeper. The color is deep purplish-red, and the flesh is white, moderately grained, and very firm. It is a mild onion, and has retained its popularity through a large number of years. You can pull green onions in 63 days, and matures in 150 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.00, postpaid

SWEET SPANISH

We recommend this new variety of onion very highly, and believe that it will be more than pleasing to those who plant it. It is a globe-shaped onion of bright yellow color, and mild in flavor, and grows a little larger than the Prizetaker. It is a good yielder and a splendid keeper. This is a fine variety for home or market use. Green onions can be pulled 65 days after planting the seed, and it matures in 145 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

SOUTHPORT WHITE GLOBE

This is a most desirable medium early, or main crop variety. This variety yields abundantly, producing medium to large, handsome and fine-shaped clear white bulbs. The flesh is firm, fine-grained, quite mild in flavor, and is very attractive. The bulbs are globe-shaped, keep well, and are desirable for shipping. This is a good variety for home garden or market. You can pull green onions 65 days after planting the seed, and it matures in 140 days.

Prices: Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50, postpaid

WHITE PORTUGAL, OR SILVERSKIN

The best known and most largely used white onion. Is flat on the bottom and thick toward the top; very hard and firm. An excellent keeper. Is largely used for white onion sets as well as for bulbs for the best market trade and also for pickles.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.50

GRANDPA'S CONGLOMERATION ONION SEED MIXTURE

Turn back in thought to the days of your youth, when Grandpa and Grandma planted the vegetable garden. There was always a large corner in which a mixture of different kinds of onion seeds was planted on the theory that if one sort did not do well the other sort would, and in that way it happened always that there never was a shortage of onions. If the good housewife wished a mild white for salads, it was always found therein; if she wished a more pungent one, that was taken. If she wished a brown or yellow or red, or no matter what color, there they were, and with this in view we have arranged "Grandpa's Conglomeration Onion Mixture"; it contains all colors, shapes and sizes. A package of seed is sufficient to grow one or two bushels, an ounce from three to five bushels, and a pound is safe for 60 to 100 bushels or more.

Price: Big pkt. 10c; oz. 15c

PARSLEY

Parsley succeeds the best on rich, mellow soil. The seed is even slower than parsnip in germinating and should be sown as early as possible in the spring, in drills one to two feet apart and when the plants are well up thin to one foot in the row. When the plants are about three inches high cut off the leaves; the plant will then start a new growth of leaves which will be brighter and better curled and later, if these turn dull or brown they can be cut in the same way; every cutting will result in improvement.

Plain, or Single—Plain leaves, excellent flavor.

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

Extra Curled Dwarf, or Emerald—The moss-like leaves, of a handsome bright green color, are finely curled. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c, postpaid

Turnip-Rooted, or Hamburg—The edible portion is the fleshy root, which resembles a small parsnip, and is esteemed for flavoring soups, stews, etc.

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

PEAS

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas furthermore such soil is often the cause of early sorts maturing unevenly.

Sow as early as possible a few of some early variety in warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity.

The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil. When the plants are five or six inches high fill the trench level with the surface. This will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches they will not germinate or grow well.

The wrinkled varieties are more sensitive to cold wet weather than the smooth seeded sorts but are of superior quality. All varieties growing more than one and one-half feet do better if staked up or brushed when four to six inches high. This support is usually given by sharpened branches of trees set between the double rows. The crop should be gathered as fast as it is fit for use. If even a few pods begin to ripen, not only will new pods cease to form, but those partly advanced will stop growing.

THE BIG FOUR

BLUE BANTAM

Bears abundantly long, handsome pods fully as large and equally as early as Gradus, while the vines require no staking! Is unequaled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average fifteen inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods, generally borne singly, measure four to four and one-half inches long and are tightly packed with eight to ten extra large, deep bluish-green peas. These peas are not only large in size, but of most luscious flavor. The pods are ready to pick as early as American Wonder, while double the size; in fact, they average fully as large as Gradus! If sown thinly, say four inches between the seeds in the row, they will astound even experienced gardeners. Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

TELEPHONE

A tall-growing, late sort, three and a half to four feet in height, having pods of a very large size, containing six to seven large peas of delicious flavor. Continues in bearing for quite a long time.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

One pound each of the above peas, \$1.00, postpaid

PARSNIPS

Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to

make the roots a little coarse and ill shaped. As the seed is sometimes slow to germinate, it should be sown as early as possible in drills two and one-half feet apart, cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to three or four to the foot.

GUERNSEY

Guernsey—(Improved Half-Long)—The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gathered. The roots are very smooth; the flesh is fine grained and of most excellent quality. Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.00, postpaid.

LONG SMOOTH, or HOLLOW CROWN

Long Smooth, or Hollow Crown—A great cropper, tender, sugary, and considered the best for general cultivation. Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.00, postpaid.

LITTLE MARVEL

We are sure that as soon as our customers become acquainted with Little Marvel they will drop both Little Gem and Nott's Excelsior, popular as these two varieties are today. The vines, of dwarf even growth, average fifteen inches in height and are heavily set with fine pods, frequently borne in pairs. The pods average two and one-half inches in length, are square at the bottom and well filled with six to seven quite large, deep green peas. The peas are ready for the table fully as early as American Wonder or Nott's Excelsior, while the pods are larger and the vines produce a much heavier crop. All who desire a fine early crop of the choicest wrinkled peas will be delighted with Little Marvel.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

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. These peas are planted by market gardeners around the vicinity of Portland more than any other kind.

Pkt. 10c; lb. 30c; 5 lbs. \$1.00, postpaid

PEAS—Continued

Alaska—Also called "Earliest of All"! The vines grow from 20 to 30 inches in height, bearing well-filled, medium-sized pods. Matures practically the entire crop all at one time. Most popular first-early pea for canning.

Per pkt. 10c; ½ lb. 15c; lb. 30c; 5 lbs. \$1.00

Alderman—Large podded, fine flavor. A splendid new large podded main crop pea, growing about five feet high. The pods are larger than the Telephone, are dark green, and are well filled with large wrinkled peas of fine flavor.

Pkt. 10c; lb. 30c, postpaid

American Wonder—Of extremely dwarf growth; only eight to ten inches high and nearly as early as Alaska. The pods are filled with luscious, large, wrinkled peas of first-class quality.

Per pkt. 10c; lb. 30c, postpaid

Blass' Everbearing—The vines are stout, of medium height, about two and one-half to three feet, bearing at the top six to ten good sized pods, about two and one-half to three inches long. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, tender, of superior flavor and preferred by many to any other sort.

Pkt. 10c; lb. 35c; 2 lbs. 60c; 5 lbs. \$1.25, postpaid

Champion of England—A standard, very productive, main crop variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are tall, about four to five feet high. The peas are large, about three inches long. The seed is light green and wrinkled. We consider this variety one of the best of its season, either for the home garden or for market gardening use.

Pkt. 10c; lb. 35c; 2 lbs. 60c; 5 lbs. \$1.25, postpaid

"Dwarf Telephone"—The vines, though growing only about eighteen inches in height, are very stout, and generally bear a good crop of large, well-filled pods. The pods average five inches in length, containing seven to nine large peas of a light green color, which are tender and sweet.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

Improved Stratagem—Vines of strong growth, with large foliage, but only eighteen inches in height, and do not need any support. Pods of large size, well filled with large dark green peas of rich, sweet flavor. One of the very finest.

Per pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

LAXTONIAN

A new, early, dwarf, robust, large podded pea of superior excellence, often referred to as "Dwarf Gradus," and is said to surpass "Gradus" in yield and quality, with the added advantage of dwarfer growth, averaging 16 inches. The large pods are well filled, holding 8 to 10 peas. "Laxtonian" is so highly recommended that you should give it a trial.

Per pkt. 10c; lb. 30, postpaid

NOTT'S EXCELSIOR

The peas are closely packed in the pod. A very fine variety of compact dwarf growth, with pods one-third larger than those of the American Wonder, and maturing almost equally as early. The pods average three inches in length, and are well filled to the squared ends with large peas of unusually sweet flavor.

Per pkt. 10c; lb. 30c, postpaid

THOMAS LAXTON

Extra Early and Fine Quality

Thomas Laxton Peas are very similar to Gradus in every way except the shape of the pods, the ends of which are square, and the pods and vines are a darker green. It is nearly or quite as early as Gradus, and the large wrinkled, dark green peas are sweet, tender, delicious, and unexcelled in quality by any of the late varieties. The vines grow about three feet high.

Pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

WORLD'S RECORD

An Excellent Early Wrinkled Variety

World's Record is an English variety which has proved to be perfectly adapted to the Northwest. Our seed has been grown in this locality for several seasons, and is thoroughly acclimated. The vines are semi-dwarf, growing about three feet high, and the yield, size and quality of the peas is wonderful considering its extreme earliness. The pods are large, dark green, of the Gradus type, and are filled with eight or ten large wrinkled peas, sweet and of fine flavor.

Pkt. 10c; lb. 30c; 5 lbs. \$1.25, postpaid

SWISS

A flat or 3-cornered variety of excellent quality for soup. Insects do not trouble this variety.

Pkt. 10c; lb. 25c, postpaid

SUGAR PEAS

MAMMOTH MELTING SUGAR

This is one of the best-known of all edible-podded peas. The vines grow luxuriantly and reach a height of 6 to 7 feet. The pods are borne in great profusion all over the vine and they should be gathered when the seeds are just beginning to form. They are broken in pieces the same as string beans and make a delicious and palatable dish.

Per pkt. 10c; ½ lb. 20c; lb. 35c, postpaid

GIANT LUSCIOUS EDIBLE POD

The pods, which are five to six inches long, are very fleshy, curved or scimitar shaped and of light green color. When young the pods are very tender and free from strings and when cooked are of superior quality and delicious flavor. The vines average about four feet high and are vigorous and productive.

Pkt. 10c; lb. 35c, postpaid

DWARF GRAY SUGAR

Grows 18 inches high and produces a heavy crop of small flat pods, 3 inches long. The pods are gathered, broken and cooked like string beans when the peas begin to develop in the pod.

Per pkt. 10c; ½ lb. 20c; lb. 30c, postpaid

Dwarf White Sugar, same price as gray.

PEANUT CULTURE

As the Peanut is a tender, warmth-loving plant the seed should not be planted until the soil has become warm and the Maple trees are out in full leaf. They succeed best in light, easily worked soil but can be grown in heavy, well-drained ground if kept well cultivated. When planting remove the shells, planting the kernels one in a place fifteen to twenty inches apart in the row. The cultivation is the same as for Bush Beans and the soil should be frequently hoed or cultivated to promote strong, rapid growth until the plants commence to flower. The flowers appear at the base of the stalk and when they appear loose earth should be hilled up around the stalks so that the nuts may bury themselves in the soil. When the foliage is touched by frost, lift or pull up the plants with the nuts attached and hang up to dry in a cool, airy room or shed.

MAMMOTH

PEANUTS

Mammoth Bush (See illustration)—The plants produce a large quantity of nuts, adapted for culture in our northern climate, especially in light or sandy soils.

Pkt. (10 pods) 10c; ½ lb. 30c; lb. 55c; 2 lbs. \$1.00

Spanish—This is an excellent forage plant for light land in hot, dry seasons. The tops are cut and cured for hay just before frost. The plants also set a large crop of the small nuts, which make an excellent fattening food for hogs.

Oz. pkt. 10c; ½ lb. 20c; lb. 30c; 2 lbs. 55c; 5 lbs. \$1.25

PEPPER

Peppers are used very extensively as a condiment. In Mexico the hot varieties are eaten raw as we would eat radishes, but the greatest use is for seasoning other dishes. The large, thick-fleshed, sweet varieties are eaten more extensively farther north and are served in various ways, green or ripe, with vinegar and salt, like tomato salad, or made into mangoes, by cutting one side, removing seeds and filling with chow chow pickles.

The culture of peppers is the same as for egg plant and the plants need quite as much heat to perfect them. Guano, hen dung, or any other bird manure hoed into the surface soil when the plants are about six inches high, will wonderfully increase the product and also improve the quality of the fruit.

Pimiento—Perfection—This is a sweet Pepper—one which you will enjoy eating in salad, either fresh or canned. Gardeners are planting Pimiento largely. Quite large, top shaped, very thick flesh and wonderful mild flavor.

Per pkt. 10c; oz. 60c, postpaid

"NEAPOLITAN" Large-Early

The strong vigorous plants grow two feet high by 18 inches across; they are completely laden with large handsome fruits and bear continuously until frost. Single plants carry from thirty-five to fifty marketable fruits at one time! The peppers grow upright until they become so heavy that their own weight turns them down. The skin and flesh are bright red; they are thick meaty, sweet and "mild as an apple"; They carry well and keep in prime condition a long time. So unusually productive is this variety that twelve plants will furnish an ample supply for a family throughout the season. Per pkt. 10c; oz. 30c; ¼ lb. 55c.

OTHER PEPPER SORTS

Bull Nose—Large blocky fruit.

Cayenne—Long red; very hot.

Tabasco—Hottest of all.

Per pkt. 10c; ½ oz. 35c; oz. 60c; ¼ lb. \$1.75

Red Chili—Good hot pickling.

Per pkt. 10c; ½ oz. 35c; oz. 50c; ¼ lb. \$1.60

MIXED PEPPERS

Mixed Peppers—A great many varieties mixed. Space will not permit to name them all.

Pkt. 10c; oz. 40c; ¼ lb., \$1.00, postpaid

PEPPER PLANTS—See page 34

Chinese Giant—This standard variety is larger than "Ruby King." It is very prolific for so large a pepper. The productiveness may be increased by pinching off the first or "King blossoms." The fruit grows 4 to 5 inches broad on top and of equal length, and quite uniform in size; the flesh is unusually thick, mild flavor and makes a very fine salad sliced and served like tomatoes. The color is green turning to glossy scarlet when ripe.

Per pkt. 10c; ½ oz. 40c; oz. 75c; ¼ lb. \$2.00

**SMALL
SUGAR**

SMALL SUGAR

Fruits of small size, averaging about ten inches in diameter, of excellent keeping qualities, flattened or slightly ribbed. Skin deep orange-yellow, flesh sweet.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 20c; lb. \$1.00, postpaid

"BIG TOM" or IMPROVED LARGE FIELD

Vines of strong, vigorous growth and wonderfully prolific. Fruits will average fifteen to twenty inches in diameter; round or slightly oval in form. Smooth, hard, reddish-orange skin, slightly ribbed, with rich orange-yellow flesh. Frequently grown among corn to make a crop of pumpkins for feeding to dairy stock.

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

GENUINE MAMMOTH, "JUMBO" or "KING OF THE MAMMOTHs"

This is the very best genuine strain of the true Mammoth Pumpkin. Fruits grow to enormous size, sometimes reaching two feet or more in diameter, and from one hundred to two hundred pounds in weight. Salmon-orange skin, very thick, bright-yellow flesh, which is fine-grained, tender and of excellent quality for pies. To raise the largest fruits, vines should be allowed ample space in which to grow—only one plant should be allowed to grow in a hill, and only the best fruit left on the vine.

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

WHITE CUSHAW

A popular crooked-neck variety with a hard creamy-white shell. Fruits two feet in length, with long, solidly-meaty neck; seeds are all located in the lower bulb-like end. Thick flesh of fine quality.

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

PUMPKIN SEED MIXED—All varieties mixed; very popular.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. 60c, postpaid

PUMPKINS

Pumpkins are not so particular in regard to soils as melons or cucumbers, but in other respects are cultivated the same, though on a larger scale. They are generally raised between hills of corn, but may be planted with success in fields by themselves. The pumpkin more properly belongs to the farm than the garden, especially as it really mixes with and injures the quality of the finer squash.

MAMMOTH TOURS

A productive French variety; grows to an enormous size. Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. \$1.00.

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

LARGE CHEESE

Large, round, flattened fruits, with creamy-buff skin; averages two feet in diameter. An excellent keeper; it has thick flesh of extra fine quality.

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

JAPANESE

Similar in size and form to the well-known Cushaw, but the skin is a deep green, with dark stripes, turning to a rich golden-yellow. Fruits mature early, the large neck is solidly meaty, and seeds are marked with curious indentations, resembling the characters of the Chinese alphabet. Flesh deep yellow, of fine quality.

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

BURPEE'S QUAKER PIE

A most prolific variety. The fruits are broad pear-shaped to slightly oval in form. Rich creamy-buff skin, flesh very fine-grained and rich in flavor. Stored in a warm dry place, it is an excellent keeper.

Per pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25, postpaid

BURPEE'S GOLDEN OBLONG

Very hardy and productive, pumpkins fifteen to twenty inches in length and eight to ten inches in diameter. Skin of a rich golden orange, thin but tough, making it almost as good a keeper for Winter as the hard-shelled squashes. Flesh is a light golden-yellow, of very rich, fine quality.

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

LARGE YELLOW or CONNECTICUT FIELD

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

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

SEED POTATOES

Write for special prices for larger quantities than listed

DATE OF SHIPMENT

Potatoes will not be shipped until in our judgment there will be no danger from freezing. Price, 5 lbs. 60c; 10 lbs. \$1.00, postpaid.

"EARLIEST OF ALL" and AMERICAN WONDER

These prices are for 1st, 2nd and 3rd zone only.

SPARKLING RADISHES

For forcing, sow in hotbeds or under glass in rich, sandy soil, made perfectly level. Scatter evenly over the surface from sixty to one hundred and fifty seeds to the square foot and cover with one-half inch of soil sifted on, and attend carefully to the watering and airing. If the bed is a good one, the whole crop can be marketed in twenty-one to forty days after planting. For open ground culture, sow on rich, sandy soil as soon as it is fit to work in the spring, in drills twelve inches apart and thin out the plants, if necessary, to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from one week to ten days apart will keep up a supply. After the hot weather of summer begins, it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy so quickly as the early sorts. Radishes are subject to root maggots, which make them useless for culinary purposes. We know of no certain remedy for this pest. We have found that the best preventive measures are to avoid the use of rank manure, and not to sow on ground where radishes, turnips or cabbages were grown the year previous. We have been very careful to secure the very best seed possible, and there is none sold under other names which is better than that of the varieties we offer.

SAXA, THE EARLIEST RADISH ON EARTH

Saxa is a scarlet globe radish developed to the highest point as to earliness, uniform shape and high eating quality. Perfectly globe shaped with bright deep red skin and white solid flesh very mild in flavor. The tops are short. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

Crimson Giant—A fine, bright-red radish, growing quickly to a large size. It is especially fine for bunching for early market from plantings in the open ground, being ready to market in from twenty-five to thirty days from time the seed is planted.

This radish is a deep globe in form; two inches in depth; one and one-half inches in diameter; with thin, tender skin of a deep crimson. The flesh is purest white, crisp, and of mild flavor. The roots are entirely free from the hollow center or pithy fibre of overgrown, small, extra early sorts, even when twice as large!

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

Sparkler (Scarlet Turnip White Tip) The Best for the scarlet top, a clear white base, and small, slender taproot. The juicy flesh is pure white in color and of agreeably snappy flavor. Scarlet Turnip White Tip is most popular and choice market. Our strain of this variety is extra fine.

FRENCH BREAKFAST

French Breakfast—Is a beautiful radish of true oblong or olive shape. The color of the skin is bright carmine, shading to clear white in the lower portion. The flesh is white, firm and crisp; juicy, mildly pungent, and tender. It is well adapted for forcing in the greenhouse and hotbed. One of the leading early varieties for market use or home growing.

Pkt. 5c; oz. 15c; 4 ozs. 45c; ½ lb. 70c; lb. \$1.25, postpaid

White "Icicle"—The finest and longest of the very early pure white varieties. Planted in spring and the radishes are 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 retains these qualities until the roots attain large size, so that it will remain in fine condition longer than any other first-early variety. It is excellently adapted for forcing purposes or successive sowing in the open ground, and gives a continuous supply of tender, crisp radishes throughout the season.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid

Early Long Scarlet Short Top—The finest strain of this most popular radish. The long, slender, handsomely-colored roots are most attractive in appearance. They are ready in about twenty-five days; crisp, brittle and of choicest quality. They reach a length of five to six inches, growing half out of the ground. Per pkt. 5c; oz. 10c; ¼ lb. 30c; per lb. \$1.00, postpaid.

West—Most attractive small round roots with bright scarlet top. The juicy flesh is pure white in color and of agreeably snappy flavor. West is most popular with many market gardeners who grow for an early sale. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. \$1.00

Long Black Spanish—Black skin, white flesh. Per pkt. 5c; oz. 15c; ¼ lb. 45c; per lb. \$1.50, postpaid.

Round Black Spanish—The favorite winter Rettig of the United States.

Per pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.50

White Strasburg—A fine solid summer radish of large size. Per oz. 10c, postpaid

California Mammoth White Winter—Long; of large size. Per pkt. 5c; oz. 10c; ¼ lb. 40c; lb. \$1.50, postpaid

Round Scarlet China—Extra fine round roots for winter.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid
Chinese Rose, or Scarlet China—Excellent; good keeper.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c, postpaid
New White Chinese—Best for autumn; of immense size.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

MIXED RADISH SEED

All kinds, colors and styles. A great variety; they will become ready for the table early, medium and late. You always have some that are just right, sweet and juicy. This mixture is for a small garden, where space is limited, and one sowing does for the whole season.

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

TRY THIS

Plant the little round radishes in the same row at the same time with beets or carrots. The radishes will break the way for the beets and carrots and will be ready for pulling by the time they need the room.

JAPANESE RADISHES DAIRY Rhubarb or Pie Plant

Radish—Nerima-Long

Nerima Long (Mikado)—“Nerima” is the name of the province of production, near Tokyo, Japan. This is a most valuable one, large and long (as long as 3 feet), and the end of it is round in form, snowy white and bright color and very fine test with sweet flavor. Nerima can be used in all styles of cooking and pickle; hardy and good keeper. We have had long experience of production of Nerima successfully and we are earnestly presenting this to all good farmers and garden lovers.

Per pkt. 5c; oz. 20c; ¼ lb. 60c, postpaid

Our Mail-Order Trade, growing steadily from year to year, is one result of your confidence in us and our confidence in you. No business can be truly successful unless the transactions are mutually profitable. Each season we strive to render better service.

Culture—Rhubarb succeeds best in deep, somewhat retentive soil, and the richer this is 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 into very highly-manured and deeply-stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed. Per pkt. 5c; oz. 15c; 2 oz. 25c; ¼ lb. 40c; lb. \$1.50. Rhubarb roots, by express, not prepaid, 10c each; \$1.00 per doz.; by mail, prepaid, 15c each; \$1.50 per doz.

WRITE FOR SPECIAL QUOTATIONS ON LARGE QUANTITIES

Salsify or Vegetable Oyster

Culture—It succeeds best in a light, well-enriched soil which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and illshaped. Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in spring, as they deteriorate rapidly after growth commences. Store a quantity for winter use in a pit or in a cellar packed in damp earth or sand.

SANDWICH ISLAND MAMMOTH

Sandwich Island Mammoth—This grows uniformly to an extra large size, averaging fully double the size and weight of the roots of the old variety. The roots, notwithstanding their extra large size, are of very superior quality and delicate in flavor.

Per pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.75, postpaid

SPINACH

Should be planted in very rich ground, the richer the better. Sow in drills twelve to eighteen inches apart, and begin thinning out the plants when the leaves are an inch wide. All should be cut before hot weather, or they will be tough and stringy. For early spring use sow early in autumn and protect the plants with a light covering of leaves or straw, or plant as soon as the land can be worked in the spring. Under favorable conditions, the leaves may be large enough for eating in eight weeks.

Victoria—The foliage is heavy, the broad, dark-green leaves being of the true Savoy appearance, and of the finest quality. It remains in prime condition from two to three weeks after nearly all other varieties have run to seed. Per pkt. 5c; oz. 10c; ¼ lb. 25c; per lb. 60c, postpaid.

Thick-Leaved Round—Produces large, thick dark-green leaves, somewhat crumpled.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

Norfolk Savoy-Leaved—(Blossomsdale)—The leaves are numerous, curled and wrinkled.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c, postpaid

Long Standing Prickly—This variety is an improved strain of the long standing type of spinach that matures a little later than the round seeded sorts. The plant is very large at maturity, very vigorous and hardy, and yields a large quantity of medium sized leaves, which are usually rounded at the end, quite thick and uniformly dark green. Seed prickly. It is usually planted in the fall, but is also well adapted for spring use. Sometimes called Prickly Winter.

Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c, postpaid
Long-Standing—Leaves large, thick, fleshy and crumpled. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c, postpaid

SPINACH

King of Denmark Spinach "Antvorskov"—This new variety of Spinach will eventually replace all others for spring planting, as it is very slow to go to seed, continuing to grow and hold its fine quality for weeks after all other sorts have gone to seed. It makes a very quick and low growth, producing an abundance of dark green leaves which are of large size and very much crumpled. It is ready for use as soon as other varieties of spinach and the leaves hold up remarkably well after being cut. The quality is excellent and we consider it one of the most valuable additions to the vegetable varieties that has been made in recent years, both for growing in the home garden and for market.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c; 5 lbs. \$2.25, postpaid

NEW ZEALAND SPINACH (Tetragonia Expansa)

While this is not a member of the Spinach family proper, it may well be classed as such, since it furnishes an abundance of delightful "greens" throughout the summer and right up to cold weather. Both the leaves and the stalks of the plant are very fleshy and extremely brittle and of the finest quality when cooked.

Do not sow seed until May 1st or when the soil is fairly warm, as it is susceptible to cold and will not germinate in cold soil. Plant in rows 3 ft. apart and thin the plants to stand 2 feet apart in the rows. Soak the seed before sowing.

Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.15

SQUASH

The Squash is one of the most nutritious and valuable of all garden vegetables. The summer varieties come to the table early in the season, while the winter sorts can be had in perfection from August until the summer varieties are again in condition. Few farmers appreciate the value of winter squash as food for stock. We think an acre of squash, costing no more to cultivate and much less to secure, will give usually as much food available for feeding stock as an acre of corn, and we strongly urge our readers to try a "patch" for this purpose.

Culture—Squash plants are very tender and sensitive to cold, and planting must be delayed until warm weather. The general methods 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 or ten. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash as the slightest injury will increase the liability to decay.

TABLE SQUASHES

MAMMOTH WHITE BUSH SCALLOP

The fruit is a beautiful, clear waxy-white, instead of the yellowish-white so often seen in the old Early White Bush Scallop, and is superior to that variety in size and beauty. The handsomest of the scalloped squashes. Per pkt. 5c, oz. 10c; 2 oz. 15c; ¼ lb. 25c; lb. 80c, postpaid.

GIANT CROOKNECK

This strain is equally as early as the common small-fruited variety, while the squashes grow to a much larger size, measuring from eighteen inches to two feet in length. Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid.

BURPEE'S BUSH FORDHOOK SQUASH

In this new true bush type the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type; they are also thicker-fleshed, and have a smaller seed cavity. They are unsurpassed for baking, frying, or making pies, while stored in a dry place they will keep in good condition until the following June.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

BURPEE'S FORDHOOK SQUASH

This is the most desirable running variety for either summer or winter use. The vines are of strong, vigorous growth and wonderfully productive. Fruits oblong in form, eight to ten inches in length, slightly rigid, smooth, thin, yellowish skin, flesh very thick and of a light straw-yellow. Either for baking like sweet potatoes or making pies during the winter, the quality is unsurpassed.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50, postpaid

Four Types of the Most Popular Winter Squash

RED, or GOLDEN HUBBARD

The highly warted skin is of rich orange-yellow, turning to deep salmon-red when ripened. It is equally as productive and fine in quality as the original Hubbard Squash.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

"KITCHENETTE" (Hubbard)

A small edition of the Hubbard Squash developed by inbreeding and introduced by the Minnesota Experiment Station. It was named "Kitchenette" because it is the smallest Hubbard. The squash average about 5 lbs. They run uniform in size and appearance. They are a glossy dark green, fully equal to any Hubbard for quality and keep as well in storage. In season they are two weeks earlier than the Hubbards and still yield in gross tonnage as well as the older varieties. There are many points of value in a small squash, especially for the small home garden. Introduced by Vaughn Seed Store.

Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00

TABLE QUEEN, "Des Moines"

Called Danish Squash on Portland Market

A comparatively new variety, which has attained great popularity in Iowa and Minnesota the last two years. Market gardeners have found it their best seller. The enthusiasm of customers entitles it to the place among Squashes accorded to "Golden Bantam" in Sweet Corn. In size Table Queen equals a fair sized husked coconut and a half, baked, serves one person amply. This avoids the waste often resulting from the use of larger varieties. The shell is unusually thin and it does not require over twenty minutes for baking or boiling. A good way to prepare is to cut in half, place a lump of butter in one half, top with the other and then bake whole. This Squash is ready before the Hubbards and yet stores equally well. The color is dark green changing to bright golden after picking and storing. The meat is dry and mealy. It yields enormously, a few hills furnishing an ample supply for a good sized family. Introduced by Vaughn Seed Store.

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

TRUE HUBBARD

This is the well-known winter squash, now grown so largely throughout the country. Vines of strong running growth; fruits large, olive-shaped, with dark-green skin and very rich flesh. An excellent keeper and of splendid quality. Our strain is extra fine—(see the illustration, from photograph, above).

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

WARTED HUBBARD

This is similar in size and quality to the well-known Hubbard, while the large, dark, olive-green fruits are supposed to be slightly more heavily-warted. Very handsome in appearance; an excellent keeper and of splendid quality.

Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

SQUASHES—Continued

MAMMOTH YELLOW BUSH

This is identical with the Mammoth White Bush, but the fruits are even larger and have a rich golden-orange skin as well as rich, creamy-yellow flesh.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. 85c, postpaid

BANANA

The squash grows from one to two feet in length. The skin varies from a bright yellow to a dark olive green. Flesh firm and solid, of beautiful orange-yellow and excellent quality. It keeps from one season until another. When quite young it is excellent to cook as a marrow.

Per pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.50, postpaid

"THE DELICIOUS"

The squashes weighing from five to ten pounds, vary both in color and form, but are uniformly delicious in flavor and splendid winter keepers. The dark-orange flesh is very thick and fine grained.

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

PIKE'S PEAK

Large oval fruits tapering at the blossom end. Skin dark olive-green; light golden flesh of excellent quality. Vines of strong growth and very productive.

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

DELICATA

A small-fruited variety, suitable for both summer and winter use; oblong, slightly ribbed, with orange-yellow skin, striped with dark-green. Flesh thick and solid. Cooks dry, and is of rich flavor.

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

BOSTON MARROW

A large fruited, hard-shelled sort, for winter use, having bright orange skin and deep orange flesh. Vines of strong running growth, very productive; fruits thickish-oval.

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

SUNFLOWER

Large Russian—This has very large single heads borne at the top of a single unbranched stalk usually, and with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows 10 feet high. Sow seed as soon as ground is fit for planting corn, in rows 3 to 4 feet apart and 10 inches apart in row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in any airy dry place where they will soon cure so as to be threshed out and cleaned. This variety will yield 1,000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament. (See Flower Seeds under Helianthus). Pkt. 5c; 1 oz. 10c; lb. 25c, postpaid; for larger quantities inquire for prices.

TOMATO

Culture—Tomatoes do best on light, warm, not over rich soil, and success depends upon securing a rapid, vigorous and unchecked growth during the early part of the season. Sow in hotbeds from six to eight weeks before they can be set out of doors, which is when danger from frost is past; when the plants have four leaves transplant into shallow boxes or cold frames, setting them four or five inches apart; give plenty of air, and endeavor to secure a vigorous but steady and healthy growth, so that at the time of setting in the open ground they will be strong and stocky. Even a slight check while the plants are small will materially diminish their productiveness. Set out of doors as soon as danger from frost is over, but before doing so harden off the plants by gradually exposing them to the night air, and by the withdrawal of water until the wood becomes hard and the leaves thick and of a dark-green color. Transplant carefully and cultivate well as long as the vines will permit.

To insure best results in respect to early ripening, as well as the amount and perfection of fruit, it is advisable to train up and trim the vines, especially if the patch is rather small. When the plants have been properly started and are six to ten inches high, they will begin to throw out branches. Select one of the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches, which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous, and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake, preferably two inches square which has been securely set in near the root of the vine. Fruit will set to almost any height desired if all side branches are kept trimmed off.

By such a method of training and trimming the fruits are kept clear from the ground, and with free access to sunlight they ripen much earlier; the vitality, otherwise exhausted in superfluous branches and leaves, is utilized in forming fruits of largest size, greatest perfection of shape and best quality.

SMALL FRUITED TOMATOES

The fruit of these are largely used for making fancy pickles, preserves, etc. The plants are extremely productive.

YELLOW PLUM

The fruits average two inches in length and one inch in diameter, of a bright lemon-yellow; are solid, fleshy, and of excellent flavor.

Per pkt. 5c; oz. 50c

YELLOW PEAR

Similar to the Yellow Plum, but the fruits have a slim neck or distinct pear shape.

Per pkt. 10c; oz. 50c

Small Fruited Tomatoes Mixed, 10c per package.

MAMMOTH WHALE

This is the "Jumbo" of the squash family, and creates great attention wherever grown or placed on exhibition. It is an extra large-fruited sort, quite distinct in form and appearance. The squashes grow from two and a half to three feet in length, with a slight neck at the stem end. The large seed end is swelled to a width of twelve to eighteen inches and slightly flattened, giving a most distinct appearance, which suggests the name—"Mammoth Whale." The skin is of a dark olive-green with slight stripes of a lighter tinge. The fruits frequently attain more than one hundred pounds in weight. Flesh firm and solid, of beautiful orange-yellow and excellent quality.

Per pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. \$1.25, postpaid

MAMMOTH CHILI

A very large-fruited variety. Under special cultivation the fruits attain a very great weight and are of attractive appearance. The skin is quite smooth, but with broad open netting, and of a rich orange-yellow. Flesh very thick, of a rich yellow coloring, fine-grained and sweet.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.25, postpaid

VEGETABLE MARROW

This is a most important vegetable in the English market, but little known in this country. The fruit is generally eaten when less than half grown, as the flesh is then very tender and marrowy.

Per pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.75, postpaid

MIXED SQUASH SEED

All sorts, shapes and colors. Very popular.

Per pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c, postpaid

RED PEAR-SHAPED

This is a leading favorite for preserves and also to make "tomato figs." The fruit is bright red, of true pear shape, and of rich distinct flavor. The larger plum-shaped red tomato, often sold under the same name, is not nearly equal to the true variety.

Per pkt. 10c; oz. 50c

STRAWBERRY, or HUSK TOMATO

Plants of low-spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk. Of very sweet flavor, highly esteemed for preserving or making pies. They are also excellent to eat raw as fruit.

Per pkt. 10c; oz. 50c

TOMATO

CHALK'S EARLY JEWEL

Chalk's Early Jewel—The largest, smoothest and finest-flavored extra early bright red tomato! Within a week to ten days as early as Spark's Earliana, it is even a heavier cropper, with tomatoes of larger size and sweeter flavor—produced continuously throughout the season. Of compact growth, the plants are fairly loaded with fruit. The tomatoes are uniformly of good size—seventy-five will fill five-eighths bushel basket. The large, handsome fruits are very solid and deep through, being almost round, or ball-shaped. Color brightest scarlet, ripening right up to the stem without any cracks or green core. The thick flesh is very solid, with comparatively few seeds, and of fine, sweet flavor; skin thin, but sufficiently strong to make it a good shipper. Per pkt. 5c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.00; per lb. \$4.00, postpaid.

BEEFSTEAK or PONDEROSA

In addition to its ponderous size it is also very solid, there being but few seeds. In color it is a beautiful crimson throughout. Although so large it is quite early. Per pkt. 5c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00, postpaid.

BEAUTY

A rather early, tall variety; very prolific, with good-sized smooth fruit of a purplish-carmine color.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25, postpaid.

BONNY BEST

An early, scarlet-fruited variety which has proven a success all over the country. It is from ten days to two weeks earlier than Chalk's Early Jewel, which it otherwise resembles. It is smooth, very even in size, very solid, and also very prolific. It is one of the best house-garden, canning and shipping tomatoes in existence.

Per pkt. 5c; oz. 25c; ¼ lb. \$1.00; lb. \$4.00, postpaid.

DWARF CHAMPION

This is sometimes sold as the "Tree Tomato." It is a second early or main crop, purplish pink variety, especially desirable where garden space is limited. The vines are about two feet high, vigorous, upright and compact. The fruits are medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Per pkt. 5c; oz. 50c; 2 oz. 85c; ¼ lb. \$1.40, lb. \$5.00, postpaid.

SPARK'S EARLIANA

Spark's Earliana—The plants are compact in growth with short, close-jointed branches, setting fruits very freely in the center. An entire plant may be covered with an ordinary bushel corn basket—yet so freely are the fruits set that each plant will produce a five-eighths bushel basket of tomatoes during the season of about four weeks, which covers the bearing period of the early plants.

The tomatoes are quite uniform in size and of smooth regular form, averaging three inches in diameter and from two to two and a half inches in depth; they are fleshy, solid and excellent for shipping purposes. Choice seed of this strain is extra selected and far superior to the stock usually sold. Per pkt. 5c; ½ oz. 25c; oz. 40c; 2 oz. 70c; ¼ lb. \$1.10; lb. \$4.00, postpaid.

GOLDEN QUEEN**The Finest of the Large Yellow Tomatoes**

The superior flavor of the yellow varieties is bringing them into favor as table fruit, and those who think of a yellow Tomato as the rough fruit of the old yellow sorts will be surprised at this smooth, beautiful fruit which though large, is as smooth and well-shaped as the best of the red varieties, and of a fine and distinct flavor.

Per pkt. 5c; oz. 50c; ¼ lb. \$1.75; lb. \$5.00, postpaid.

IMPROVED TROPHY

By careful breeding and selection, there has been produced a strain which compares favorably with any in smoothness and regularity of the fruit. Its large, strong growing, vigorous and exceptionally productive vines, large, very solid, smooth, fine flavored and beautiful, deep, rich red fruit will satisfy the most exacting. Per pkt. 5c; oz. 25c; 2 oz. 40c; ¼ lb. \$2.50, postpaid.

JOHN BAER

An early bright scarlet new tomato. It is similar to Bonny Best and Chalk's Early Jewel; prolific and of best quality.

Per pkt. 10c; oz. 50c; ¼ lb. \$1.50; lb. \$5.00, postpaid.

STONE

The best main crop variety for all purposes and largely used for canning. Vine tall and prolific. Fruit smooth, large and uniform. Color bright scarlet.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25, postpaid.

TOMATO PLANTS**EARLY JEWEL, EARLIANA, JOHN BAER,****YELLOW PEAR**

Prices	Postpaid	Not Prepaid
Doz.	100	100
1000	1000	1000
Transplanted	\$0.30	\$1.50
	\$1.25	\$10.00

Write for prices on "pulled" plants and large lots.

MIXED TOMATO SEED, ALL SORTS AND COLORS, PACKAGE 10c.

TURNIP

The value of Turnips and Ruta-bagas for feeding stock in fall and winter is not fully appreciated, as they are much liked by all kinds of stock, and serve to keep them in good condition. We earnestly recommend that farmers increase their sowings largely, for we are sure the crop will prove remunerative.

This wholesome and agreeable vegetable is most easily affected in its form and flavor by soil, climate and mode of culture. There are a great many varieties, but our list comprises the best for the garden or farm.

Sow in drills about two feet apart and half an inch deep, or sow broadcast, but in either case be sure to have the ground rich and freshly stirred. Thin early and keep free from weeds, so that the young plants will not be checked in growth. Any over-crowding will result in rough and poorly-flavored roots. It is important to get the spring and summer crop started very early, so that the turnips may have time to grow to sufficient size before hot weather causes them to become tough and bitter.

In Middle and Western States sow for fall and main crop middle of July to last of August, and in the manner given for spring sowing. In the field turnips are often sown broadcast, though in most cases better results are obtained by drill culture.

EXTRA EARLY WHITE MILAN

This variety is remarkably early. The tops are very small, strap-leaved, upright and compact, so that rows can be planted close together. The roots are clear white, very smooth, flat and are of best quality when only about two inches in diameter. The flesh is clear white, mild, sweet and tender. Very desirable for early use, especially for forcing. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; lb. \$1.50, postpaid.

EXTRA EARLY PURPLE TOP MILAN

Similar to Extra Early White Milan, except that the roots are a little flatter and an attractive purple-red on the upper portion. Well adapted for forcing. All in all, the Milan turnips leave nothing more to be desired in the way of an extra early garden turnip. Per pkt. 5c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; lb. \$1.50, postpaid.

EARLY PURPLE TOP, STRAP LEAVED

A very early strap-leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine-grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap Leaver. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

COW HORN or LONG WHITE

This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, cylindrical but usually ending in a point, and slightly crooked. The roots are often twelve to fifteen inches long by about two and one-half inches in diameter and grow about three inches out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when the roots are about two inches in diameter. Desirable for stock feeding and has obtained considerable favor as a market sort. The variety is of very rapid growth and well adapted for fall and early winter use. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 25c; lb. 80c, postpaid.

EARLY SNOWBALL

Early round turnip, maturing in seven weeks is of perfect form, snowy whiteness, crisp, solid, fine flavor. Per pkt. 5c, oz. 10c, ¼ lb. 40c, lb. \$1.25, postpaid.

LARGE YELLOW or AMBER GLOBE

Fine for table and feeding. Per pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25, postpaid.

WHITE GLOBE, STRAP LEAVED

White, globe-shaped. Per pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25, postpaid.

POMERANEAN WHITE GLOBE

One of the most productive kinds and in good, rich soil the roots will frequently grow to twelve pounds in weight. The roots are globe-shaped or slightly flattened; skin very white, and smooth. This sort is used for stock feeding and is also good for table use if pulled when the roots are not more than four to five inches in diameter. Where the winters are mild the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

MIXED TURNIP SEED

All sorts and varieties, long, round, oblong, etc. Pkg. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 50c, postpaid.

EARLY WHITE FLAT DUTCH, STRAP LEAVED

A very early, white turnip, extensively used for the table, especially in the southern states. The leaves are entire, toothed on the margin but not divided or lobed, and are upright in growth. The roots are of medium size, flat, very white fleshed, fine grained and sweet. The roots when in best condition for table use are about two and one-half inches in diameter. This variety is also grown as a field crop. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

WHITE EGG

An early, oval or egg-shaped variety with smooth, clear white roots of medium size which grow half out of the ground. The tops are small with leaves distinctly cut. The flesh is clear white, firm, fine grained and sweet. The roots of this quick growing garden sort when in best condition for use are usually about two inches in diameter and about three and one-half inches long. Per pkt. 10c, oz. 15c, 2 ozs. 20c, ¼ lb. 25c, lb. 80c, postpaid.

PURPLE TOP WHITE GLOBE

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety and is one of the best for market use. It is also known as Red Top White Globe. Per pkt. 5c, oz. 10c, 2 ozs. 15c; ¼ lb. 20c, lb. 65c, postpaid.

LARGE WHITE NORFOLK

This sort is usually grown for feeding stock, and although a little coarse in texture it is of good quality for the table, but for the latter purpose is in best condition when the roots are about 4 inches in diameter. The roots are white and smooth, grow to the largest size, and are globe-shaped or slightly flattened. The variety is allowed to stand out during the winter in the south where the tops are used for greens. Per pkt. 5c; oz. 10c; 2 ozs. 15c; ¼ lb. 20c; lb. 65c, postpaid.

ORANGE JELLY or GOLDEN BALL

A distinct variety, one of the most delicately flavored of the yellow-fleshed turnips. The tops are small. The roots are medium sized, round, very smooth and with deeper yellow skin than most of this class. The flesh is firm, crisp and of most excellent quality. The roots are in best condition for table use when about three inches in diameter. This variety is of quick growth, adapted to spring as well as fall planting, and keeps exceptionally well. Known also as Robertson's Golden Ball. Per pkt. 5c, oz. 15c, 2 ozs. 20c, ¼ lb. 25c, lb. 65c, postpaid.

PURPLE TOP YELLOW ABERDEEN

A medium sized, round, late maturing, long keeping, yellow-fleshed turnip. Roots yellow with purple top. Flesh pale yellow and of very firm texture, approaching the Ruta Baga in this regard, but tender and sweet. Since it requires a longer time to mature, the seed should be sown about two weeks earlier than most sorts. It is hardy, productive and valuable for stock feeding. Per pkt. 5c, oz. 10c, 2 ozs. 15c, ¼ lb. 25c, lb. 65c, postpaid.

RUTABAGAS or SWEDES

Culture of Ruta Bagas—Sow the seed from about the middle of June to the middle of July. Ruta Bagas require ground enriched with well-rotted manure, and should be sown in drills about two and one-half feet apart and the young plants thinned eight to twelve inches apart in the row. Keep free from weeds by frequent cultivation, and when the roots are full grown and before hard freezing weather, pull them, cut off the tops and store in a root cellar or pit. Ruta Bagas are sometimes sown broadcast and left to take their chances with the weeds and bugs. So treated, the crop is seldom a success, though occasionally on new clearings, free from weed seed, fair results are obtained.

MONARCH or TANKARD

This is a yellow-fleshed sort, having very large tankard-shaped roots, with relatively small necks, and tops. Color purplish-crimson above ground, yellow below; flesh very solid, fine-grained and of the best flavor.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

MIXED RUTABAGA SEED, VERY POPULAR—Pkg. 5c; oz. 10c; ¼ lb. 25c; lb. \$1.00, postpaid

IMPROVED PURPLE-TOP YELLOW

A fine strain. Per oz. 10c; ¼ lb. 30c; lb. \$1.00.

BUTZER'S BEST

This is a strain of Purple-Top Yellow Ruta Baga of American origin, selected to a smaller top and a much shorter neck than is usually found, while the roots grow to a large size, and are of the finest quality and excellent for table use and stock feeding. We consider this one of the most desirable kinds on our list.

Per pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

LARGE WHITE

Large size, white skin, sweet, white flesh.

Per oz. 10c; ¼ lb. 30c; lb. \$1.00

Each variety, 5c per pkt., and prices postpaid.

TOBACCO

CONNECTICUT SEED LEAF

An old, well-known variety.

Per pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25, postpaid

HAVANA

Grown from seed imported from Vuelta de Abajo.

Per pkt. 10c; oz. 40c, postpaid

IMPROVED WHITE BURLEY

This strain is much superior to the regular White Burley. Per pkt. 10c; oz. 40c; ¼ lb. \$1.10; lb. \$4.00, postpaid.

BONANZA

A White Burley cross on Yellow Orenoko, possessing the qualities of both parents blended.

Per pkt. 10c; oz. 30c; ¼ lb. 85c; lb. \$3.00, postpaid

GENERAL GRANT

It produces leaves forty-four inches in length, and matures as far north as Duluth, Minnesota.

Per pkt. 10c; oz. 40c; ¼ lb. \$1.10; lb. \$4.00, postpaid

STERLING

One of the earliest to ripen and one of the best for all purposes.

Per pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50, postpaid

VEGETABLE PLANTS

WE GROW ONLY THE FOLLOWING PLANTS. NO PLANTS SENT C. O. D.

CABBAGE

EARLY JERSEY WAKEFIELD, COPENHAGEN MARKET, DANISH BALLHEAD

Transplanted and "pulled" plants. Early and late at seasonable times.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Transplanted	\$0.25	\$1.25	\$1.00	\$8.00
Not transplanted	.15	1.00	.75	6.00

CAULIFLOWER

EARLY SNOWBALL, DRY WEATHER, KING WHITE

Cauliflower seed is scarce and high in some varieties and plant prices subject to change.

Prices	Postpaid		Not Prepaid	
	Dozen	100	100	1000
Early Varieties, transplanted.....	\$0.30	\$1.75	\$1.25	\$12.00
Not transplanted			1.25	10.00
Late kinds, transplanted	Write for prices			
Late kinds, not transplanted				

Add 15c per hundred if ordered by mail

CELERY

GOLDEN SELF BLANCHING, WHITE PLUME

Pine, healthy plants in early and Winter varieties furnished in season.

To succeed with celery keep the plants growing constantly while young—if they "stand still" they are liable to run up to seed later.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Transplanted	\$0.30	\$1.25	\$1.00	\$8.50
Not transplanted	Write for prices			

BRUSSELS SPROUTS

These are very hardy and should be grown the same as Kale or Broccoli.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Brussels Sprouts	\$0.25	\$1.50	\$1.25	\$10.00

TOMATOES

EARLY JEWELL, EARLIANA, JOHN BAER, YELLOW PEAR

Tomato plants should not be set out before the weather is settled and ground warm, unless they are protected from frost.

If you do not know what variety is best, tell us; we will give you the right one.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Transplanted	\$0.30	\$1.50	\$1.25	\$10.00

Write for prices on "pulled" plants and large lots.

BROCCOLI

Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a Winter Cauliflower very hardy and of the finest quality—"St. Valentine" is the best variety. Plants can be set after June and are ready to use in March.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Broccoli	\$0.30	\$1.50	\$1.25	\$12.00

Write for prices on large lots.

KALE

When you order Kale be sure to state whether you want the Garden Kale or the "Cow" Kale.

Prices	Postpaid		Not Prepaid	
	Doz.	100	100	1000
Thousand Head or "Cow" Kale	\$0.20	\$1.25	\$1.00	\$6.00
Garden or Curley Kale	.25	1.50	1.25	10.00

Special prices on large lots in season.

MISCELLANEOUS PLANTS

All Transplanted

Prices	Postpaid		Not Prepaid	
	Dozen	100	1000	
Celeriac	\$0.25	\$1.00	\$8.50	
Egg Plant, Black Beauty	.30	1.25	1.00	
Pepper, Chinese Giant	.30	1.25	1.00	
Tobacco	.30	1.25	1.00	

Add 25c per 100 for above plants by mail.

Chives (Schnittlauch), per bunch 15c

Anise

Balm

Sweet Basil

Borage

Caraway

SWEET, MEDICINAL AND POT HERBS, FROM SEED

To preserve varieties of which the leaves and stems are used, the stems should be cut from the plants just before the blossom appears (leaving a few joints at the base to sprout into fresh growth), tied in small bunches and hung up to dry. Where wanted for home use it is preferable to leave them hanging in a cool loft or garret until they are needed for use. The varieties marked with an asterisk (*) are hardy perennials, living over from year to year, and need replanting when the old plants become exhausted.

ANISE—(*Pimpinella anisum*)—Used for cordials, garnishing, and flavoring; the seeds have an aromatic taste. Per pkt. 5c; oz. 10c; ¼ lb. 35c

BALM—(*Melissa officinalis*)—The leaves have a fragrant odor, and are used for making a pleasant beverage known as balm wine, also balm tea, for fevers. Per pkt. 5c; oz. 25c

BASIL—Sweet—(*Ocimum basilicum*)—The leaves are used for flavoring soups, stews and highly seasoned dishes. Per pkt. 5c; oz. 20c

BELLADONNA—(*Atropa Belladonna*)—Used for medicine. Per pkt. 25c; oz. \$1.00

BENE—(*Sesamum orientale*)—Too tender for the North, but much used in the South. The seeds furnish an oil used for softening and whitening the skin. The leaves immersed in water make a drink beneficial for diarrhoea. Per pkt. 5c, oz. 15c

BORAGE—(*Borago officinalis*)—Leaves are used for flavoring, and flowers furnish bee pasture. Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid

***CARAWAY**—(*Carum carvi*)—Grown for the seeds which are used for flavoring bread, pastry, etc. Per pkt. 5c; oz. 10c; ¼ lb. 25c

***CATNIP, or CATMINT**—(*Nepeta cataria*)—The leaves are used for seasoning. It makes also an excellent bee pasture. Per pkt. 10c; oz. 30c; ¼ lb. 85c

CORIANDER—(*Coriandrum sativum*)—The seeds are used in manufacture of liquors and confectionery. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

CUMIN—(*Cuminum Cyminum*)—For flavoring pickles, soups, etc. Crop failure. Per pkt. 15c

DILL—(*Anethum graveolens*)—The seeds have an aromatic odor and warm pungent taste. They are used as a condiment, and also for pickling with cucumbers. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

***FENNEL**—Sweet—(*Anethum foeniculum*)—The leaves boiled are used in sauces. Per pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c, postpaid

***HOREHOUND**—(*Marrubium vulgare*)—The leaves are used for seasoning and also in the manufacture of the popular cough remedy. Per pkt. 5c; oz. 20c; ¼ lb. 60c

LAVENDER—(*Lavendula spica*)—A hardy perennial growing about two feet high. It is used for the distillation of lavender water or dried and used to perfume linen. It should be picked before it becomes dry and hard, and dried quickly. The seed is of rather slow and uncertain germination. Plant erect, with slender grayish green leaves and small violet-blue flowers.

Per pkt. 10c; oz. 30c; 2 ozs. 55c; ¼ lb. 90c; lb. \$3.00

LAVENDER, True—(*Lavendula vera*)—Perennial. Mostly grown for the sweet-scented flowers which, when dried, are placed in the linen closet to impart their delicate perfume to the linen. Commercially grown for perfume factories. Per pkt. 25c

MARJORAM, Sweet—(*Origanum marjorana*)—An aromatic herb for seasoning. The young tender tops and leaves are used green in summer to flavor broths, dressings, etc., and are also dried for winter use. Usually grown as an annual as it is not hardy enough to endure the winter of the northern states. Plant erect but branching with small oval grayish green leaves and small purplish or whitish flowers.

Per pkt. 10c; oz. 25c; 2 ozs. 40c; ¼ lb. 75c; lb. \$2.50

***ROSEMARY**—(*Rosmarinus officinalis*)—The aromatic leaves are used for seasoning. Per pkt. 5c; oz. 45c; ¼ lb. \$1.25

***RUE**—(*Ruta graveolens*)—For medicinal purposes; good for fowls. Per pkt. 5c; oz. 20c

SAFFRON—(*Carthamus tinctorius*)—A hardy annual. Cultivated for its flowers which are used principally for coloring, sometimes for flavoring and to make the cosmetic powder called rouge. The flowers should be picked while in full bloom. Plant upright in growth, one to three feet high; leaves ovate, prickly; flower-heads yellow, thistle-like.

Per pkt. 10c; oz. 25c; 2 ozs. 40c; ¼ lb. 75c; lb. \$2.50

***SAGE**—(*Salvia officinalis*)—The most extensively used of all herbs for seasoning and dressing, indispensable. Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

SUMMER SAVORY—(*Satureia hortensis*)—The leaves and flowers are used extensively for flavoring, particularly in soups and dressings. Per pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

***WINTER SAVORY**—(*Satureia montana*)—The leaves are used for flavoring. Per pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

***TANSY**—(*Tanacetum vulgare*)—Per pkt. 5c; oz. 30c.

TAGETES LUCIDA—Considered an excellent substitute for the True Tarragon, which does not seed. Per pkt. 10c; oz. 45c

TARRAGON—(Roots only)—(*Artemisia Dracunculus*)—Does not produce seed. 50c each, \$4.00 per doz.

***THYME**—(*Thymus vulgaris*)—The leaves are used for seasoning; a tea is also made for nervous headache. Per pkt. 10c; oz. 25c; ¼ lb. 75c

***WORMWOOD**—(*Artemisia asintum*)—Used medicinally, and is beneficial for poultry; should be planted in poultry yards. Per pkt. 5c; oz. 20c; ¼ lb. 60c

StimUplant Makes a Wonder Garden

BUTZER'S FLOWERS

Flower Seeds For Different Purposes
For description and prices see general list

FOR EDGING BORDERS

Ageratum
Alyssum
Armeria
Bellis
Candytuft
Centaurea
Lobelia
Marigold
Mysotis
Nasturtium
Nigella
Pennisetum
Petunia
Phlox, Dwarf
Portulaca
Pyrethrum
Sweet William
Sweet Pea, Cupids
Tagetes
Viola
Zinnia haageana

FOR HANGING BASKETS, WINDOW BOXES, etc. Upright

Pansy
Viola
Ageratum
Heliotrope
Primulas
Candytuft

FOR HANGING BASKETS, WINDOW BOXES, etc. Drooping

Alyssum
Convolvulus
Kenilworth Ivy
Lobelia
Nasturtium
Petunia
Thumbergia

PERENNIALS

Achillea
Aconitum
Adonis
Agrostemma
Alyssum
Anchusa
Anemone
Aquilegia
Arabis
Asperula
Aster
Aubrietia
Auricula
Bellis
Bocconia
Campanula
Candytuft
Centaurea
Cerastium
Chelone
Chrysanthemum
Coreopsis
Delphinium
Dianthus
Digitalis
Edelweiss
Eremurus
Erigeron
Erysimum
Erinus
Gaillardia
Geum
Hypsophila
Helenium
Helianthus
Heuchera
Hibiscus
Hollyhocks
Incarvillea
Lathyrus
Linaria
Linum
Lobelia
Lupinus
Lychnis
Pansies
Pentstemon
Phlox
Physalis
Polyanthus
Poppies
Primula
Pyrethrum
Romneya
Rudbeckia
Scabiosa
Silene
Statice
Stokesia
Sweet William
Veronica
Viola
Violet
Wallflower

ROCK GARDEN

Alyssum Saxatile
Compactum
Anemone Pulsatilla
Aquilegia Alpina
Aquilegia Coerulea
Arabis Alpina
Armeria Formosa
Armeria Formosa
Hybrida
Armeria Lauchean
Armeria Maritima
Arenaria Montana
Asperula Odorata
Aster Alpinus,
Goliath
Aster Alpinus, Nix
Aubrietia Bougain-
villei
Auricula
Calamintha Alpina
Campanula Car-
patica
Campanula Car-
patica Alba
Candytuft Semper-
virens
Cerastium Tomen-
tosum
Crucianella Stylosa
Dianthus Caesius
Dianthus Deltoides
Dianthus Plumarius
Edelweiss
Erigeron Speciosus
Hyb. Grandiflorus
Erigeron Grandi-
florus Elatior
Erinus Alpinus
Erodium Manescavi
Erysimum Pulchel-
lum
Forget-Me-Not Al-
pestris
Forget-Me-Not Al-
pestris Rosea
Geum
Geum Mrs. Brad-
shaw
Geum Lady Strathe-
den
Globularia Tricho-
santha
Gypsophila Repens
Helianthemum
Mutabile
Heuchera Sanguinea
Hybrida
Hieracium Villosum
Inula Ensifolia
Linaria Cymballaria
Lychnis Alpina
Oenothera Missouri-
ensis
Poppy Alpine
Poppy Nudicaule
Poppy Mixed
Poppy Sunbeams
Poppy Double Mixed
Primula Japonica
Mixed
Primula Veris
(Polyanthus)
Primula Yellow
Pyrethrum Roseum
(Painted Daisy)
Pyrethrum Hybrid-
um Grandiflorum
Pyrethrum Album

Pyrethrum Carneum
Pyrethrum Roseum
Pyrethrum Atro-
sanguineum
Pyrethrum Single
Mixed
Saponaria Ocy-
moides
Saxifraga Decipiens
Grandiflora
Saxifraga Rhei
superba
Silene Shafta
Solidago Virgo-
aurea Alpestris
Tunica Saxifraga
Veronica Incana
Veronica Prostrata
mixed

ANNUAL For Cutting

Agrostemma
Antirrhinum
Arctotis
Asters
Calendula
Calliopsis
Candytuft
Carnation
Celosia plumosa
Centairea
Chrysanthemums
Clarkia
Cosmos
Dahlias
Dianthus
Didiscus
Dimorphothea
Eschscholtzia
Gaillardia
Godetia
Gypsophila
Larkspur
Lavatera
Lupinus
Marigolds
Mignonette
Nigella
Phlox
Poppies
Salpiglossis
Scabiosa
Statice
Stocks, Ten Week
Sunflower
Sweet Peas
Sweet William
Verbena
Wallflower
Zinnias

FOR SHADED PLACES

Anemone
Antirrhinum
Auricula
Bellis
Canterbury Bells
Coreopsis
Delphinium
Digitalis
Hardy Primrose
Linum
Muscotis
Oenothera
Pansy
Polyanthus
Poppies (Hardy)
Schizanthus
Violet

EVERLASTING FLOWERS

Acroclinium
Edelweiss
Globe Amaranth
Helichrysum
Honesty, Lunaria
Rhodanthe
Statice
Xeranthemum

CLIMBING VINES Annual

Balloon Vine
Balsam Apple
Balsam Pear
Canary Bird Vine
Cardinal Climber
Convolvulus
Cypress Vine
Hyacinth Bean
Ipomoea
Japanese Morning
Glory
Mina Lobata
Nasturtium
Scarlet Runner
Sweet Peas
Thumbergia
Wild Cucumber

LIST OF BOTANICAL AND ENGLISH NAMES OF THE MOST POPULAR VARIETIES OF FLOWER SEEDS

We do not have all but most of them

Botanical	English	Botanical	English
Aconitum	Monks Hood	Humulus Japonicus	Japanese Hop
Adroclinium	Everlastings	Hunnemannia fumariaefolia	Busch Eschscholtzia
Adlumia Cirrhosa	Allegheny Vine	Iberis	Candytuft
Agrostemma Coronaria	Rose Campion	Ipomea Imperialis	Japanese Morning Glory
Amaranthus Caudatus	Love lies Bleeding	Ipomea Mexicana (Black Seed)	Moonflower
Amaranthus Cruentus	Prince's Feather	Ipomea Mexicana (White Seed)	Noctiflora
Ampelopsis Veitchii	Virginian Creeper or Boston Ivy	Ipomea Purpurea Convolvulus Major or Morning Glory	
Anchusa Capensis	Cape Forget-me-not	Ipomea Quamoclit	Cypress Vine
Antirrhinum	Snappedragon	Ipomea Quamoclit Hybrida	Cardinal Climber
Aquilegia	Columbine	Ipomea Rubro Coerulea	Heavenly Blue
Arabis Alpina	Snow on the Mountains	Ipomea Setosa	Brazilian Morning Glory
Armeria Cephalotes	Giant Sea Thrift	Kochia Trichophylla	Summer Cypress or Burning Bush
Bellis perennis, fl. pl.	Double Daisy	Lathyrus Latifolius	Everlasting Pea
Brachycome	Swan River Daisy	Lavatera Arborea Variegata	Tree Mallow
Beta Chiensis	Chilean Ornamental-leaved Beet	Lavatera Trimestris	Three Months' Apple
Cacalia Coccinea	Tassel Flowers	Linaria Cymbalaria	Kenilworth Ivy
Calendula	Double or Scotch Marigold	Linum Grandiflorum Rubrum	Scarlet Flax
Campanula Medium	Canterbury Bells	Linum Perenne Blue	Perennial Blue Flax
Campanula Calycanthema	Cup and Saucer	Lunaria Biennis	Honesty
Campanula Pyramidalis	Chimney Flower	Mathiola Bicornis	Night-scented Stock
Campanula Speculum	Venus' Looking Glass	Mediola Asparagoides	Smilax
Canna Indica	Indian Shot	Mesembryanthemum Crystallinum	Ice Plant
Cannabis Gigantea	Giant Hemp	Mimosa Pudica	Sensitive Plant
Cardiospermum Halicacabum	Balloon Vine	Mimulus Moschatus	Musk
Celosia Childsii	Chinese Woolflower	Mirabilis	Four o'clock or Marvel of Peru
Centaurea Montana	Perennial Cornflower	Myosotis	Forget-me-not
Centaurea Suaveolens	Yellow Sultan	Momordica Balsamini	Balsam Apple
Centaurea Moschata	Sweet Sultan	Momordica Charantia	Balsam Pear
Chrysanthemum Leucanthemum Hybridum	Shasta Daisy	Nicotiana Affinis	Tobacco Plant
Coix	Job's Tears	Nigella Damascena	Devil in a Bush
Cyanus Minor	Bachelor's Button or Cornflower	Nigella Hispanica	Love in a Mist
Datura Fastuosa	Trumpet Flower	Oenothera Biennis	Evening Primrose
Datura Cornucopia	Horn of Plenty	Papaver Glaucum	Tulip Poppy
Didiscus Coeruleus	Blue Lace Plant	Papaver Nudicaule	Iceland Poppy
Dianthus Chinensis	Chinese or Indian Pink	Papaver Ranunculus	Dwarf French Poppy
Dianthus Atropurpureus Albomarginatus	Mourning Pink	Papaver Mikado	Striped Japanese Poppy
Dianthus Punctatus	Princess Pink	Papaver Flanders	The Battlefield Poppy
Dianthus Nobilis	King's Pink	Passiflora Coerulea	Passion Flower
Dianthus Plumaris	Garden Pink	Physalis Franchetti	Chinese Lantern
Dianthus Barbatus	Sweet William	Primula Vulgaris	Common Yellow Primrose
Dianthus Diadematus	Diadem Pink	Pueraria Thunbergiana	Kudzu Vine
Dianthus Plumaris Semperflorens	Florist's Perpetual Pinks	Reseda Odorata	Mignonette
Digitalis	Foxglove	Ricinus	Castor Oil Plant
Dolichos Lablab	Hyacinth Bean	Silene Armeria	Catchfly
Echinops Ritro	Blue Globe Thistle	Vinca	Periwinkle of Madagascar
Eschscholtzia	Californian Poppy	Viola Odorata	Sweet-scented Violet
Eucalyptus	Blue Gum	Xeranthemum	Everlasting Flower
Gerbera	Transvaal Daisy	GRASSES	
Gomphrena	Globe Amaranth	Agrostis Nebulosa	Cloud Grass
Grevillea Robusta	Silk Oak	Avena Sterilis	Animated Oats
Galega Officinalis	Goat's Rue	Briza Maxima	Quaking Grass
Gypsophila	Baby's Breath	Coix Lachrymae	Job's Tears
Hedysarum Coronarium	French Honeysuckle	Eragrostis Elegans	Love Grass
Helianthus Annuus	Sunflower	Eulalia Japonica Zebrina	Zebra Grass
Helichrysum Monostrosum	Everlasting or Straw Flower	Gynerium Argenteum	Pampas Grass
Helleborus Niger	Christmas Rose	Lagurus Ovatus	Hare's Tail Grass
Hesperis Matronalis	Sweet Rocket	Pennisetum	Fountain Grass
		Stipa Pennata	Feather Grass
		Zea Japonica Variegata	Striped Japanese Maize

WE HAVE A SURPLUS OF SPECIAL MME. CAROLINE TESTOUT ROSES

The Portland Rose. The best known and liked of all roses in the City of Portland. It is planted by the thousands along the streets between the curbs and the sidewalks, in fact you can see this grand rose all over the city. A rose that is hard to beat.

6 for \$2.00; 12 for \$3.50, postpaid

At this special price we will send the roses postpaid up to and including the fourth zone. For points beyond the fourth zone please include additional postage.

These roses are all large, sturdy, two-year-old bushes, field grown, budded on manetta stock, and will give you splendid cut flowers the first season. Not less than six sold at this special price of 6 for \$2.00 or 12 for \$3.50, postpaid.

BRIGHTEN UP YOUR HOME WITH FLOWERS

Plant flowers for your table, flowers for your home, and flowers for your friends. You can never have too many flowers. An abundance of pretty bouquets can be had with so little work and so little expense that every home should have the cheering influence of flowers. The culture of many is so very simple that anyone can succeed. Flowers are divided into three classes: Annuals, which produce flowers, mature and die in one season. Biennials, which grow from seed one year and bloom and die the second year. Many of these will produce flowers the first year if sown early enough. Perennials, which live for several years, producing flowers annually after the first season. These are grown from seed and also by setting out cuttings, slips, or divisions of roots. Perennials are very satisfactory, as they live for many years and produce large quantities of very beautiful flowers.

ABRONIA

Umbellata Grandiflora (Sand Verbena)—6 in. A charming trailing succulent plant, with Verbena-like heads of fragrant flowers, of bright rose with white center; it delights in a dry, poor soil and sunny situations on rock-work. Per pkt. 10c.

ABRUS

Precatorius (Crab's Eye Vine or Weather Plant)—This beautiful plant has created a great sensation. If the leaves stand upward the sky will be cloudless; if they stand out straight, changeable weather is indicated; when the leaves hang straight downward, water may be expected to fall in torrents. A local storm is indicated by the curling together of the leaves. Bears clusters of bright yellow flowers, followed by pods with brilliant red seeds used for making beads, etc. Seeds should be soaked in lukewarm water before planting. Per pkt. 10c; zo. \$1.00.

ABUTILON

Royal Prize (Flowering Maple or Chinese Bell Flower)—3 to 4 ft. As indispensable for the window or greenhouse as the Petunia is for the flower garden. Grows rapidly from seed, and is soon in bloom. Leaves very ornamental and often beautifully variegated. Lovely bell-shaped flowers, borne the year round and in all colors. Per pkt. 15c.

*ACHILLEA (Milfoil. Yarrow)

Achilleas are of easy culture and grow in any good garden soil. They are useful for the border, wild garden or shrubbery; also for cutting.

The Pearl—2 ft. June to August. Pure white, fine for cutting; blooms all summer. Per pkt. 15c.

*ACONITUM (Monkshood)

Do not plant near vegetable gardens. Roots are poisonous. Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere.

Napellus—2½ ft. August. Fine rich blue flowers. Per pkt. 10c.

ACROCLINIUM (Everlasting)

Roseum—2 ft. A pretty everlasting, bearing graceful, daisy-like flowers, pretty bright rose with yellow center which, when cut in the bud state can be dried and used for winter bouquets. Per pkt. 5c.

Roseum Flore Alba—Graceful white, daisy-like flowers with yellow center. Per pkt. 5c.

Roseum Flore Pleno—Double pink. Per pkt. 10c.

Roseum Flore Alba Pleno—Double white. Per pkt. 10c.

Roseum Single Mixed—Per pkt. 5c ¼ oz. 25c.

Roseum Double Mixed—Per pkt. 10c; ¼ oz. 30c.

*ADLUMIA (Allegheny Vine)

Cirrhusa—15 ft. The feathery foliage is like the Maidenhair Fern. Delicate rose pink and white flowers cover the plant. Per pkt. 10c.

*ADONIS

Vernalis—18 in. May. Large star-shaped yellow flowers. Per pkt. 10c.

*AGATHEA

Celestis (Blue Daisy)—Flowers sky blue with yellow disk; easy growth. Per pkt. 10c.

Those Marked * are Perennials

AGERATUM

One of the best of summer flowering plants grown from seed. The plants start readily, grow rapidly and soon come into bloom, and when they begin to bloom they flower uninterruptedly throughout the season. During the hot, dry summer months there are no brighter or more freely produced flowers. Blue, per pkt. 5c; White, per pkt. 5c; Mixed, per pkt. 5c.

*AGROSTEMMA (Coronaria)

Rose Campion—One of the most attractive of the hardy perennials. Blooms the first season from seed, producing pretty pink-like blossoms on long slender stems. Fine for both mass planting and for bouquets. Height about 18 inches. Perennial. Per pkt. 10c.

AGROSTIS

Nebulosa (Cloud Grass)—1½ ft. An airy and graceful annual grass; looks like a line of mist when in bloom. Beautiful to mix with cut flowers. Pkt. 10c.

*ALSTROEMERIA

Aurantiaea—Belongs to the Amaryllis family, quite hardy, flowers orange color streaked with red. A well established plant will produce five to six flower stalks carrying ten to fifteen blooms. Pkt. 25c.

ALYSSUM

A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer.

Sweet (Maritimum)—This very hardy annual for borders, edging or massing in small beds, comes into bloom early in the spring, covering itself with clusters or trusses of small, pure white cruciform flowers. They have a peculiar, delicate fragrance and are useful in small bouquets. Usually not over eight inches high but spreading. Pkt. 5c; oz. 30c.

Lilac Queen—Beautiful soft lilac flowers, changing to white. Per pkt. 10c; oz. \$1.00.

Little Gem—Very dwarf—4 inches—and spreading. They quickly become one mass of white fragrant flowers, remaining in full bloom from spring to fall. Per pkt. 10c; ½ oz. 20c; oz. 30c.

Lutescens—Yellowish Flowers, 6 inches. Per pkt. 10c.

Procumbens (Carpet of Snow)—A new and very select strain, carefully selected. Plants very spreading and only about 3 inches tall. Blooms are massed, completely hiding all foliage. Pkt. 10c.

ALYSSUM

*SAXATILE COMPACTUM

(Basket of Gold)—1 ft. May-June. Producing masses of golden flowers very early. May be planted effectively with Arabis. Per pkt. 10c; ¼ oz. 40c.

AMARANTHUS

Tricolor—A hardy annual with leaves of red, yellow and green; well known as "Joseph's Coat". Especially brilliant if grown in rather poor soil. Per pkt. 10c; oz. 30c.

Caudatus (Love Lies Bleeding)—Blood-red, drooping. Per pkt. 10c.

All varieties mixed. Per pkt. 5c.

Those Marked * are Perennials

AMMOBIUM

Alatum Grandiflorum—2½ ft. This pretty white everlasting should be in every garden. Grows well in sandy soil. Pkt. 10c

ANAGALLIS

Grandiflora Mixed—6 in. Lovely dwarf plants, exceedingly effective as edgings, also charming on rock-work and in pots. Pkt. 10c

Grandiflora Coerulea—Dark blue, center deep purple. 10 inches. Pkt. 10c

***ANCHUSA**

Italica, Drompore Variety—5 ft. June-July. Beautiful gentian blue, flowers one of the best perennials. Per pkt. 10c.

Capensis—Annual blue. Per pkt. 5c.

***ANEMONE (Wind Flower)**

Very pleasing hardy plants for the herbaceous border. Fine large flowers, few plants compare with them in beauty. Excellent for bouquets and table decorations.

Coronaria (Poppy Anemone)—Mixed. June. 10 in. Per pkt. 10c.

St. Brigid's Strain—May-June. Double and single mixed. 12 in. A beautiful selection of the *Coronaria* varieties in a wonderful array of colors. Per pkt. 10c.

Pulsatilla—1 ft. April-May. Well adapted for rock-work or border flowers, varying from lilac to purple. Per pkt. 10c.

Pulsatilla Rubra—6 to 9 in. April-May. Dark red with erect flowers. Per pkt. 10c.

***ANTHEMIS (Marguerite)**

These Hardy Marguerites are most satisfactory perennials, succeeding in the poorest soil. The flowers are yellow.

Kelwayi (Hardy Marguerite)—2 ft. Daisy-like yellow blossoms, produced all summer. Excellent for cutting. Per pkt. 10c.

ANTIRRHINUM (Snapdragon)

Without question one of the most desirable flowers for general garden culture. They come in a great variety of colors and are equally good for bouquets as for mass planting. They are biennials, but can be handled as annuals also. When sown in early May they bloom in July and then until frost. If covered slightly they will come through the winter nicely and bloom abundantly the second year. For very early flowers start in the house and transplant outdoors when weather is favorable.

Large Flowering Tall.

Garnet.	Silver King.	
Delicate—Rose pink.	Golden King.	Pkt. 10c
Rose.	White.	3 pkts. 25c
Scarlet.	Finest Mixed	¼ oz. 35c

SEMI-TALL SORTS. 18 to 20 inches.

Bonfire—Orange or flame color. It has the tints of firelight.

Canary Bird—A beautiful shade of light lemon yellow.

Cottage Maid—Pale pink, white throat.

Crimson Queen.

Daphne—Soft blush pink.

Defiance—Orange red.

Firebrand—Fiery orange-scarlet.

Golden Queen—Rich yellow.

Silver Pink—Delicate rose-pink, seemingly covered with a silver sheen.

Each of above, Per pkt. 10c, any 3 for 25c.

Mixed—Per pkt. 5c.

Butzer's Special Mixture of Snapdragons—Includes all these and many other charming varieties and a packet will furnish you with a never-ending color combination of long-stemmed cut flowers suitable for home, church or hospital decoration.

Per pkt. 10c; ¼ oz. 25c; ¼ oz. 40c; 1 oz. \$1.25.

Tall Maximum or Giants

This is the newest creation in Giant Antirrhinums, and is a marked advance over the older Tall Large Flowered type in size and brilliancy of color. The flowers are closely placed on the stems.

Apple Blossom—Rosy pink, yellow lip.

Bunch of Lilac—Lilacy purple.

Canary Bird—Canary yellow, golden yellow center.

Copper King—Velvety copper scarlet.

Golden Queen—Deep yellow.

Indian Summer—Velvety copper.

Old Gold—Deep golden yellow.

Purple King—Deep glowing purple.

Snowflake—Pure white, yellow tube.

The Rose—Rose pink.

Wallflower—Brownish orange, copper red. Per pkg. 15c, 2 for 25c

***AQUILEGIA (Columbine)**

Charming hardy perennial plants growing from one to three feet high, bearing in countless numbers through May and June their exquisite blossoms of clear blue, white, rose, yellow, purple, striped, etc. For planting in permanent borders or naturalizing along the edges of woods or shrubbery this old-fashioned favorite is one of the best of all hardy plants.

LONG SPURRED HYBRIDS

Long Spurred Hybrids—The flowers are very large and distinct shades of blues, lavenders, mauves, whites, creams, pinks, reds, yellows, etc. Many of these colors being entirely new in the species and are the result of very many years' careful hybridization. Per pkt. 15c

Mrs. Scott Elliott's Strain of Long Spurred Hybrids (Seed from the originator).—This strain is allowed by the Royal Horticultural Society to be the best ever raised, and has received awards whenever exhibited. The blooms are of large size and the spurs very long. The colors range through shades of lavenders, mauves, blues, purples, whites, creams, yellows, pinks, reds, etc. There are no jarring or crude tints, and the whole form a most harmonious mass of coloring seldom seen in other flowers. Per pkt. 25c

Canadensis (Turk's Cap)—Handsone scarlet and orange flowers. Per pkt. 10c

Chrysanthia—3 ft. Yellow, long spurred. Pkt. 10c

Coerulea (Rocky Mountain Columbine)—3 ft. One of the most beautiful of our native American flowers. Sepals, deep blue; petals, white. Per pkt. 10c

Coerulea Rosea (Rose Queen)—2½ ft. Beautiful flowers of light to dark rose with white center and yellow anthers, a most delicate combination of colors. Per pkt. 25c

Farquhar Pink—Very fine. Per pkt. 25c

Vulgaris Double Mixed—Per pkt. 10c.

Single Mixed—Many varieties. Per pkt. 10c

Double Mixed—Per pkt. 10c.

BUTZER'S SPECIAL MIXTURE

includes all the above mentioned varieties and many new colors not found in any named collection. Pkt. 25c

***ARABIS (Rock Cross)**

Charming dwarf spring-flowering plants of easy cultivation; valuable for beds, edgings. They do well in any soil, but need plenty of sun.

Alpina—6 in. A most useful hardy perennial for spring bedding and rockeries. Early in the spring the pure white flowers make a pleasing contrast in beds and borders with *Alyssum saxatile*. Pkt. 10c

ARCTOTIS

Grandia, the Blue-eyed African Daisy—A quick-growing, half-hardy annual, forming a bush two to three feet across, with soft whitish foliage. The flower stems are long, while the flowers are large and showy—from two to three inches across—color pure white with a blue eye, surrounded by a narrow yellow zone, the under part of the petals being lilac blue; height 18 inches. Per pkt., 10c.

ARGEMONE

Grandiflora (The Prickly Poppy)—2 ft. Lovely plants with an ornamental foliage and large, handsome poppy-like flowers, snowy white, filled in the center with golden stamens, very beautiful. Per pkt. 10c.

***ARMERIA (Thrift Sea Pink)**

Grand plants for crevices of wall and rocks, and also for growing in flower borders or as permanent edgings; excellent plants for the sea coast. June-July.

Formosa. 9 in. Pretty rose pink. Grand for borders. Pkt. 10c.

Lauchena—6 in. June-August. Crimson flowers, deep green tufty foliage. Per pkt. 10c

Maritima—3 to 6 in. May-June. Silvery pink flowers. Per pkt. 15c

***ARENARIA (Sand Wort)**

A fine plant for shady place in rock garden.

Montana—White.—Pkt. 25c.

***ASPERULA**

Odorata Woodruff or Waldmeister. An herb whose leaves are used in making beverages or when dried used to lay among linens. 6 to 8 in. Also useful for carpeting, shady places and for edgings. Per pkt. 10c

***ASTERS PERENNIAL**

Hardy Perennials of much beauty in the autumn days. Less showy than the *Chrysanthemum*, they are more refined in color and form. Easy to cultivate and fine for cutting.

All Sorts Mixed—Extra fine, from a splendid collection; sown early in spring, they will flower the same year. Per pkt. 10c

ASTERS

This grand old fall favorite of our grandmother's garden still continues to beautify our garden. By gradual selection this plant now blooms from early summer until frost and its usefulness as a cut flower is unlimited. Our seed is produced by our own growers from stock seed especially selected and controlled by us.

Culture—Sow either in the open ground in May or in March or April in cold frame, spent hot-beds or pots or boxes in the house, covering the seed with about $\frac{1}{4}$ -inch of good rich soil; when the plants are strong enough, transplant about 18 inches apart in deeply dug, well-prepared beds. Asters must not be planted in freshly manured soil nor in soil that has been planted to Asters for two or three years previous. Slaked lime or fresh wood ashes are beneficial if stirred in the soil a little before planting and are said to counteract the ravages of the aster blight. A few soakings with tobacco water around the roots during the growing season is also recommended.

GIANT CREGO ASTERS

The Crego is probably the largest of all Asters, the petals being exceedingly long and wavy and the flowers borne on stems some fifteen inches in length. It is a monster among Asters. A real treat awaits anyone who plants this variety.

Crego Pink.
Crego Blue.
Crego Deep Rose.
Crego Purple.
Crego Lavender.

Crego Rose Pink.
Crego Shell Pink.
Crego Crimson.
Crego White.
Per pkt. 10c, 3 for 25c.

CREGO'S GIANT MIXED ASTER

Our own mixture of the above, each color grown separately and then carefully blended in nearly equal proportions. While we advise the planting of separate colors, this mixture, being specially prepared, will give the planter a fine assortment of all shades. Pkt. 10c

CALIFORNIA GIANTS

A new family of asters produced by a California seed grower and specialist in asters. They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of flower. A true non-lateral type.

California Giants Peach Blossom.
California Giants Light Blue.
California Giants Light Purple.
California Giants Deep Rose.
California Giants White.
California Giants Dark Purple.
California Giants Mixed.

Per pkt. 10c; 3 pkts. for 25c

GIANT OSTRICH FEATHER ASTER

The finest type of the Giant Comet, or Ostrich Feather type of Aster. Much larger than the Giant Comet, the petals longer, more twisted, and produced in greater abundance. Borne on long stems, they make cut-flowers par excellence.

Soft Pink.
Rose.
Crimson.
Light Blue.
Dark Blue.
Rose Pink.
Sky Blue.
White.

White turning to Sky Blue

Each of the above, pkt. 10c; any 3 pkts. for 25c. Mixed, all colors, pkt. 10c.

THE KING ASTER

The habit is similar to the popular Giant Branching, vigorous in growth, long stiff stems. In form the flower is entirely distinct from any other variety; petals somewhat resemble the quilled varieties, but are much larger and broader, those in the center being curled and incurved, completely covering the crown. In shape and size the bloom is round, full and very large.

White.
Pink.
Rose.
Shell Pink.
Crimson.
Violet.
Lavender.
Mixed, all colors.

Each of the above, pkts., 10c; any 3 pkts. for 25c.

AMERICAN BEAUTY

Similar in type of flower and growth to the well known Late Branching Asters, but differs in that all the large blossoms are produced on much longer and heavier stems. Some of the individual stems measure more than two feet in length. It makes a very heavy growth, and is one of the latest flowering Asters that we know. This should be in every garden.

American Beauty Carmine Rose.
American Beauty Crimson.
American Beauty Lavender.
American Beauty Peach Blossom.
American Beauty Purple.
American Beauty Pink.
American Beauty Rose.
American Beauty White.
American Beauty Mixed.

Per pkt. 10c; any 3 pkts. for 25c.

GIANT BRANCHING COMET

This is one of the most popular and distinct types of Asters as well as being of the earliest period of bloom. Plants grow 12 to 15 inches in height, branching freely. The outer petals are broad, flat, and reflexed (curving outward), while the center of the flower is composed of many short petals, slightly pointed. The whole flower has a distinctly feathery effect resembling that of the Japanese Chrysanthemums.

Comet White.
Comet Pink.
Comet Rose.
Comet Rose-Pink.
Comet Light Blue.
Comet Lavender.
Comet Dark Blue.
Comet Crimson.
Comet Purple.
Comet Mixed.

Per pkt. 10c; 3 pkts. 25c, postpaid.

AMERICAN ASTERMUM

An attractive and descriptive name for a new race of asters which belong to the Comet family. The plants are of strong upright growth with 12 to 15 strong stems 20 inches long, each carrying a flower of perfect form.

Lavender.
Mixed three colors.
Rose Pink.
Snow White.

Each of the above, pkt. 10c; 3 pkts. for 25c

ASTER THE SUNSHINE Improved Anemone Flowered

One of the most attractive varieties. The plants are sturdy and strong, throwing up long flower stalks, making wonderful cut flowers. Some of the flowers have twisted petals and some have quilled petals; all have a cushion center of tiny quills of a contrasting color which makes a flower look as if it was covered with snowflakes. The blue flowers are dotted with a paler blue and some in white, and the rose in a lighter shade of pink or white. Their delicate beauty is hard to describe. A wonderful cut-flower variety, borne on long, stiff stems, and the flowers last a long time after cutting.

We can supply this in: White, Light Blue, Dark Blue, Pink and Lilac.
Sunshine Aster, Mixed.

Each of the above, 10c per pkt.; 3 pkts. 25c.

SINGLE GIANTS OF CALIFORNIA

We offered this wonderful Aster for the first time last year. It was developed out of the Double Giants of California type. The flowers are large, measuring three to four inches across, with stems 18 to 24 inches in length. The petal has a slight twist, which adds a piquant touch to its beauty. The white blossoms resemble Shasta Daisies in appearance, but their greater length of stem makes them more graceful and better adapted to florists' use. In the garden, the Single Giants of California add a charming note of simplicity among the fuller types of Asters. We believe this new, single type of Aster is destined to become very popular.

We can supply this in White, Rose, Light Blue, Purple, Lilac, Delicate Flesh and Mixed, at 15c per pkt., 2 pkts. 25c.

SINGLE MARGUERITE ASTER

Plants strong, vigorous and of handsome pyramidal habit, very free blooming, and produce their beautiful flowers on long slender stems. The flowers are from 2 to 3 inches in diameter, with small yellow centers, and last a week when cut.

Scarlet. White.
Dark Blue. Mixed.
Lavender.
Per pkt. 10c. each. 3 pkts., 25c.

ROSE CITY MIXTURE ASTER

This special mixture includes all of the newest and is truly an unrivaled mixture. This mixture will afford a splendid supply of flowers during the entire season. The best mixture on the market. Pkt. 10c; 3 pkts. 25c.

LAVENDER GEM ASTER

One of the most beautiful Asters. It is of true Comet type, with large, artistic, loosely-arranged flowers on long, wiry stems, and of the most charming shade of lavender imaginable. Begins blooming in July, continuing through August; a lovely variety for cutting.

Per pkt., 10c; 3 pkts., 25c.

*ASTER (Alpinus)

Now fill a most important place in all hardy flower gardens, lighting up the borders and shrubberies with their masses and clouds of dainty and brightly colored blossoms throughout the autumn months up to November, when other flowers are scarce.

Alpinus Goliath—Large, soft blue. Pkt. 20c.

Alpinus Nix—Light blue, star-shaped. Pkt. 15c.

*ASTERS PERENNIAL—See Page 39

*AUBRIETIA

Large-Flowered Hybrids. The beautiful mauve spring bedding plant makes the garden so gay in the early months of the year. Aubrietias produce great masses of bloom and are charming companions of Yellow Alyssum and White Arabis. Grows well from seed. Sow in June and plant out in autumn where required for flowering in spring. A valuable strain including a wide range of many unusual colors which cannot be fixed and offered separately. Height 6 inches. Pkt. 25c.

*AURICULA

These are among our most delightful spring flowers. They require a partially shaded location.

Auricula—6 in. Flowers in early spring in colors of yellow, brown and red. Per pkt. 25c.

BABY BREATH (See Gypsophila)

BACHELOR'S BUTTON

See Centaurea.

BALLOON VINE

Thrives in light soil. One of the prettiest climbers. Remarkable for its inflated membranous capsules containing the seed. It is sometimes called Love in a Puff. Flowers white. Pkt. 5c.

BALSAM

Balsam or Lady Slipper—Double Camelia Flowered—An old and favorite garden flower, producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion; of easy culture; succeeds in a good rich soil. Our strain is unrivaled for great variety and size of flowers.

Double Bright Scarlet.

Double Rose.

Double White.

Double Salmon Rose.

Finest Double Mixed.

Per pkt. 5c.

BALSAM (Apple) (Pear)

Apple—10 ft. A very ornamental and quick growing climber. While it has a flower, it is grown mostly for the effect of the fruit which follows. This is yellow, looks not unlike an apple—hence its name. When ripe it opens and shows the seeds and blood-red interior.

Per pkt. 10c

Pear—like above, only the fruit is pear-shaped.

Per pkt. 10c

Balsam—Apple and Pear mixed. Per pkt. 5c.

BARTONIA

Aurea—12 in. One of the most showy of annuals, excellent both for beds and borders; producing showy, golden-yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. It will not stand transplanting, so should be sown where intended to bloom. Sow in the open ground early in May. Blooms through summer and fall. Per pkt. 10c

BELLIS—See Daisy.

***BOCCONIA**

Cordata (Plume Poppy)—5 ft. A handsome border plant, having large lobed heart-shaped leaves with silvery undersurface, and flower plumes of a pretty cream color. Per pkt. 10c

BRACHYCOME (Swan River Daisy)

A free flowering dwarf-growing annual which is covered during the greater part of the summer with an abundance of pretty blue and white flowers. Fine for edging, small beds or pot culture. Height, 9 inches. Pkt. 10c

BRIZA

Maxima (Quaking Grass)—12 in. Valuable for winter bouquets and wreaths. The seed clusters are heart-shaped and gracefully poised on such slender stems that they are almost constantly in motion. Per pkt. 10c

BURNING BUSH—See Kochia.**BROWALLIA**

A half-hardy annual, making a fine bedding plant. Blooms profusely. The flowers are bright ultra-marine blue, and also sky-blue with white center. Mixed, pkt. 10c

CACALIA—2 ft.

Each flower is a miniature paint brush of orange-scarlet produced on long wiry stems which make it an excellent cut flower. An old but little known annual for the border worth trying.

Tassel Flower or Flora's Paint Brush—Scarlet and orange mixed. Pkt. 10c

***CALAMINTHA**

Alpina—6 in. A very graceful little rock plant, spreading tufts of pretty foliage, spangled with lavender blue flowers. Per pkt. 25c

CALENDULA (Pot Marigold)

This is the Marigold of Shakespeare's time. An annual of easy culture. Plants grow about one foot high and one foot in diameter and literally covered with large double flowers. Blooms from July to frost.

Orange King—The outer petals are slightly imbricated, while those of the center are curved like those of the peony. Color glowing orange. Pkt. 10c

The Ball—It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite on the Cut Flower Market. Pkt. 10c

Balls Gold—Dark golden yellow. Pkt. 10c

Lemon Queen—Large sulphur yellow. Per pkt. 10c.

All Colors Mixed—Per pkt. 5c.

CALIFORNIA POPPY

See Eschscholtzia.

CALLIOPSIS (Tickseed)

Very graceful border plants, supplying throughout summer an abundance of elegant showy flowers which are greatly prized for bouquets and vases. They will thrive anywhere, even in city gardens, where their bright colors are highly appreciated.

Golden Wave—Flowers yellow with a circle of rich crimson-brown around the eye. Per pkt. 5c

Crimson King—Per pkt. 5c.

Golden King—Pkt. 5c.

Radiata Tigrinia (Tiger Flower)—6 to 8 in. Flowers large reddish-brown, turning golden yellow. Per pkt. 10c

Tall Double Mixed—Per pkt. 5c.

Tall Single Mixed—Per pkt. 5c.

Special Mixed—Per pkt. 5c.

***CAMPANULA (Canterbury Bells)**

Bellflower—Well known, beautiful, hardy herbaceous perennials, bearing a great production of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

Single Finest Mixed—All colors. Pkt. 5c.

Carpatia—Single Blue, grows 1 ft. high; compact; good for borders. Pkt. 5c

Double Blue, White, Rose or Mixed—Pkt. 10c.

Campanula Calycanthema—Cup and Saucer—Rose (delicately rosy-pink), Pkt. 10c; White (pure white), Pkt. 10c; Blue (a fine clear shade), Pkt. 10c; Mixed (all colors), Pkt. 5c; Striped (white, striped blue), Pkt. 10c.

Persicifolia, Mixed (Peach Bells)—Beautiful bell-shaped flowers which come in colors of blue and white. Pkt. 10c

Pyramidalis, Blue (Chimney Bellflower)—Rich blue saucer-shaped flowers; 18 inches high. Pkt. 10c

Pyramidalis, White—A pure white form of the above. Pkt. 10c

CANARY BIRD FLOWER

This is one of the most beautiful of climbers, with handsomely fringed rich yellow flowers and delicate foliage. Per pkt. 5c

CANDYTUFT (Hyacinth Flower)

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.

Little Prince—Dwarf white. Pkt. 5c; oz. 70c.

White Empress—Very sweet and attractive. Pkt. 5c; oz. 50c

CANDYTUFT (Iberis Umbellata)

Carmine—Per pkt. 5c.

Lilac—Per pkt. 5c.

Crimson—Per pkt. 5c.

Rose—Per pkt. 5c.

Flesh White, Per pkt. 5c.

Lavender—Per pkt. 5c.

Mixed—Per pkt. 5c.

***CANDYTUFT (Perennial)**

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

Gibraltarica—Pinkish white. Per pkt. 10c.

Sempervirens—Flowers form a sheet of whiteness. Per pkt. 10c

***CANNA**

Enormous brilliant clusters of bloom borne on spikes above broad leaves of green or bronze, in tropical effect. No park, no public garden, private estate, or even moderate town plat is complete this summer without a showing of Cannas. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be pierced in one spot with a file and soaked in lukewarm water for 24 hours before sowing. A splendid lot of plants may be produced at a much reduced cost.

Choice Mixed—Pkt. 5c.

CANTERBURY BELLS (See Campanula)**CARDINAL CLIMBER**

Ipomea Quamoclit Hybrida—The finest new annual climber introduced in many years. Very graceful and beautiful, growing rapidly, and in a warm, sunny location, in good soil, it reaches a height of 20 feet and is densely clothed with deeply laciniated palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring 1 1/4 inches across. Pkt. 10c

***CARNATIONS**

A half-hardy, perennial, used generally for greenhouse florist's trade in winter and for a general garden favorite in summer. There are a large number of varieties and colors, but the early flowering mixtures are recommended for out-of-door culture. Sow the seed early in the year and transplant in March or April.

Chabaud Mixed—A remarkable strain raised by a Carnation specialist. Blooms in 5 months after being sown, and continues to flower indefinitely in the greatest profusion. Pkt. 100 seeds, 15c

Chabaud Double Dark Red. Pkt. 15c.

Chabaud Double Scarlet. Pkt. 15c.

Chabaud Double White. Pkt. 15c.

Chabaud Double Yellow. Pkt. 15c.

Finest Double Mixed—Saved from extra fine flowers. Pkt. 25c

CARNATIONS

Engleman's—We believe that there is no better carnation than this, over 80 per cent will be double and is a perpetual bloomer. Mixed, per pkt. 25c

CARNATION

Marguerite—This exceedingly valuable departure in Carnations has proved a complete success. Its most important feature is the fact that it flowers easily the first year from seed—that is, from seed sown in February or March, plants can be had in full bloom by August. The proportion of fine double flowers is very great, being usually 70 to 80 per cent; these are varied and beautiful in color and exceedingly useful for cutting. The habit of the plant is robust, and hence very useful for bedding purposes. Finest mixed. Pkt. 5c

CASTOR OIL BEANS—See Ricinus.

CELOSIA CRISTATA (Cockcomb)

Showy, half-hardy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

Tall Crimson—Pkt. 10c.

Dwarf Mixed—All the above and others.

Tall Coxcomb Mixed—18 to 24 in. Pkt. 10c; ¼ oz. 30c

Plumosa or Plumed Varieties—2½ to 3 ft. These stately plants are considered among the most ornamental, and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage.

Plumosa Mixed, all colors. Pkt. 5c, ¼ oz. 15c.

CELOSIA

The Chinese Woolflower (Celosia Childsii)—Plants grow two to three feet high, the bloom starting early with a central head, round and globular, which often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like an immense bouquet splendidly arranged and set in the ground. None of the blooms fade in any way until hit by frost; but all continue to expand and glow with a deepening richness of color, a dark crimson-scarlet. Pkt. 15c

Childsii Yellow. Pkt. 15c. **Childsii White.** Pkt. 15c. **Childsii Scarlet.** Pkt. 15c. **Childsii Mixed.** Pkt. 15c.

CENTAUREA (Bachelor's Button)

Also known as Centaurea, Cornflower, Blue Bottle, Ragged Sailor, Sweet Sultan, etc. These are among the most attractive of all hardy annuals and one of the most popular of all old-fashioned flowers.

Blue—This is the dark blue sort so much in demand for cutting. Pkt. 5c; oz. 30c.

White. Pkt. 5c, oz. 25c. **Pink.** Pkt. 5c.

Mixed. Pkt. 5c.

IMPERIALIS (Giant Sweet Sultan)

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet scented, artistic shaped flowers are borne on long, strong stems; when cut will last for several days in good condition.

Brilliant Rose. **Deep Lavender.**

Purple. **White.** **Mixed.**

Each of the above. Pkt. 10c.

Moschata Mixed—Sweet Sultan, white, red and blue. Pkt. 5c

CENTAUREA (Dusty Miller)

Candidissima—10 in. Thick silvery white leaves, used for bedding purposes. Pkt. 10c

Gymnocarpa Dusty Miller—1 ft. Foliage finely cut of silvery gray color, used for bedding. Pkt. 10c

*CENTAUREA (Perennial)

A dry, sandy soil of moderate fertility, seems to suit them best, keeping up a profusion of bloom all summer. **Montana, Blue**—Large-flowered perennial Cornflower. Pkt. 10c

Montana alba—White. Pkt. 10c.

*CERASTIUM

Tomentosum (Snow in Summer)—4 in. Silvery white foliage, covered with snow-white flowers in early summer. Per pkt. 15c

Biebersteini—White. Pkt. 10c.

*CHEIRANTHUS

Allioni—1 ft. Fine rock or border plant with orange flowers. Pkt. 10c

*CHELONE

Long coral-red spike like a pentstemon.

Hybrida, Mixed (Turtle Head)—3 ft. July and August. Allied to Pentstemon; throws out long spikes of brilliantly-colored flowers. Pkt. 10c

CHRYSANTHEMUM

These outdoor "summer Chrysanthemums" are showy for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots.

Coronarum—Double Tall Mixed. Pkt. 5c.

Coronarum—Double Dwarf Mixed. Pkt. 5c.

Carinatum—Single Mixed. Pkt. 5c.

Carinatum—Double and Single Mixed. Pkt. 5c.

CLARKIA

One of the prettiest and showiest of hardy annuals that bloom freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight; useful for hanging baskets, vases and as edgings to beds of larger growing plants. Sow outdoors in early spring and grow in partial shade. The plants keep up a continuous bloom through midsummer to late autumn. Average height 1½ ft.

Alba Elegans—Double pure white.

Apple Blossom Elegans—Double pink.

Brilliant Elegans—Double salmon pink.

Salmon Queen Elegans—Double salmon.

Scarlet Queen Elegans—Double orange scarlet.

Purple Prince Elegans—Double purple.

Choice of above, pkt. 5c

Double Elegans Mixed. Pkt. 5c; ¼ oz. 15c.

Double and Single Mixed. Pkt. 5c; ¼ oz. 15c.

CLEOME

Pungens (Spider Plant)—5 ft. A showy garden annual producing curious heads of flowers of bright rose color; of easy cultivation, blooming until late; a good bee plant. Pkt. 10c

COBOEA

Coboea Vine, Cathedral Bells—One of the handsomest and most rapid growing annual climbers, running up to 30 feet in a season. The flowers are bell-shaped and of a purplish lilac when full grown. It is a very prolific bloomer, one that makes a show the first year, both in vines and flowers, one that is always clean of insects. We know of none better. ¼ oz. 15c

Blue—Pkt. 5; **White**—Pkt. 5c; **Mixed**—Pkt. 5c.

COCKSCOMB (See Celosia Cristata)

COIX LACHRYMAE (Job's Tears)

Curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds used for beads. Valuable for winter bouquets with everlasting flowers. Plant outdoors early in spring in hills three feet apart, four or five seeds in a hill, and cover half an inch deep. Hardy annual; three feet high. Pkt. 5c; oz. 15c

COLUMBINE (See Aquilegia)

*COREOPSIS (Tickseed)

One of the most popular hardy plants, the flowers are a rich golden yellow of a beautiful graceful form and bloom June to October.

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

*COREOPSIS (Double)

Lanceolata Grandiflora Fl. Pl. (Double Flowering Coreopsis)—This new double and semi-double form is just as easy to grow as the single and the extra petalage adds a further charm to the flower. Pkt. 10c

CORNFLOWERS (See Centaurea)

COSMOS

One of the best and showiest annuals for late summer blooming. The plants grow to a height of from four to six feet and therefore make an excellent background for the garden. The flowers are borne on long stiff stems and with the feathery foliage make beautiful bouquets. Will last about a week in water.

Mammoth Flowering—White, pink, red, crimson or mixed. Pkt. 10c; ¼ oz. 20c

EARLY FLOWERING COSMOS

Seed started early in the house or frame, will produce flowers a month earlier than Mammoth.

Crimson. Pkt. 10c.

White. Pkt. 10c.

Pink. Pkt. 10c. **Mixed.** Pkt. 10c, ¼ oz. 30c.

Those Marked * are Perennials

COSMOS

Anemone Flowered or Crown and Crested—These differ from the other cosmos in the formation of the center of the flower, which develops a crown or crest, like an anemone, the guard petals remain the same.

Crimson. White Queen.
Pink Beauty. Mixed.
Each of the above, pkt. 15c.

COSMOS

Klondyke—A gorgeous orange-yellow flower with very handsome foliage more coarsely lacinated than others. Pkt. 10c

*CRUCIANELLA

Stylosa—Tangled masses of elegant foliage, with crowned heads of light red flowers. Pkt. 15c

CYNOGLOSSUM (Chinese Forget-me-not)

This easily grown annual deserves to be grown quite extensively on account of its wide range of adaptation, easy culture, and attractiveness. It thrives in a dry sunny location where few other flowers will make a show and blooms continuously from June until September. No special care is required to create attractive beds or borders with it.

Sow the seed during April or May, covering it with $\frac{1}{4}$ inch of fine soil. When plants are about 2 inches tall thin to stand 6 inches apart. The plants will soon bear a mass of bright blue Forget-Me-Not-like flowers. Pkt. 10c.

CYPRESS VINE (Ipomoea Quamoclit)

CYPRESS VINE

A most beautiful rapid growing climber with delicate dark green, feathery foliage and many bright, star-shaped, scarlet or white blossoms. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber.

Seed is usually sown outdoors early in spring in the row where the plants are to remain. Cover seed one-half inch deep. Germination will be hastened if the soil is warm and kept in moist condition. Thin the young plants four to six inches apart. Tender annual; about 15 feet high.

Rose—Pkt. 5c; oz. 25c.

Scarlet—A very deep, rich shade. Pkt. 5c; oz. 25c.

White—Clear paper white. Pkt. 5c; oz. 25c.

Mixed—The two colors above. Pkt. 5c; oz. 20c.

*DAHLIA

A favorite for autumn flowering blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted.

Seed may be sown in spring in open ground after danger of frost is over, but for best results sow in shallow pans at any time from March to June, and transplant the seedlings to small pots. When strong enough and danger from frost is over plant out one foot apart. These plants will produce tubers which should be taken up in the fall and replanted the following spring; these roots will flower freely the following autumn. Tender herbaceous perennial, three to four feet high.

Finest Double Mixed—Seeds saved from choicest double flowers, including shades of red, pink, dark maroon, yellow, white, etc. Pkt. 15c.

Finest Single Mixed—Will produce brilliant flowers running through a wide range of striking colors. Pkt. 10c; oz. 50c.

Finest Cactus—From the best varieties, mixed. Pkt. 10c.

Collarette—Our special strain of Collarette varieties contains a great variety of distinct shades and colors, the majority being equal in form to named varieties. Pkt. 10c.

All Varieties Mixed. Pkt. 10c.

DAHLIA BULBS (See pages 62 to 65)

*DAISY

Daisy, or *Bellis Perennis*—Plants of Double Daisy will bloom the first summer and will continue to bloom for years if given slight protection during the winter. They are very pretty when in bloom, and deserve to be grown much more than they are. They commence blooming in April and continue to bloom until summer. They are not very particular as to soil, but should be grown where they have partial shade.

Double Red. Pkt. 10c.

Double Rose—Finest strain. Pkt. 10c.

Double White—Clear white. Pkt. 10c.

Double Mixed—Shades of rose and white. Pkt. 10c.

*SHASTA DAISY

A fine perennial plant bearing large white single blossoms, with yellow centers; an excellent cut flower and admired everywhere. Soak seed in warm water over night before sowing. Pkt. 10c.

*DATURA

Large branching plants producing very large, handsome double or single, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering.

Seed may be sown outdoors after danger of frost is over, but for early blooming sow in hotbed and transplant about three feet apart each way. Roots can be kept all winter in cellars. Tender annual; three feet high.

Wrightii—Pure white at the center shaded into lilac and blue; magnificent large single flowers. In warm latitudes can be continued as a perennial. Pkt. 10c.

*DELPHINIUM

Delphinium—Hardy Larkspur. Very decorative border plants ranging in height from the 18-inch Cashmerianum to the stately Hybrids, 6 to 6 feet tall, whose side shoots flower after the main spike has finished, thus prolonging the blooming period. If the flower spikes are removed as soon as they fade, new ones will continue to appear, at intervals all summer. The colors run from pure white to darkest blue. Some varieties have a black center, others show a pleasing contrast, in shades of blue, between the inner and outer petals. Stake all varieties when 18 inches high to prevent them from blowing down.

Butzer's Portland Hybrids—This mixture is a wonder. The plants are strong and vigorous. The flower spikes are tall and graceful, covered from bottom to top with the most beautiful holyhock like flowers. The colors are from the palest lavender to the richest blue, some with white centers, others with black, reminding one of bees at work. Pkt. 25c

Rose City Hybrids—This strain is especially grown, the seed being saved from selected plants. Many of them are double flowered, and range in color from pale lavender to indigo-blue. Pkt. 15c.

Belladonna—Light Blue. 2 feet. Flowers exquisite shade of turquoise blue. Pkt. 15c.

Belladonna—Dark Blue. Pkt. 15c.

Chinese Album—White. Pkt. 5c.

Cardinale—Brilliant scarlet. Pkt. 10c.

Chinese Dark Blue. Pkt. 5c.

Chinese Blue Butterfly. Pkt. 5c.

Finest Mixed. Pkt. 5c.

DIANTHUS—See Pinks.

DIDISCUS (Blue Lace Flower)

Coruleus—This pretty and interesting annual blooms most profusely from July until November; also used extensively for early spring flowering in a cool green house; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time. Pkt. 15c.

DIGITALIS (See Foxglove)

DIMORPHOTHECA

(African Golden Daisy)

Aurantia—(Golden Star of the Veldt)—1 ft. Rare and very showy annual from South Africa, having daisy-like flowers of a glossy salmon-orange shade with black central ring, a lovely color when flowers open in the sun. Pkt. 10c, $\frac{1}{4}$ oz. 30c.

Dimorphothea—New Shades—Salmon Beauty, White Beauty, Golden West, Orange, Mixed. Per pkt. 10c

Those Marked * are Perennials

DOLICHOS (Hyacinth Bean)

Princess Helen—(Daylight)—Snow white flowers followed by silvery white seed pods. 1 oz. 25c; Pkt. 5c.
Purple Soudan—(Darkness)—Attractive rose-violet flowers with dark ruby-purple seed pods. 1 oz. 25c; pkt. 5c.

Mixed, all colors—2 oz. 35c; 1 oz. 20c; pkt. 5c.
Echinocystis Lobata—See Wild Cucumber.

*EDELWEISS

Leontopodium Alpinum—4-12 in. June-July. The true and famous Edelweiss of the Alps. The flowers are of downy texture, pure silver white and star-shaped. Succeeds in almost any soil with full exposure to sun. Per pkt. 25c

*ERIGERON (Flea Bane)

Valuable summer flowering plants with elegant single aster-like flowers, much prized for cutting.

Elatier Speciosus Hyb. Grandiflorus—Large flowers, rich purple. Pkt. 20c

Elatier Grandiflorus—Rosy. Pkt. 20c.

*ERINUS

Alpinus—Pretty rosettes of foliage and racemes of rosy purple flowers. A first rate rock plant and also invaluable for establishing on old walls or between steps. 4 in. May-June. Per pkt. 35c

*ERODIUM

Manescavi—Handsome dwarf perennial, producing an abundance of small Pelargonium flowers, bright crimson-purple, delicate fern-leaved foliage. 18 in. June-Aug. Per pkt. 15c

*ERYSIMUM

Pulchellum (Fairy Wallflower)—A new dwarf species forming close mats of dark green, later eclipsed with yellow bloom. Sandy soil. Per pkt. 15c

ESCHSCHOLTZIA

Eschscholtzia, or California Poppy—A hardy annual, with fine-cut, feathery foliage and beautiful velvety cup-shaped flowers. Grows from one to one and a half feet high, and blooms profusely. Seed may be sown in the fall, and any time thereafter till April, and blossoms may be had from early in January till late in summer. Of the easiest culture. Any soil will do, but the better the soil the larger the plants and blossoms. It is best to sow the seed in the garden, where the plants are to remain, as they do not transplant easily.

Alba (Pure White). Pkt. 5c.

Canaliculata Rosea—Rosy pink. Pkt. 5c.

Carmine King—Deep carmine. Pkt. 5c.

Chrome Queen—Amber yellow. Pkt. 5c.

Crimson—Carmine crimson. Pkt. 5c.

Dainty Queen—Coral pink on cream ground. Pkt. 5c.

Golden West—Yellow orange center. Pkt. 5c.

Lovely—Rose pink suffused salmon. Pkt. 5c.

Mikado—Orange crimson. Pkt. 5c.

Purple Glow—Reddish purple. Pkt. 5c.

Scarlet Beauty—Deep scarlet. Pkt. 5c.

Tango—Bronze red overlaid Terra Cotta. Pkt. 5c.

The Geisha—Inside petals brilliant gold, outside orange crimson petals fluted. Pkt. 10c.

Mixed—An excellent mixture producing deep yellow creamy white, scarlet and orange flowers. Pkt. 5c; oz. 40c.

FORGET-ME-NOT (Myosotis)

Half-hardy perennial, which flowers the first year from seed if sown early. Will bring forth lovely blossoms throughout the whole summer and fall. Flowers are borne on long stiff stems, and of the most exquisite colors. They succeed best with moisture in a somewhat shaded position.

Blue. Pkt. 5c. Pink. Pkt. 10c.

White. Pkt. 5c. Mixed. Pkt. 5c.

FOUR O'CLOCK

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. 20c

Those Marked * are Perennials

*FOXGLOVE (Digitalis)

Digitalis—A hardy perennial, blooming the second year from seed. Grows usually about 3½ feet, although in very rich soil sometimes 6 feet. The bell-shaped flowers are borne on long spikes, and come in shades of purple, lavender, rose and white, all spotted lightly inside the blossoms. Thrives best in cool, shady locations.

The Shirley Gloxiniaflora—A magnificent strain of the highest beauty, the results of many years of careful re-selection by the Rev. W. Wilks in his famous garden at Shirley; growing 5 to 7 ft. high, the 4-ft. long inflorescences bearing enormous flowers ranging from pure white to the deepest rose, and wonderfully blotched and spotted dark maroon, crimson and chocolate.

Pkt. 25c

Lutzi—Salmon, white, rose, purple or mixed. Pkt. 10c

*GAILLARDIA (Blanket Flower)

Both the annual and perennial varieties of Gaillardia are very showy and free bloomers all summer long until frost; good in any situation and easily grown. The individual flowers are of large size, very durable, and most brilliant in color; fine for bouquets. 2 to 3 ft.

*GAILLARDIA (Grandiflora)

*Dazzler—Large flowers up to 5 inches across, bright golden yellow with rich maroon red center, fine for cutting. Pkt. 25c

*Portola Hybrids—The plant is of strong, vigorous, erect habit of growth, from 2½ to 3 ft. high; the stems are strong, and stiff, holding the flowers erect; these are of large size, nearly 4 inches in diameter, the petals being very broad and overlapping, of great substance, and spread out flat, forming a very regular flower; in color a brilliant scarlet with coppery hue which is intensified by the golden yellow with which each petal is heavily tipped. Comes about 50% true from seed. Pkt. 25c

*Stand-Holder—Large flowers, more or less yellow bordered, and with lighter or darker red wings around the center. The petals are broad but occasionally tubular with an inclination to doubleness. Blooms early and the stems are stiff and long. Pkt. 25c

*Grandiflora (Perennial)—A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage. In coloring the flowers are as rich and varied as those of the tall-growing sort. Pkt. 10c; oz. 50c

All the following Picta sorts are most elegant annuals and well deserve generous plantings.

Picta—Red and yellow; very brilliant. Pkt. 5; oz. 50c

Picta, Lorenziana—Double; mixed colors; flowers large. Pkt. 5c; oz. 50c

Picta, Mixed—Finest colors. Pkt. 5c; oz. 50c.

GAURA

Lindheimeri—3 ft. A graceful plant bearing numerous spikes of rosy white flowers from July until frost. Pkt. 10c

GERBERA (Transvaal Daisy)

Jamesoni Hybrids—They are half-hardy perennials, usually grown as greenhouse or window plants. The daisy-like blossoms, 2 to 4 inches across, being borne on long stems, are unsurpassed as cut flowers, as they are of wonderful lasting quality. For garden culture in cold climates the plants are wintered over in cold frames like pansies, etc. They are easily grown from seed and will commence flowering the first year, although old plants will produce the greater abundance of bloom. The colors include a galaxy of incomparable delicacy and richness, in which a wilderness of tints from pure white through yellow, orange, salmon, rose, cerise and ruby-red to violet are represented. Does remarkably well in California. Pkt. 25 seeds, 25c

***GEUM**

Handsome hardy perennials; bloom freely all season; fine for bouquets. 1½ ft.

Mrs. Bradshaw—A brilliant scarlet-cardinal flower the size of a large carnation, which it somewhat resembles. Pkt. 10c

Lady Strathedon—Flowers rich golden yellow. Pkt. 25c

GILIA

A hardy annual, growing 12 inches high, small delicate flowers valuable for rock work or borders. Tall Sorts, Mixed. Pkt. 5c, ½ oz. 15c

***GLOBULARIA (Globe Daisy)**

Shrubby plants for the hardy garden or rockery, producing fluffy balls of blue flowers during the summer. They all require light soil in a warm, sunny position. **Trichosantha**—Dark blue. 12 in. Pkt. 20c.

GODETIA—Dwarf

A hardy annual, very valuable for bedding and borders. For mass effects in shades of rose, red or pink it is unexcelled. The satiny cup-shaped flowers cover the compact-growing plants. The seed should be sown in the fall or early spring.

Brilliant—Carmine rose. Pkt. 5c.
Crimson Glow—Crimson. Pkt. 5c.
Duchess of Albany—White. Pkt. 5c.
Gloriosa—Blood red. Pkt. 5c.
Lady Satin—Rose. Pkt. 5c.
Mandarin—Yellow. Pkt. 5c.
Rosamond—Shell pink. Pkt. 5c.
Scarlet—Edged white. Pkt. 5c.
Mixed—Pkt. 5c.

GODETIA

Schamini Type—Tall Double, very fine
Carmine—Pkt. 5c.
Crimson—Pkt. 5c.
Mauve—Pkt. 5c.
Rose—Pkt. 5c.
Rosy Morn—Deep rose. Pkt. 5c.
Finest Mixed of above—Pkt. 5c.

GOURDS (Ornamental)

These are desirable in many places where an immense amount of vine is wanted quickly. The blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful. The small fancy gourds are excellent toys for children, while the larger gourds may be used as dippers, sugar troughs and bowls.

Bottle—The original Thermos bottle. Used by the pilgrims of the Orient. Pkt. 5c
Calabash or Pipe Gourd—Odd-shaped fruit which is used to an advantage in making pipes. Pkt. 10c
Dishcloth or Towel—Many women prefer a dishcloth made of this Gourd to anything else, as it is always sweet and clean as long as any part of it is left. Pkt. 5c

Hercules Club—Fruit grows 3 to 4 ft. long. Pkt. 5c
Nest Egg—Fruit looks exactly like a hen's egg and may be used as nest eggs. Pkt. 5c
Pear Shaped—Striped yellow and green. Pkt. 5c
Sugar Trough—Thick shells, very durable. Pkt. 5c
Large Varieties Mixed—Pkt. 5c; oz. 25c.
Small Varieties Mixed—Pkt. 5c; oz. 25c.
All Varieties Mixed—Pkt. 5c; oz. 25c.

Those Marked * are Perennials

GREVILLEA

Robusta (Silk Oak)—1 to 5 ft. It is easy to manage, grows rapidly from seed, and is pretty in all stages of growth; with its long, drooping, silky foliage it reminds one of a palm or fern. Pkt. 10c

GYPSOPHILA

Graceful plants of light fairy-like growth. Much in demand for cutting and combining with other flowers for bouquets and vases.

Elegans Grandiflora Alba (Angel's Breath)—This is an improved, large-flowering, pure white, of free, easy growth. Several sowings should be made during the season to keep up a supply. Pkt. 5c; ½ oz. 20c; oz. 30c

Elegans Carminea—Pkt. 5c.

Elegans Rosea—Soft pink. Pkt. 5c.

Muralis—6 in. A lovely little rock or edging plant with rose-pink flowers. Pkt. 10c

***GYPSOPHILA (Perennial)**

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

***Paniculata Flore Pleno (Perennial)**—A great improvement on the single-flowered type and more lasting, the flowers forming miniature balls of white petals. Not quite fixed, but about 25 per cent come true. The plant is difficult to propagate by division, and seedlings prove much more vigorous. Pkt. 10c

***Repens**—Dwarf white, fine for rockery. Pkt. 15c

***HELENIUM (Sneezewort)**

Late-flowering hardy perennials; broad heads of elegant, golden-yellow flowers; fine for cutting. 5 to 6 ft. **Autumnale superbum**—Pkt. 10c.

***HELIANTHEMUM**

Mutabile (Rock Rose)—Low-growing evergreen plants forming large clumps, completely covered with bloom during July and August. Pale rose changing to lilac then to white. 8-12 in. Excellent for rockeries. Mixed colors. Pkt. 10c

HELIANTHUS (Sunflower)

Hardy annuals, of stately growth, remarkable for the size and brilliancy of their flowers. Very useful as cut flowers. Effective in forming background of large beds or borders and for distant effect.

Chrysanthemum Flowered—Perfectly double; the color is the brightest golden yellow. The flowers are so perfect in form that they resemble very much double Chrysanthemum-Flowered Asters, with long stems; grows seven feet high, and bears profusely all summer long. Pkt. 5c; Single, all colors. Pkt. 5c

Nanus Flore Pleno—2½ feet. Double dwarf, beautiful for massing in beds. Pkt. 5c

Russian Mammoth—Single, of gigantic dimensions. For larger amounts see Farm Seed pages. 1 oz. 5c

Miniature-Flowered Sunflowers—The varieties of *Helianthus cucumerifolius* form spreading bushes with small graceful foliage and bear a multitude of small elegantly formed flowers, which are borne for a long time in succession, and are invaluable as cut flowers. Pkt. 10c; oz. 40c

***HELIANTHUS (Hardy Sunflower)**

Hardy, perennial Sunflowers flourish splendidly in any garden, city or country. They are a beautiful race of sturdy, showy plants, invaluable for cutting, as they last so long in water.

Angustifolius (Autumn Glory)—5 to 7 ft. The great massing branches are a sheet of solid bloom of the clearest and richest golden yellow. Flowers are like great daisies flecked with gold. Blooms very late in season after frost has killed everything else. Per pkt. 15c

**HAVE YOU ORDERED
 YOUR SWEET PEA
 COLLECTION?**

SEE PAGE 55

HELICHRYSUM (Everlasting Flower)

A free-flowering, hardy annual, growing four to five feet high and bearing beautiful straw-like flowers in a great variety of shades and colors. The stems are long and the blossoms large. It is the best and most satisfactory of the everlasting flowers, and makes a very handsome dried bouquet.

Rose Carmine. Pkt. 5c.
Crimson. Pkt. 5c.
Rose Queen. Pkt. 5c.
Fireball. Pkt. 5c.
Salmon Queen. Pkt. 5c.
Silverball. Pkt. 5c.
Violet Queen. Pkt. 5c.
Goldenball. Pkt. 5c.
Finest Mixed. Pkt. 5c.

Flowering Heliotrope Plants (from seed grown in spring)—It is but little known that seed sown in February and March will produce large flowering plants the first summer. Our mixture contains seeds from many named sorts, and will produce fine plants with proper treatment.

Mammoth Flowering. Pkt. 10c.

***HEUCHERA** (Coralbells)

Beautiful plants for front row of borders, with slender, fairy-like spikes of richly colored flowers; most striking in the garden and light and graceful for cutting.

Sanguinea Hybrida Grandiflora—New large flowered hybrids, very fine. **Per pkt. 25c**

***HIBISCUS** (Rose Mallow)

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

Golden Bowl—Deep cream, with a velvety maroon center. **Pkt. 10c**

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

***HIERACIUM**

Villosum (Shaggy Hawkweed)—12 in. July. Plant is covered with a white silkiness effective for its large golden yellow flowers and silvery foliage, suitable for rock work. **Per pkt. 15c**

***HOLLYHOCK**

A hardy perennial of upright, stately growth, five to eight feet high. The very double varieties are the most desirable, but the newer, semi-double, fringed types are also very popular. Hollyhocks make a fine row in the garden, or a fine background next to a building or high wall or fence.

Allegheny—Mixed. The semi-double, fringed variety. An artistic and pretty sort. **Pkt. 10c**

Double Varieties—White, Maroon, Rose, Scarlet, Salmon, Yellow, Crimson, Blood-red. **Each color, pkt. 10c**

Newport Pink—The finest pure pink, exquisite shade. **Pkt. 10c**

Double Varieties, Mixed—Pkt. 5c.

HONESTY (See Lunaria)

HYACINTH, Bean (See Dolichos)

IBERIS (See Candytuft)

USE PEAT MOSS—See Page 88

ICE PLANT

Mesembryanthemum Crystallinum—6 in. Foliage very ornamental, being covered with ice-like globules and prized for garnishing; a valuable plant for dry, sunny situations on banks, rockwork, old walls and ruins, etc., also for sunny borders. **Pkt. 5c**

***INCARVILLEA**

Grandiflora—Likes a sunny situation, spikes of elegant Gloxinia-like flowers. Finely cut foliage. **Pkt. 10c**

***INULA**

Ensifolia—9 in. July-Sept. Vigorous plant and a continuous bloomer with large yellow aster-like flowers and rather coarse foliage. **Per pkt. 25c**

IPOMOEA (See Moonflower)

JOB'S TEARS "COIX"

KOCHIA

Kochia (Standing Cypress, or Belvedere)—An easily grown annual, which, sown thinly in spring, soon forms a cypress-like hedge of the most lively green and of perfect symmetry; by mid-summer it attains a height of about three feet, and on the approach of autumn the whole plant becomes a deep red.

Pkt. 5c; ¼ oz. 25c

***KUDZU VINE** (Pueraria Thunbergiana)

A new climber of great merit. This vine is one of the most rapid climbers there is, growing to 20 feet quickly. Called also Jack-and-the-Bean-Stalk. Hardy perennial.

Pkt. 10c; oz. 50c

LANTANA

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

LARKSPURS

This is one of the best known garden flowers. A vast improvement has been effected, by careful selection and attentive cultivation, in size and color of the blossoms and the general habit of the plant. Hardy annuals. (For Perennial Larkspurs, see Delphinium.)

Tall Double Stock Flowered—White, Lilac, Rose, Flesh, Dark Blue, Finest Mixed. Each of above, **pkt. 5c**

LARKSPUR LA FRANCE

This is a Larkspur novelty of real merit. The La France is the most striking color of all and without question is the most outstanding novelty for 1929. The flowers are of a pleasing salmon-pink. The large well-formed double flowers are well placed on the long stems to set off its attractions. La France Larkspur presents a beautiful appearance, which has won nothing but praise from all who have had the pleasure of seeing it in bloom. We believe that this will be the most popular annual. **Per pkt. 15c**

*LATHYRUS LATIFOLIUS

(Hardy Pea)

Very decorative climbing vines of the Pea family, for growing on fences, trellis, etc., as floral screens and for cutting. Blooms all summer.

- Pink Beauty—Pale pink variety. Pkt. 10c.
 Rubra—Bright rosy crimson. Pkt. 10c.
 White Pearl—Large-flowering white. Pkt. 10c.
 Mixed—The above colors. Pkt. 10c.

LAVATERA

The Lavateras or Annual Malloes are showy and effective plants covered during the entire summer with bloom. For large borders and cutting they are very desirable.

- Splendens Alba—Very large, silky, pure white flowers. Pkt. 10c.
 Splendens Rosea—Very large, bright rose flowers. Pkt. 18c.
 Splendens Mixed. Pkt. 5c.

LEPTOSIPHON

French Hybrids—Free flowering hardy annuals useful for edging and rockwork. Plants are thickly studded with charming bright flowers of various colors. Pkt. 10c

LEPTOSYNE

Stillmani—1½ ft. One of the quickest annuals, blooming within five weeks from date of sowing, and the golden-yellow flowers continue in perfection for a long period. Excellent for cutting. Pkt. 10c

Maritima—3 ft. Large lemon-yellow Marguerite-like flowers on long stalks. Pkt. 10c

*LILIUM REGALE

The Regal Lily—It is absolutely hardy, and is excellent for forcing. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy, oppressive odor of most lilies. Blooms out of doors early in July, and seedling bulbs will flower the second year. Lift the bulbets in fall and replant to greater depth in their permanent location. Pkt. 25c; ½ oz. 50c; oz. 75c

- Lilium Auratum—Pkt. 25c
 Lilium Cordifolium—Pkt. 25c.
 Lilium Elegans—Pkt. 25c.
 Lilium Japonicum—Pkt. 25c.
 Lilium Platyphyllum—Pkt. 25c.
 Lilium Tenuifolium—Pkt. 25c.
 Lilium Washingtonianum—Pkt. 25c.

*LINARIA (Toad Flax)

Showy free-flowering plants of a trailing habit. Good for borders, window boxes or rockeries.

Cymbalaria (Kenilworth Ivy)—3 in. Dainty lilac and orange; flowers throughout summer; trailing habit. Per pkt. 10c

LINUM

Grandiflorum Rubrum (Crimson Flax)—2 ft. One of the most brilliantly colored of summer annuals, flowers glowing crimson-rose. Very beautiful in beds and borders, and may be had in bloom from May to October by successive sowings. Pkt. 5c

LOBELIA

A hardy annual and hardy perennial. The annual grows four to six inches high, is of compact growth, and literally covered with small bright flowers. By cutting back the plants during the summer and giving plenty of water, they may be kept in flower all summer. Used for ribbon work and borders or hanging baskets.

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

The following variety is especially effective in hanging baskets or window boxes, where a long drooping effect is desired.

- Speciosa—True dark blue, dark foliage. Pkt. 10c.
 Sapphire—Large, deep blue flowers, with a pure white eye which occupies one-third of the corolla. Pkt. 15c
 Love in the Mist—See Nigella.

Those Marked * are Perennials

LUNARIA

Annua (Biennis) (Honesty or St. Peter's Penny)—Flowers purple, followed by silvery seed pods, prized for winter decoration. Annual but readily self-sows. Per pkt. 10c

LUPINUS

Tall Annual Varieties Mixed—2 ft. Ornamental, free flowering, easily grown, with long graceful spikes of rich and variously colored pea-shaped flowers; valuable for mixed flower borders and beds. Pkt. 5c; oz. 20c
 Dwarf Annual Varieties Mixed. 1 ft. Pkt. 5c; 1 oz. 20c

*LUPIN (Perennial)

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom.

Polyphyllus (Old-fashioned Garden Lupin)—Blue. 3 ft. Stately spikes of blue, flowers all summer. Pkt. 10c

- Albus—Large pure white spikes. Pkt. 10c.
 Roseus—4 ft. Light and dark rose flowers on long stem; fine for cutting. Pkt. 10c
 Mixed—Splendid value. Pkt. 10c.

*LYCHNIS

Alpina—Close tufts, olive green foliage, clusters of rose colored flowers. Pkt. 20c

MALOPE (Mallow-Wort)

Showy plants for large mixed flower and shrubby borders. The flowers are large and handsome.

Grandiflora Mixed—Pkt. 10c.

MALLOW (See Lavatera)

MARIGOLD

A hardy annual, shrubby plant, in dwarf and tall varieties, growing from six inches to three feet high. Foliage bright green, deeply cut, and graceful. The flowers are various shades of yellow and brown. The tall varieties are very valuable for large bedding or background work, and the dwarf varieties for borders.

AFRICAN MARIGOLDS

El Dorado—Large double imbricated flowers in all shades of yellow; 3 ft. Pkt. 5c

Lemon Ball—A counterpart of Orange Ball, except in color, which is a soft lemon-yellow. Pkt. 5c

Orange Ball—Large, perfect double-quilled flowers, of a rich deep golden-orange color; the finest of all and very showy. Pkt. 5c

Finest Mixed—Pkt. 5c.

DWARF DOUBLE AFRICAN MARIGOLDS

Few annuals are as effective as the French Marigolds or flower for so long a period; they all form dense bushes not over 12 inches high, and are unequalled for borders or beds.

Dwarf Orange Ball—A splendid pure golden yellow, flowers of good size and makes a very effective golden line or bed. Pkt. 5c

Dwarf Lemon Ball—Similar to the above except in color, which is a light lemon-yellow. Pkt. 5c

Dwarf Finest Mixed—Pkt. 5c.

FRENCH VARIETIES

Dwarf Dark Brown—Beautiful reddish brown. Pkt. 5c

Dwarf Legion of Honor—Brown, spotted yellow. Pkt. 5c

Finest Mixed—Pkt. 5c.

MARVEL OF PERU (See Four o'Clock)

MATTHIOLA

Bicornis (Evening-scented Stock)—15 in. The flowers in the morning, evening and after a shower emit a delicious perfume perceptible at a considerable distance. Pkt. 10c

MATRICARIA

Capensis Fl. Pl. (Feverfew)—3 ft. Neat, small, double white quilled flowers, well adapted for bedding and cutting. They are perennials in mild climate. Pkt. 10c

Eximia, Golden Ball—1 ft. Of compact habit, suitable for edging, with very striking double yellow flowers. Pkt. 10c

MIGNONETTE (Reseda)

A well-known fragrant favorite, and no garden is complete without a bed of Mignonette; sowings made in April and again in July will keep up a succession from early summer until frost; can also be grown in pots for winter and early spring flowering.

Sweet-Scented (Reseda Odorata)—The old-fashioned variety with small spikes, but the most sweetly scented of all. Pkt. 5c; oz. 15c

Machet—Adapted for pot culture; dwarf pyramidal growth, bearing numerous flower stalks; highly colored and very fragrant. Pkt. 10c; ¼ oz. 25c; oz. 75c

Red Goliath—Of strong, yet compact habit, with rich green foliage; the giant trusses of flowers being borne on erect, strong, stiff stalks and surpassing all others in brilliancy of color; especially suited for house culture. Pkt. 10c

MINA

Lobata—12 ft. A climber of luxurious growth, with tube-shaped flowers; produced in greatest profusion. In color they are particularly attractive, the buds being first bright red, but changing through orange-yellow to creamy white when fully expanded. Pkt. 10c.

MOON FLOWER — IPOMOEA

Grandiflora Alba—(Moon Flower)—Large white blossoms, five to six inches across, which expand at night. Pkt. 10c

Moon Flower—(Sky Blue)—Of strong, vigorous growth, the plants quickly attain a height of twelve to fifteen feet. Pkt. 10c. Fine Mixture—Pkt. 5c

MORNING GLORY

Tall Morning Glories Mixed—A great variety of colors of the old-fashioned, popular, rapid-growing climber. Oz. 15c; pkt. 5c.

Dwarf Morning Glories Mixed—Hardy annual, one foot in height. Colors range from pure white to deep purple. Oz. 20c; pkt. 5c.

Imperialis (Japanese Morning Glory), Fine Mixed—The Japanese Morning Glory requires a warm situation to do well. The south side of a wall or building where the plants are protected from the north and west winds will mostly be found beneficial for these vines. ¼ lb. 55c; 1 oz. 25c; ½ oz. 15c; pkt. 10c.

Setosa (Brazilian Morning Glory)—A summer climber, making a dense shade. Flowers rose colored; three to four inches in diameter. Pkt. 5c.

NASTURTIUMS, Dwarf

They are suitable for a bedding and edging, grow quickly and furnish the greatest abundance of long lasting, sweet scented cut flowers. Sometimes it is desirable, when carrying out a color scheme, to use but one variety of Dwarf Nasturtiums for an edging. Empress of India is particularly good when used in this way, as the dark-leaved plants are of an even height and the flowers are in rich velvety red.

Aurora—Chrome yellow blotched crimson.

Beauty—Scarlet splashed canopy.

Bronze—Reddish golden brown.

Cloth of Gold—Scarlet, yellow foliage.

Empress of India—Deep crimson, dark leaved.

Golden King—Indian yellow, dark leaved.

King of Tom Thumbs—Deep scarlet, dark leaves.

King Theodore—Rich red, dark, dull foliage.

Spencer David Burpee—Wavy green foliage, scarlet flowers.

Price, any of the above sorts, pkt. 5c; oz. 15c; ¼ lb. 50c.

Dwarf Nasturtiums Mixed—This splendid mixture contains all the named varieties and every color. No finer mixture can be made. They will produce enormous flowers on long stems, in a wonderful variety of colors. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

Use STIM-U-PLANT

NASTURTIUMS

DWARF "IVY-LEAVED"

All Colors in Mixture—This mixture, like the Tall Ivy Leaved Mixture, contains a most remarkable range of colors. There are colors and color combinations that are not found in any other strain of Nasturtiums. It is indeed a glorious mixture! Every one who grows Nasturtiums should plant at least a packet of the seed, in order to become acquainted with this grand new type. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00, postpaid

TALL IVY-LEAVED NASTURTIUMS

The plants are of running growth, with star-like pointed leaves of rich green, veined with white, so that the young shoots, where the leaves are set closely together have a marked resemblance to the foliage of the hardy English Ivy. The flowers are of medium size and of most distinct form. The petals are quite narrow, and standing well apart from each other, present a striking star-like appearance. Many colors mixed. Pkt. 10c; oz. 20c; ¼ lb. 60c.

NASTURTIUMS, TALL OR TRAILING

These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. They are very showy, also, planted at the top of a steep slope and allowed to run down the bank.

Butterfly—The color is a light lemon-yellow, marked on the three broad lower petals with a blotch of rich terra cotta red. The two upper petals are marked in shades of bright red. Pkt. 5c; oz. 15c; ¼ lb. 50c

Cameleon—Not only are the flowers of various colors produced on the same plant, but these flowers are variously splashed and bordered. On the same plant are found self-colored flowers, some curiously stained, while others are banded with light or dark shades. Pkt., 5c; oz., 15c; ¼ lb., 35c; per lb., \$1.20.

Cloth of Gold—This fine variety is outstanding because of the contrast of the velvety maroon flowers against the golden yellow foliage.

Pkt. 5c; oz. 15c; ¼ lb. 50c

Moonlight—Exquisite light straw-yellow flowers of unusual size borne in great profusion.

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

Sunlight—The flowers, of largest size, are most beautifully colored—clear, rich, golden yellow. Individual flowers measure nearly three inches across, and are produced most profusely.

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

Twilight—The flowers are extra large and most pleasing in color, having a faint salmon or buff tint, heavily suffused with rosy salmon.

Pkt. 5c; oz. 20c; ¼ lb. 60c

Tall Scarlet—The flowers are of magnificent size and of compact, rounded form. The color of the flowers is a magnificent bright scarlet.

Pkt. 5c; oz. 15c; ¼ lb. 50c

BUTZER'S ROSE CITY MIXTURE OF TALL

NASTURTIUMS

This mixture is absolutely unequalled; nothing better to be had anywhere. In it will be found all the choicest colors of tall Nasturtiums, of all the new shades, as well as the standard sorts.

Pkt. 5c; oz. 10c; ¼ lb. 30c

NIGELLA

(Love in a Mist, or Devil in the Bush)—A compact free flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and mixed; one foot.

Mixed. Pkt. 5c.

Double White. Pkt. 5c.

Double Blue. Pkt. 5c. Double Purple. Pkt. 5c.

NEMESIA—1 foot

Free-blooming dwarf bushes for pot culture and open borders. Sow in spring under glass, and transplant; or sow out of doors in May, in patches, where they are intended to flower.

Large Flowered Mixed—1 ft. Is the finest strain of the most popular flower, both for size and massive build of the individual flowers, also for the richness and variety of colors. Pkt. 10c

NEMOPHILA (Baby Eyes)—6 inches

Hardest of annuals, and of the easiest culture. Makes a very effective front row to a bed or border, and should be sown out-of-doors in spring, in patches, where they are to flower.

Insignis Mixed, all colors—Cup-shaped flowers in many bright colors, the blue shades being particularly attractive. Pkt. 10c

NEPETA

These little plants give clouds of bright blue flowers all summer. Makes a fine permanent edging and an excellent rock plant.

Mussini—May-September. Light blue. 1 ft. Pkt. 10c

NICOTIANA (Sweet Scented Tobacco Plant) 2 ft.

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia blossom, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

Nicotiana Affinis Hybrids—Mixed Colors. Pkt. 10c

Affinis—The popular free-flowering variety; fragrant star-shaped white flowers; annual, 3 feet high. Pkt. 5c

NIEREMBERGIA

Gracilis—6 in. Flowers white, shading to and veined lavender, an exceedingly graceful plant for hanging baskets, rockwork, etc. Pkt. 10c

***OENOTHERA**

These open their flowers in the evening and one can enjoy a thrill in his garden if he will sit for 15 minutes at twilight and watch the Evening Primroses (*Oenothera*) drop their calyx and unfold their petals. We have had a plant in our garden. The buds are closed when we start the hose going, but before we get through, presto! a wealth of large golden blooms greets us and bids us "good-night."

Lamarackiana Evening Primrose, Mixed—1/2 to 2 ft. Neat plants, with large, saucer-shaped flowers, white or golden-yellow; open at dusk; emit a delightful perfume. Pkt. 10c

Missouriensis (Macrocarpa)—1 ft. Long trailing stems with large yellow flowers. Per pkt. 10c

**PANSY
MASTODON**

Mastodon—A mixture of Pansies, unrivaled for diversity of coloring and marking. This mixture is made up from over 100 of the finest named varieties grown by Pansy specialists of the Old and New World. In making up this mixture, expense is not regarded. Our aim is to possess the finest mixture of Pansies obtainable. We have never seen its equal. The diversity of coloring and marking is almost beyond belief. We will cheerfully return money paid for this mixture to any one who says it is not the finest they ever saw. Pkt. 10c

TRIMARDEAU PANSIES

The Trimardeau is a superior race of robust, deep-rooting plants bearing fine large flowers of the great variety of colors. We have discarded all other separate colored pansies for the Trimardeau strains, and we know they are the most satisfactory.

Giant Trimardeaux—Mixed. Pkt. 10c.

MASTERPIECE

Masterpiece (Fruiled Pansy)—A remarkable type, each petal being conspicuously curled or waved. The range of color is very extensive, the rich, dark, velvety shades predominating. Pkt. 10c

BUTZER'S GIANT MIXED PANSIES

This seed produces the largest, richest and best formed flowers of any we have ever offered, and we believe, from our own trials, there is no better pansy mixture to be had anywhere or at any price. Pkt. 10c

BUTZER'S ROSE CITY GIANTS

The plants distinguish themselves by their robust growth, and form compact bushes of round shape, with strikingly large, healthy looking foliage.

The imposing five-spotted flowers which on long, vigorous stalks surmount the foliage in the most graceful manner, are of enormous size, perfectly round form, original structure and unusual substance. The individual petals are exceedingly broad and cover each other in such a manner as to make the flowers appear almost double. With most of the flowers the border of every petal being conspicuously undulated and curled, which grants the flowers a striking and very peculiar appearance, entirely new to this class of plants.

The beauty, brilliancy and richness of color being the most striking; also very rare and new tones of red and brown are met with in these flowers. Pkt. 25c

AUREOLA

The lower three petals of rose, carmine or purple-red ground-color, with very effective large dark-spots; the upper two petals of lighter coloring, whitish to yellow, with rose to dark red border; a charming mixture of colors. Pkt. 10c

BUGNOT'S GIANT SPOTTED

Very large and magnificently colored, extra fine quality. Pkt. 10c

BUTZER'S MAMMOTH FIVE BLOTCHED from named varieties. The immense flowers of this class, resembling Cassier's but being of almost double the size, full round form and comprising the most magnificent colors. Pkt. 10c

CASSIER'S SUPERB STRAIN

Very large, well-formed, beautifully blotched flowers in the greatest variety of colors, extra fine. Pkt. 10c

PANSIES IN SEPARATE COLORS

Azure Blue, Sky Blue—Pkt. 10c.

Beaconsfield—Lavender, heliotrope and purple. Pkt. 10c

Cardinal—Brilliant red. Pkt. 10c.

Golden Gem—Pure yellow. Pkt. 10c.

Golden Yellow—Dark eye. Pkt. 10c.

King of the Blacks or Faust—Velvety black. Pkt. 10c.

Mad. Perret—Lovely shades of pink and rose. Pkt. 10c

Peacock—Blue with white edge. Pkt. 10c.

Snow Queen—Pure white. Pkt. 10c.

Victoria—Nearly scarlet. Pkt. 10c.

Volcano—Deep red with five large blotches; very fine. Pkt. 10c

PENTSTEMON

Flowers resemble gloxinias in shape; mottled in crimson, pink, blue and white. Mixed. All varieties. Pkt. 5c.

PETUNIA

The Petunia is without a peer among annuals for effective summer bedding or indoor culture. They are of easy culture, early to bloom and continue throughout the summer until the first killing frost. No other flower produces a great diversity of color, retaining their freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants. Provide good soil and a sunny location.

GIANTS OF CALIFORNIA, MIXED

The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. Pkt. 15c

ROSY MORN

Of compact growth, literally covered with flowers one and one-half inches in diameter. The throat is silvery white, while the edge is heavily flushed with soft rose-pink. Pkt. 10c

FINE MIXED SINGLE VARIETIES

Fine Mixed—Excellent for bedding; many colors; ¼ oz. 50c; pkt. 10c.

Hybrida Single Red. Pkt. 10c.

Hybrida Single White. Pkt. 10c.

DOUBLE PETUNIAS

Our Double Petunias are selected with the greatest of care and contain the largest percentage of double flowers possible.

Giant Double Fringed Mixed. Per pkt. 25c.

BALCONY PETUNIAS

A splendid large and free flowering type either for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

Balcony Blue—Velvety Indigo blue.

Balcony Rose—Brilliant rose-pink; very effective.

Balcony White—The pure white form.

Balcony Crimson—Rich velvety crimson.

Balcony Mixed—All colors.

Choice of above, per pkt. 10c

PHACELIA

Campanularia—3 in. A very beautiful annual, producing a terminal raceme of intense gentian-blue flowers with conspicuous white anthers; very effective for edgings, etc., and a charming pot plant. One of the earliest annuals to bloom and flowers last in perfection a long time. Pkt. 15c

BUTZER'S

ANNUAL-FLOWER MIXTURE

A splendid mixture of the true annual flowers so blended as to give a succession of bloom from early spring to late fall. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed.

If you have a piece of ground you cannot irrigate or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Annual Flower mixture. It contains a large number of different kinds of hardy varieties that will grow with the least of care, and produce great quantities of flowers.

Pkt. 15c; 2 for 25c; oz. 50c, postpaid

PHLOX DRUMMONDI

The annual Phlox is a native of Texas, and is known as "Texan Pride." It occupies a first place as a garden annual, being one of the most brilliant and at the same time one of the easiest and most satisfactory plants which can readily be grown from seed. It will grow and thrive in any kind of soil if given a sunny position, but prefers a light, rich loam. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks they are a sheet of bloom, remaining so until frost. They may be used in a variety of ways, such as a carpet to beds of Roses, in boxes, vases, etc.; but it is when grown in masses, in beds or borders, that they show to best advantage.

Crimson—Pkt. 10c.

Flesh—Pkt. 10c.

Lilac—Pkt. 10c.

Primrose—Pkt. 10c.

White—Pkt. 10c.

Rose—Pkt. 10c.

Scarlet—Pkt. 10c.

Violet with white eye—Pkt. 10c.

Finest Mixed—It is composed of the finest and most distinct varieties and will give a most varied assortment of brilliant colors. The trusses are large, well rounded, and closely formed, and the individual florets are of the largest size, firm substance, and most distinct and brilliant colorings.

Pkt. 10c; ¼ oz. 50c; oz. \$1.50

Star Phlox (Star of Quedlinburg)—Of dwarf habit with very pretty star-shaped flowers. A novel and beautiful variety. Mixed colors. Pkt. 10c

*PHLOX (Hardy)

(Decussata.) Perennial varieties mixed from a celebrated collection. Seed slow in germination and may not sprout in a year. Pkt. 10c

PHYSALIS

Franchetti (Chinese Lantern Plant)—1½ ft. Flowers yellow with dark center. Produces balloon-like husks, which turn bright red when ripe and resemble Chinese lanterns. Per pkt. 10c

PLATYCODON (Chinese Bell Flower or Balloon Flower)

Very handsome border plants of the Campanula family, the flowers in bud having the appearance of inflated balloons; they flower from June to September.

Grandiflorum—1-2 ft. Large, handsome, deep blue flowers. Per pkt. 10c

PINKS OR DIANTHUS

A magnificent genus, embracing some of the most popular flowers in cultivation, producing a great variety of brilliant colors and profusion of bloom. The varieties classed as annuals are really biennials, but are treated as annuals and may be sown out of doors when the danger from frost is past, and in a few weeks' time they are a mass of bloom, continuing so until after hard frost. As a rule, they survive the winter if given slight protection, flowering abundantly the following season. They grow about a foot high, and can be used in beds or borders of solid or mixed colors. The double flowering sorts are almost as fine as carnations for cutting. They are not particular as to soil, but should have a sunny location.

Double China (D. Chinensis fl. pl.)—Small, double flowers, borne in large clusters, of many colors, mostly with white edge. Pkt. 5c; ¼ oz. 15c

Heddewig's Double (D. Heddewigi fl. pl.)—Japan Pinks. Very large double flowers of a wide range of color, running from white and light pink through shades of red to rich, velvety crimson and deep maroon almost black. Pkt. 5c; ¼ oz. 25c

Single Mixed—Large single flowers, of rich and varied colorings. Pkt. 5c; ¼ oz. 20c

Double Japan Mixed (Chinensis laciniatus)—The flowers are rich in hue; very double, deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson scarlet, purple, brown and almost black, spotted and striped. Pkt. 10c

All varieties mixed, Pkt. 5c.

Those Marked * are Perennials

***PINKS (Hardy)**

These very desirable sweet-scented, low-growing, early-blooming and free-flowering Hardy Garden Pinks are unequaled for the borders of beds, drives, and the old-fashioned garden and should be planted in quantity in any good garden soil with full sun and an open situation.

Allwoodii—A new race of hardy plants belonging to the Dianthus family. It makes an ideal pot plant. The flowers are about 75 per cent double and appear in all colors except yellow. The single flowers are quite as handsome as the double and have the advantage of making larger clusters. It is exceptionally hardy, commencing to flower in early spring and continuing through summer and fall. Pkt. (25 seeds) 50c

Caesius (Chiff Pink)—Flowers delicate rose color, fragrant, 1 ft. or less. Seeds, per pkt. 25c

Deltoides (Maiden Pink)—6 in. Beautiful little plant with narrow leaves, with a profusion of small flowers during July and August. Per pkt. 25c

***HARDY PERENNIALS or CLOVE PINKS**

Hardy Perennials, or Clove Pinks (Plumarius)—Scott or Grass Pink. When treated like an annual, if seed is sown in March, the plants will bloom the first year. The delicately fringed, variously colored flowers are fragrant, attractive and fine for bouquets. Pkt. 10c

***PERENNIAL VARIETIES POPPIES**

Perennial poppies do best in rows one and one-half feet apart and one foot apart in the row. Seed may be sown outdoors either in spring or fall.

Alpine Mixed—6 in. A charming miniature poppy with brilliantly colored flowers including white, pink, apricot, yellow or orange-scarlet, etc. Useful for rock-work. Per pkt. 35c

Oriental Hybrids Mixed—A choice mixture of Oriental Poppies in shades of white, salmon, orange, scarlet and crimson. Per pkt. 10c

We do not furnish seed of the opium poppy.

Nudicaule (Ice land Poppy)—15 in. Mixed. Elegant free flowering plants bearing flowers in abundance all summer. Pkt. 10c

Nudicaule Yellow, Orange, White—Any color. Mixed, pkt. 10c

SINGLE ANNUAL POPPIES

Eldorado Salmon Shades—The introducer made a selection of these most popular shades and these will especially appeal to those admiring pastel shades in flowers. Pkt. 10c

Eldorado Pink Shades—Pkt. 10c.

Eldorado Mixed—The flowers are large, single, semi-double and double, and contain magnificent shades of soft salmon, orange, orange-scarlet, pink, rose and white, without any dark markings whatever. The substance of the petals in some of the lighter shades is as delicate as China silk. Pkt. 10c

Flanders Poppy—Vivid scarlet-red. This flower has in the minds of men been associated for over two hundred years with the battlefields of Flanders. Was the first official flower of the American Legion. Pkt. 10c; ½ oz. 35c; 1 oz. 60c; ¼ lb. \$2.00

Glaucum—Large tulip-shaped flowers of dazzling scarlet; not unlike a Scarlet von Thol Tulip. Pkt. 10c

DOUBLE ANNUAL POPPIES

American Flag—Flowers very large, snow white, scarlet bordered. Pkt. 5c

Double Cherry Red—Pkt. 5c.

Double Heliotrope—Pkt. 5c.

Mikado (The Striped Japanese Poppy)—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum. Pkt. 5c

Salmon Pink—Pkt. 5c.

Cardinal—A splendid dwarf variety of the carnation-flowered type, growing about two feet high and bearing large globular, fringed flowers of an intense cardinal red. Pkt. 5c

Shell-pink—Similar in every way to Cardinal and White Swan, except color, which is a soft sea-shell or chamois-pink. Very dainty. Pkt. 5c

White Swan—Immense double flowers, beautifully fringed and of purest white, of the same dwarf habit as Cardinal and Shell-pink. Pkt. 5c

Double Carnation-Flowered, Mixed—Of dazzling richness and in a great variety of colors. A remarkably pretty Poppy. Pkt. 5c; oz. 35c

POPPIES—SHIRLEY

Shirley Poppies—Silk or Ghost; have beautiful satiny flowers of various colors, all with white centers, which makes the plants very attractive. Foliage is hairy and finely cut.

American Legion—Brilliant orange scarlet. Pkt. 5c

Blue Shirley—Various shades of blue. Pkt. 10c.

Rose Shirley—Shades of rose and pink. Pkt. 10c.

White Shirley—Pure white. Pkt. 10c.

Shirley Mixed—Beautiful shades in delicate shades of rose, apricot, salmon-pink, and blush to growing crimson with a sprinkling of blues. Pkt. 10c; oz. 30c

BUTZER'S SPECIAL POPPY MIXTURE

Double and Single—Comprises not only all the Double and Single Poppies described, but also a number of other sorts specially purchased for this mixture, including some entirely new ones. Will make a grand display. Pkt. 10c; ½ oz. 20c; oz. 30c

PORTULACA—Rose Moss

Will grow and bloom abundantly all summer in a dry, hot location, where most other plants will soon die. The flowers are of the richest colors and make a beautiful border.

Culture for Portulaca—Sow in the open ground when danger from frost is past. Cover the seeds to a depth of four times their size and press the surface firmly with a board. Water with fine spray. Thin out so that the plants will not become crowded. For early flowering sow in hot-bed or shallow boxes in the house in March; transferring to the open ground in May and June.

Single—Mixed colors. Pkt. 5c.

Double—Mixed colors. Pkt. 10c.

Double and Single—Mixed. Pkt. 5c.

***POTENTILLA (Cinquefoil)**

Potentillas greatly resemble the Strawberry plant, especially in the manner of growth and the foliage. This is a trailing plant which covers the ground rapidly and sends out roots as it goes along. The flowers are very showy, the colors are very bright.

Willmottium Flowers—Salmon pink, very freely produced. Pkt. 25c

***PRIMULA (Primrose)**

Exceedingly fine, free flowering plants for both bedding and greenhouse use, producing clusters of brilliant colored flowers indoors from November to May; hardy varieties vintually in bloom.

Primula Malacoides (Baby Primrose)—This variety is extensively grown for winter blooming. The small lavender-pink flowers are borne in great profusion. Pkt. 15c; 2 pkts. for 25c

Primula Malacoides Mixed—Pkt. 15c, 2 for 25c.

Veris Polyanthus Mixed—An extra choice large flowered mixed strain. Pkt. 10c

Veris Acaulis Mixed—Pkt. 10c.

Vulgaris (English Primrose)—Canary yellow, fragrant. Pkt. 15c

Japonica Mixed—Several superimposed whorls of flowers on stems. 8-24 in. high. June. Per pkt. 15c

PYRETHRUM

Aureum (Golden Feather)—Dwarf plants with bright yellow foliage extensively used for edging; usually grown as an annual. Pkt. 5c; ¼ oz. 20c

Hybrid Double and Single Mixed—Large, daisy-like flowers ranging in colors from light pink to deep red; bloom in spring and fall; height 2 feet. Hardy perennial. Mixed. Pkt. 10c

Pyrethrum—White. Pkt. 10c.

Pyrethrum—Red. Pkt. 10c.

REGAL LILIES SEED

(See Page 48)

RHODANTHE (Everlasting)

A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting.

Maculata Alba—White. Pkt. 10c.

Maculata Rosea—Rose. Pkt. 10c.

Mixed—Pkt. 10c.

RICINUS

Castor Oil Bean (Ricinus)—This has large leaves and a tropical appearance. All it requires to flourish is heat. It is a quick growing annual, 6 to 15 feet tall. Leaves are green or reddish. Commercial castor beans are of a different variety.

Red Spire—The shapely, bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seedpods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. Per pkt. 10c

Sanguineus—Tricolor. Has blood-red stalks and green leaves with red veins. Pkt. 10c; oz. 25c

Zanzibarensis—Mixed. A very large leaved variety, deep green and bronze, growing 10 to 15 feet high. Pkt. 10c; oz. 25c

Mixture of all varieties, pkt. 10c; oz. 20c.

*ROMNEYA

Coulteri (California Tree Poppy)—5 ft. Flowers all summer. Beautiful snowy white fragrant flowers. Pkt. 15c

RUDBECKIA (Cone Flower)

Bicolor Superba—Fine free-flowering annual variety, growing about 2 feet high; forming a dense bush and producing in great abundance on long stems its bright flowers. The disc is brown, the florets golden-yellow, with large velvety-brown spots at the base; very effective and useful for cutting. Pkt. 10c

Bicolor Superba—Semi-double. Pkt. 10c.

Purpurea (Giant Purple Cone-Flower)—A most interesting hardy perennial, producing all summer large, showy reddish-purple flowers, about 4 inches across; 3 feet. Pkt. 15c

Those Marked * are Perennials

SALPIGLOSSIS (Painted Tongue)

These showy, half-hardy annuals bear beautiful funnel-shaped flowers having dark veins in a ground which varies from white to crimson, yellow, orange, etc., and intermediate shades. They are easily grown, require a light, rich, sandy loam and will respond to liberal treatment. Bloom from late summer until frost. 2 ft.

Crimson.	Brown and Gold.
Dark Red.	Crimson and Gold.
Yellow.	Purple and Gold.
Scarlet and Gold.	Rose and Gold.

White and Gold. Price, any of above, pkt. 5c. each
Extra Fine Mixed—Flowers of many beautiful shades, finely veined or penciled. A choice mixture of large flowering varieties. Pkt. 5c; oz. 80c

SALVIA

Salvia or Flowering Sage—A tender perennial blooming the first season from seed and growing two to three feet high. The blossoms are borne on long stems in racemes or spikes, and are fragrant. The plant forms a bunch and blooms profusely during the whole summer and fall.

America, or Globe of Fire—This is the freest and most continuous bloomer; also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. Per pkt. 25c

Salvia Splendens (Scarlet Sage)—One of the handsomest flowering plants we have for garden decorations. Excellent for filling large beds or borders in the garden; continuously in bloom from early August until the first killing frost. Beautiful scarlet; large flowering. Pkt. 5c; ¼ oz. 50c

Clara Bedman (Fireball)—The plants form handsome globular bushes about two feet in diameter. The spikes grow upright and stand clear above the foliage, completely enveloping the plant, and are of a most brilliant dazzling scarlet. Pkt. 10c

Zurich—A splendid dwarf variety, growing about 2 feet high, and is especially valuable on account of being the earliest to bloom, flowering ten days in advance of any other sort. Pkt. 5c; ¼ oz. 75c

SANVITALIA

Procumbens Fl. Pl.—6 in. Sanvitalia flowers are much like tiny Zinnias, being golden yellow with very dark purple centers, some of them single and others double. The plants grow only six inches tall, or rather they are prostrate and spread over the soil instead of growing upward. They start blooming in June and continue until frost. Pkt. 10c

*SAPONARIA

Ocymoides Splendens—6 in. A showy dwarf trailing plant, producing a sheet of vivid crimson flowers. June-August. Per pkt. 10c

Vaccaria Multiflora Rosea—Pkt. 10c.

*SAXIFRAGA (Megasea)

These will thrive in any kind of soil and in any position; grow about 1 ft. high and are admirable for the border of shrubbery, forming masses of handsome, broad deep green foliage with pretty rose-pink flowers which appear very early in the spring.

Decipiens Grandiflora—Masses of white flowers. 18 inches. Per pkt. 25c

Rhei Superba—Rose. 12 in. May-July. Pkt. 25c

SCABIOSA

(Mourning Bride, Sweet Scabious, Pin-cushion Flower, etc.)

These are firm favorites with many of our customers. Seed can be sown any time in the spring, after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without Scabiosas, especially where flowers are wanted for cutting.

Lavender.	Fiery Scarlet
Black Purple.	Flesh.
Cherry Red.	Rose.
Yellow.	Snowball.
Mixed.	

Price, any of above, Pkt. 5c each

*SCABIOSA (Perennial)

*Caucasica Alba.—White. Pkt. 10c.

Caucasica Perfecta—Light blue flowers, long stem; fine for cutting. 18 in. June-October. Seeds, per pkt. 15c

Caucasica New Hybrids—A collection of new shades in this well-known perennial family. Per pkt. 25c

*Columbaria—This is a novelty from South Africa. There is a decided place for this in your Perennial list. It is hardy, low growing, with a fine light green foliage. Some of the flowers measure two and a half inches across, with short compact petals, borne on long slender but strong stems. We offer this in two colors, lavender and pink. Per pkt. 25c

SCHIZANTHUS

Butterfly or Fringe Flower

Very popular charming annuals, very decorative for garden beds and indispensable for pot plants for the house, where, by successive sowings, a continuous display may be enjoyed almost all the year around. The plants are compact, 1 to 1½ feet high, and their florescence is such as to completely obscure the foliage, making them veritable pyramids of dainty, airy, butterfly-like flowers. The seeds germinate very quickly and the plants come into bloom a few weeks from sowing.

Hybridus Grandiflorus—1 ft. (The Poor Man's Orchid.) Neat pyramidal bushes covered with a multitude of small butterfly-like flowers of the most brilliant and striking color designs. Pkt. 10c

Wisetonensis—1½ ft. A charming annual with graceful fern-like foliage and a profusion of flowers varying from almost white with yellow eye to a brilliant rose with bronzy brown center. A really beautiful subject for the flower border from seed raised in February, and for winter decoration in greenhouse from seed raised in May and June. Pkt. 10c

Mixed—All colors. Pkt. 5c; ¼ oz. 15c.

*SIDALCEA

Erect-growing, more or less branching plants, producing their showy flowers during June-July. They will succeed in any garden soil in a sunny position.

Rose Gem—2-3 ft. July-August. Beautiful rose-pink flowers. Very distinct. Per pkt. 15c

*SILENE (Catchfly)

Useful plants for front row of herbaceous border, bearing quantities of bright flowers.

Schafta—4 in. July-October. Bright rose; one of the best Autumn border plants. Per pkt. 15c

SNAPDRAGON

(See Antirrhinum)

*SOLIDAGO (Golden Rod)

Virgo-aurea Alpestris—Yellow. 10 in. Spring. Per pkt. 15c

STACHYS

Lanata—1-1½ ft. Grown for the effect of its dwarf, white woolly foliage; the flower spikes should be removed. Per pkt. 10c

STATICE (Sea Lavender)

Our annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting, and have come to be indispensable in making winter bouquets.

Bonduellii—Producing numerous heads of bright yellow flowers. Pkt. 10c

Sinuata Blue—Pkt. 5c. Sinuata Lavender—Pkt. 5c.

Sinuata Rose—Pkt. 5c. Sinuata Mixed—Pkt. 5c.

Sinuata White—Pkt. 5c.

*STATICE (Sea Lavender)

Large spreading panicles of light graceful flowers, much prized for winter decoration when dried.

Caspia—The multitude of small flowers composed in spikes of a height of 2 to 3 feet, are of a tender lilac color. Per pkt. 15c

Latifolia—2 ft. Dense branching plumes of deep blue flowers. Per pkt. 10c

Perezii—Bright blue. Pkt. 25c

STEVIA

Serrata—2 ft. Free-blooming plants, bearing a multitude of fragrant pure white flowers; suitable for summer or winter blooming and cutting. Pkt. 10c

STOKESIA (Cornflower Aster)

Cyanea—This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Mixed, Pkt. 5c

STOCKS

Gilliflower—The Stock is one of the most popular annuals, either for bedding or pot culture; for brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed. Start the seed in February and March, and as soon as the plants have their second pair of leaves, prick out into shallow boxes and in about four weeks the plants will be ready to pot; from which they should be transferred to the open ground in May or June.

IMPROVED LARGE FLOWERING 10 WEEK STOCKS

Brilliant Blue.	Flesh.
Blood Red.	Rose.
Dark Blue.	White.
Mixed.	Yellow.

Price, any of above, pkt. 5c each

STOCKS

(Gilliflower)

Cut-and-Come-Again—Splendid perpetual-blooming class; sown in March or April they begin flowering in July, continuing till frost, and are especially valuable during September and October, when other flowers are scarce they throw out numerous side branches, all bearing very double, fragrant flowers.

Apple Blossom—White, tinted pink.

Brilliant—Blood red.

Creole—Yellow.

Deep Rose—Very fine.

Delicate Flesh.

La France—White, tinted carmine.

May Queen—Pale blue.

Princess Alice—White.

Rose.

Finest Mixed.

Price, any of the above, 10c pkt., 3 for 25c

STIM-U-PLANT

An All the Year Fertilizer

STOCKS

Mammoth Early Branching Nice

This variety is now recognized as the most valuable of all Stocks for cutting purposes and the most popular for general use.

If sown early, they come into flower as early as Dwarf Ten Week varieties; the flowers are larger, and the branching habit renders them invaluable for florists.

- Abundance—Pale crimson rose. Pkt. 10c.
 Almond Blossom—White tinted carmine. Pkt. 10c.
 Apple Blossom—White tinted pink. Pkt. 10c.
 Beauty of Nice—Delicate flesh. Pkt. 10c.
 Belle of Naples—Old rose. Pkt. 10c.
 Bright Violet—Fine rich violet. Pkt. 10c.
 Canary Yellow—(Monte Carlo.) Pkt. 10c.
 Crimson King—Brilliant crimson. Pkt. 10c.
 Crimson—(Souvenir de Monaco.) Pkt. 10c.
 Dark Blue—(Summer Night.) Pkt. 10c.
 Empress Augusta Victoria—Silvery lilac. Pkt. 10c.
 Golden Sheaf (New)—Chamois, shaded rose. Pkt. 10c.
 Heatham Beauty (New)—Rosy mauve, shaded terra-cotta. Pkt. 10c.
 All Colors Mixed. Pkt. 10c.

BUTZER'S

ANNUAL-FLOWER MIXTURE

A splendid mixture of the true annual flowers so blended as to give a succession of bloom from early spring to late fall. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed.

If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Annual Flower mixture. It contains a large number of different kinds of hardy varieties that will grow with the least of care, and, produce great quantities of flowers.

Pkt. 15c, 2 for 25c; oz. 50c, postpaid

FLOWER SEEDS BY WEIGHT

We carry large stocks of all Flower Seeds and shall be pleased to quote any of the varieties we are listing when larger amounts are desired.

GIANT SPENCER SWEET PEAS

The **Spencers** are of exceptionally large size, the standard and wings waved or frilled and the general effect remarkably graceful and attractive. The plants are of vigorous growth and remain in bloom for a longer time than the *Grandiflora* sorts. The **Spencers** are decidedly shy seeders, hence the price will doubtless always be higher than for the older types.

Culture. Early in spring make a trench three to four inches deep in rich, mellow soil, so arranged that no water can stand in it and plant the seed in the bottom, covering at first only one inch deep. Sweet Peas, particularly the white seeded sorts, are often a little difficult to start. If the soil is too dry they will remain a long time without germinating; if it is too wet and cold they will not sprout at all. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed on this, covering with more sand. Cover the row with a board to shed the rain and protect the soil from the hot sun but remove this as soon as the young plants appear.

When the plants are two inches high, cultivate and as they grow gradually fill up the trench. The blooms should be picked before they form pods or the plants will soon stop flowering.

BUTZER'S "ROSE CITY"

Sweet Pea Collection, 25 cents

This collection contains one package each of the following—all Giant **Spencers**

LAVENDER

Austin Frederick Improved—The color is a pleasing shade of bright lavender.

CREAM-PINK

Mary Pickford—A very large flower. The color is a dainty and appealing cream-pink with a soft suffusion of salmon. Blooms very profusely.

BICOLOR

Sparkler—A charming combination of a large rose standard with well-spread cream wings.

CRIMSON

Crimson King—In our opinion this is the finest Sweet Pea of a true crimson shade. A gold flower of excellent shape, carried on fine long stems.

ORANGE

Tangerine—Brilliant tangerine-orange flowers. An outstanding and very popular Sweet Pea.

WHITE

King White—Magnificent white; of perfect Spencer type the immense petals, gracefully frilled, are a pure white of wonderful substance.

25 cents for above Collection, Postpaid

BUTZER'S SUPERB SPENCER MIXTURE—All Waved or Spencer Varieties

This popular mixture is planted each year by thousands of our customers who like to have a showy row of Sweet Peas. This mixture contains the very best of the named Sweet Peas as well as some of the unnamed. We believe that it is the very best mixture that can be made, and we know that it will surely be a delight to you and also to your friends. All of the leading colors are represented.

Price per pkt. 5c; oz. 15c; 2-oz. 25c; 4-oz. 50c, Postpaid

A special garden size for peas, beans and sweet peas will insure you large, luscious peas and beans, and abundant sweet pea blossoms for gorgeous coloring. Price 25c

SWEET PEAS GIANT SPENCER

Too many varieties of Sweet Peas. It has always been a puzzling question to small growers, who, desiring to grow only a limited number of sorts, with as great an assortment as possible, are sometimes rather disappointed because some of the varieties are so nearly alike.

It will be realized that exhibitors and other keen growers are influenced by delicate shadings of color, by difference in form, by the way the blooms are placed on the stem, and so forth. We, therefore, keep a sufficiently wide range of varieties to suit these tastes, although, to the casual eye many of them are very much alike. We have made up our list of varieties, which, we believe, will answer all purposes.

PRICE: Per Pkt. 10c.

8 Pkts. your selection for 50c.

Per 1 oz. 25c. Postpaid.

Sweet Pea Collection—See Pages 55-59

WHITE

Giant White—A gigantic flower of exquisite form and pure color.

King White—Magnificent white; of perfect Spencer type; the immense petals, gracefully frilled, are a pure white of wonderful substance.

CREAM

Daffodil—A vigorous variety with exquisitely frilled and waved rich cream blooms.

BLUSH

Elegance—Delicate and beautiful in color, robust and free in growth and habit this charming Sweet Pea has become a general favorite with all growers.

Valentine—A variety of great merit. The plants make a strong, vigorous growth.

PICOTEE

Cherub—One of the most attractive of all picotee varieties. A deep rich cream, charmingly edged with bright rose. Very large and free flowering.

Dainty—A beautiful pink-edged variety with pure white ground. The flowers are large and well frilled.

LIGHT PINK

Alfrida Pearson—The color is a lovely pink, buds and flowers tinted with salmon-pink.

Daisybud—The color of the flowers is a harmonious combination of apple blossom tints with a suggestion of cream-pink

CREAM-PINK

Bridesmaid—This is a magnificent cream-pink variety of immense size and rich coloring.

Caress—Immense. The color is a beautiful shade of soft and rich shell-pink, deeply toned and suffused with cream-buff.

Margaret Atlee—Rich, glowing rose-pink on a cream ground, with a subtle suffusion of salmon and amber overlying the entire flower.

Mary Pickford—A very large flower. The color is a dainty and appealing cream-pink with a soft suffusion of salmon. Blooms very profusely.

DEEP PINK

Hercules—A flower of great substance and exquisite size, and beautifully waved. The color is a magnificent soft rose-pink self.

Hawmark Pink—The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon.

Hawmark Salmon-Pink—This is a leader in its class. The color is a rich deep pink, attractively tinted with salmon and orange.

ROSE

George Herbert—The flowers are a most magnificent rich rosy carmine. The blooms are large and well-waved.

Rosabelle—Deep rose self with a white blotch at the base of the standard and wings. The flowers are large and substantial.

SALMON

Barbara—A superb salmon-colored self that makes a telling bunch, either for exhibition or table decoration. Requires shading against strong sun.

Stirling Stent—The color is rich glowing deep salmon self, suffused with orange.

LIGHT CERISE

Hope—Undoubtedly the finest light cerise self.

Illuminator—Glowing cerise-salmon with an indication of bright orange. Under artificial light, the flowers appear to be a glowing orange-scarlet.

DEEP CERISE

Fiery Cross—The standard is a scorching fire-red or rich orange-scarlet.

Royal Scott—Of all brilliant shades there are none that surpass "Royal Scott." It does not fade or burn in the hottest sunshine.

ORANGE

Helen Lewis—Orange-rose wings and intense rich crimson-orange standard. An old favorite.

Robert Sydenham—A magnificent glowing orange.

Tangerine—This is the last word in orange-colored Sweet Peas.

ORANGE-SCARLET

Thomas Stevenson—The flowers, of largest size and finest Spencer type, are of an intense flaming orange.

The President—A brilliant orange-scarlet flower, always of largest size.

Gloriosa—This is an outstanding English variety with large, well-formed flowers of a bright and glowing orange-scarlet self.

CRIMSON

King Edward—Bright crimson scarlet, largest size. **Charity**—The blooms are a rich brilliant crimson which does not burn in the sun.

Crimson King—In our opinion this is the finest Sweet Pea of a true crimson shade. A bold flower of excellent shape, carried on fine long stems.

BICOLOR

Blanche Ferry Spencer—The standard is rich rose-pink; the wings are white, sometimes flushed with pink.

Mrs. Cuthbertson—The standard is rose-pink and the wings are white flushed light rose.

Sparkler—A great flower for cutting and exhibition; of largest size. The color is a charming combination of rose and cream, the standard being bright rose; wings a lovely shade of rosy cream.

SCARLET

Mrs. C. P. Tomlin—This is now a leader in the scarlet class. Remarkable for its richness and substance.

Vermilion Brilliant—This is "the most brilliant, iridescent scarlet Spencer yet produced."

LAVENDER

Austin Frederick Improved—The color is a pleasing shade of bright lavender.

Asta Ohn—The flowers are of large size, pronouncedly fluted in the standard.

Florence Nightingale—Immense, bold, erect flowers of soft rich lavender.

Hawmark Lavender—There is nothing so pure in lavender as this.

Orchid—This is a rich tone found only in the Cattleya Orchids. Of extra large size; one of the best lavender self.

R. F. Felton—This has made many friends on account of its wonderful color and magnificent size.

BLUE

Jack Cornwell—Giant midnight blue. A wonderful new shade. Flowers are beautifully waved.

Mrs. Tom Jones—This is a real true blue.

PURPLE

Royal Purple—The color is a rich warm purple, the younger flowers having a slightly softer color tone.

MAROON

Hawmark Maroon—A large, well-waved maroon color with a polished mahogany.

Warrior—The color is rich reddish maroon, flushed with bronze. Lovers of dark shades will appreciate this fine color.

GIANT SPENCER SWEET PEAS

STRIPED

America—The ground color is ivory-white, distinctly striped with brilliant crimson-red. It is a charming variety which blooms very freely and carries its striking blooms in threes or fours on fine long stems. It makes an exquisite bunch.

Senator—The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope.

ART SHADES

Brocade—This fine art shade is a combination of salmon, rosy lavender and rose-pink with a satiny finish.

Irish Belle—A lovely rich lilac flushed with pink.

Price: Any of the above 10c per pkt;
8 pkts 50c; oz. 25c; postpaid.

EARLY FLOWERING SWEET PEAS

EARLY FLOWERING SPENCER SWEET PEAS

Six weeks earlier than the Spencers, these new early-flowering varieties begin to bloom 106 days from planting in the open ground and flower through a long season—about four months.

BICOLOR

Yarrowa—Bright rose-pink on clear cream. Large, well waved, and free blooming.

Pkt. 15c; ½-oz. 25c; oz. 45c

Columbia—The standard is a rich rose-pink; wings a fine delicate creamy rose.

Pkt. 15c; ½-oz. 25c; oz. 50c

MAROON

Congo—Chocolate Maroon. Pkt. 15c; oz. 50c.

CRIMSON-SCARLET

Aviator—Brilliant crimson scarlet flowers of large size and fine form.

Pkt. 15c; oz. 50c

WHITE

Snowstorm Improved—This is by far the finest of all white winter flowering varieties. The flowers are extra large and of fine form.

Pkt. 15c; ½-oz. 30c; oz. 50c

*SWEET WILLIAMS

Dianthus Barbatus—A well-known attractive, free-flowering, hardy perennial, producing a splendid effect in beds and borders, with rich and varied flowers. The demand for separate colors has induced us to offer this season several of the best and most distinct flowers.

Dark Crimson. Pkt. 5c.

Pink Beauty. Pkt. 5c.

Scarlet Beauty. Pkt. 5c.

Double White. Pkt. 5c.

Double Mixed. Pkt. 5c.

Single Mixed. Pkt. 5c.

THUNBERGIA

Black Eyed Susan—Beautiful rapid-growing climbers, fine for vases, rustic work or greenhouse culture. Half-hardy annuals; five feet. Fine mixed. Per pkt. 5c.

*TUNICA

Saxifraga—A pretty tufted plant with light pink flowers, produced all summer. Useful either for the rocky or the border.

Per pkt. 15c

*VERBASCUM

Hybridum, Miss Willmott—Hardy biennial. The large flowers are produced in stately spikes, rising to a height of 5 to 6 feet and continue from July to frost. A lovely white variety.

Seeds, per pkt. 15c

VERBENAS

Verbenas are free flowering hardy annuals of low spreading growth. Single plants in rich soil will cover a space three or four feet in diameter and furnish a profusion of flowers. If the flowers are kept cut, the plants will bloom much more freely. Plants grown from seed are not only cheaper than those grown from cuttings, but are more vigorous.

Mammoth Strain—This is without doubt the finest strain in existence. White, scarlet, pink, purple, blue or finest mixed.

Pkt. 10c

LAVENDER

Asta Ohn—The flowers are of large size. The color is a charming soft lavender, suffused with mauve.

Pkt. 15c; oz. 50c

Heather Bell—Beautiful shade of rich mauve; stems long. A splendid acquisition to the early Spencers.

Pkt. 15c; oz. 50c

CREAM

Canary Bird—This is a splendid rich deep cream or primrose-colored self. The flowers are of great size, beautifully waved, and long-stemmed.

Pkt. 15c; ½-oz. 35c; oz. 50c

Spring Maid—Light cream pink. Pkt. 15c; oz. 50c.

DEEP PINK

Zvolanek's Rose—One of the best in the deep pink class. The flowers are large, Pkt. 15c; ½-oz. 35c; oz. 50c

Miss Louise Gude—Brilliant pink. Pkt. 15c; oz. 50c

ORANGE-SCARLET

Glitters—Glitters and scintillates, with a fire-like sheen radiating over the flowers. The standard is a bright fiery orange, and the wings are deep orange.

Pkt. 15c; ½-oz. 30c; oz. 50c

EARLY FLOWERING SPENCERS MIXED

A choice mixture of the foregoing named Early Flowering Spencer varieties, and others.

Pkt. 10c; oz. 50c; ¼-lb. \$1.75

*VERONICA (Speedwell)

Among the prettiest of herbaceous plants, bearing in most cases blue flowers, which are much needed.

Prostrata Mixed—Blue and white. Trailer. June-July.

Per pkt. 25c

VIOLET (Viola Odorata)

No garden is complete without a nice bed of violets. They bloom ahead of other flowers, and their fragrance is delightful. They will thrive in shady places and therefore can be planted where other plants will not do well. A violet bed around the foot of a big shade tree is very attractive. Provide good rich soil and after you once get a bed established you can get any number of plants by dividing the roots. Hardy perennial.

Pkt. 10c

VIOLA CORNUTA

"Tufted Pansies"—The flowers are not so large as regular pansies but bloom so freely that for bedding effect they are unsurpassed. The colors are distinct and they also bloom for a long time.

Blue Perfection—Deep bright blue. Pkt. 15c.

Purple—Pkt. 15c; Mixed—Pkt. 10c.

Yellow—Pkt. 10c.

VIOLA CORNUTA

Jersey Gem—Forms a large, compact plant, producing a continuous profusion of bloom for a very long period. The flowers are a very pleasing shade of deep violet-blue, with an occasional very slight variation in tint, and may be relied upon to come about 70% true from seed. A great feature of this fine variety is its wonderful power of resisting drought, the plants continuing to throw up flowers long after other varieties are withered up.

Pkt. 25c

WALL FLOWER

Very highly prized, old-fashioned plants grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

SINGLE FINEST MIXED

Single Finest Mixed—Pkt. 5c.
Single Yellow—Pkt. 5c.
Single Blood Red—Pkt. 5c.
Ruby Gem—Purple; very fine. Pkt. 10c.
Surprise—Orange-pink turning into salmon-rose. Pkt. 10c.
Tom Thumb—Blood red. Pkt. 10c.
Tom Thumb—Golden Yellow. Pkt. 10c.
Tom Thumb—Sulphur Yellow. Pkt. 10c.

DOUBLE TALL BRANCHING WALLFLOWER

Double Tall Branching. Finest Mixed—Fragrant, 3 feet. Per pkt. 10c

WILD CUCUMBER

The quickest growing climber on our list, attaining a length of 30 feet in one season. It is thickly dotted with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. It will quickly cover an old tree or an unsightly building. Pkt. 5c; oz. 20c

"WILD" FLOWER GARDEN

To those who cannot bestow the necessary care required in a neatly laid out flower garden the "Wild" Flower Garden presents a substitute which for its usual varied effect, for cheapness and small amount of labor necessary for its construction, has no rival. "Wild Flower Garden Seeds" are a mixture of over 100 varieties of hardy flower seeds. Per pkt. 5c; oz. 20c

XERANTHEMUM, MIXED

Plants 2 feet high, producing small double flowers, which are easily dried for winter bouquets. Grows readily from seed sown early in the Spring. The flowers are very graceful. Free-flowering. Pkt. 10c.

DAHLIA FLOWERED ZINNIAS

This wonderful flower creates a sensation wherever it is grown and it has probably gained popularity more quickly than any other improved garden flower offered in recent years. The large size, fullness of petals, extraordinary color range, and good keeping qualities have all contributed to its popularity. The flowers resemble in appearance the Dacorative Dahlia and is called the Dahlia Flowered Zinnia for this reason. When in full bloom they often measure five to six inches in diameter.

Exquisite—By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color light rose with center a deep rose. (Tyrian Rose.) Per pkt., 15c.

Old Rose—This is adequately described by its name, as it is of the real Old Rose Shade; it is large, and for charm and beauty we consider it ranks next to Exquisite. Per pkt., 15c.

Illumination—Similar to Exquisite, but a striking self color of deep rose. (Tyrian Rose.) Per pkt., 15c.

Golden State—A very rich orange yellow (Cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. Per pkt., 15c.

Crimson Monarch—By far the largest and best of the red shades. Flowers often 8 inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. Per pkt., 15c.

Giant Attraction—A distinct shade of brick red (Spectrum Red), which carries its color well from the bud, and forms into an immense ball of color when in full bloom. Per pkt., 15c.

Scarlet Flame—A large, beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. Per pkt., 15c.

Meteor—A rich, glowing deep red (Spinel Red), and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. Per pkt. 15c.

Lemon Beauty—This is next to Crimson Monarch in size and form. It may be described as a golden yellow on brown. Decidedly a pastel shade, and should be in every collection. (New.) Pkt. 15c.

Oriole—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. Our cultures are limited, and we can offer Oriole in small quantities only this year. Per pkt., 15c.

Dream—A fine deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. Per pkt., 15c.

Purple Prince—A fine, deep purple (Rhodante Purple) large and well-formed. (New.) Pkt. 15c.

Polar Bear—A very large pure white, the best white yet seen in Zinnias. True Dahlia form. Per pkt., 15c.

Buttercup—An immense deep creamy yellow. A very desirable flower, which should be included in every collection. Per pkt., 15c.

Canary Bird—A delicate shade of primrose—very large and holds its color well until out of bloom. Per pkt., 15c.

Butzer's Special Mixture—A well blended mixture, containing all the above novelties. Per pkt., 15c; 2 for 25c.

One package each of the above Dahlia-Flowered Zinnias, \$1.50, postpaid.

ZINNIAS—CALIFORNIA GIANTS

The **Giant Mammoth Zinnia** has smaller centers and more loosely placed petals than the old Giant type. It produces flowers of colossal size, specimens measuring 5 to 6 inches across being not unusual. Plants are of extremely robust habit attaining a height of 3 feet and blooming from early summer to late autumn.

Cerise Queen, beautiful cerise rose.

Lemon Queen, bright primrose or canary yellow.

Miss Wilmet, soft pink.

Orange King, rich golden orange overlaid scarlet

California Giants Mixed, a well balanced mixture of the above colors and a number of others

Price, any of the above, 10 cents per package; 3 packages for 25 cents.

Collection of a package of each of the above 8 colors, 50 cents; ¼ oz. 35 cents; 1 oz. \$1.00.

DOUBLE LILLIPUT OR POMPON ZINNIAS

These make a very pretty border as they are of a dwarf habit and compact growers bearing in profusion small, densely double flowers on long stems well above the foliage.

Canary Yellow
Scarlet

Dark Crimson
White

Golden Orange
Mixed

Salmon Rose

Price 10 cents per pkt.; 3 pkts. for 25 cents; 6 colors 40 cents; ¼ oz. 35 cents.

DWARF DOUBLE ZINNIAS—Large Flowering**THE BEST BEDDING VARIETY**

This we consider the best Zinnia for bedding, forming bushy compact plants not over 2 feet high, bearing large perfect flowers.

Bright Scarlet, very rich.

Canary, clear yellow.

Fire Ball, red.

Salmon Rose, a pleasing shade.

Snowball, pure white.

Mixed, all colors.

Price, any of the above, 10 cents per pkt.; 5 sorts 35 cents; ¼ oz. 25 cents.

PICOTEE ZINNIAS

This mixture includes a wide range of colors. Nearly all the flowers are tipped with rich mahogany-brown at the end of each petal. The darker flowers are picoteed with a contrasting light shade.

Pkt. 10c; ¼ oz. 35c; 1 oz. \$1.00.

Golden Pheasant—A variety of the above, having flowers of a deep orange with maroon tips. **Pkt. 10c.**

QUILLED ZINNIAS

The petals are twisted and curled, giving the flowers a very attractive appearance; blooms very freely. The colors range from white through many shades of yellow, rose-pink, and salmon to deepest crimson.

Pkt. 10c; ¼ oz. 35c; 1 oz. \$1.00.

“ROSE CITY” MIXTURE ZINNIAS

This is a mixture of all the varieties that we list and will give you a wonderful display of flowers.

Pkt. 10c; ¼ oz. 35c; 1 oz. \$1.00.

BUTZER'S ZINNIAS COLLECTION, 35 cents

1 pkt. Dahlia Flowered Mixed Zinnias 1 pkt. California Giants Mixed Zinnias

1 pkt. Picotte Mixed Zinnias 1 pkt. Double Dwarf Mixed Zinnias

1 pkt. Double Lilliput Mixed Zinnias

One package each of the above 35 cents.

***BUTZER'S PERENNIAL FLOWER GARDEN**

We have made up a mixture of the most showy and easily grown perennials. As a great many of our customers do not care for the names of the different varieties but want a lot of flowers the whole season, with this in mind we have made up this mixture. Under ordinary gardening methods, the planter may expect quite a surprise at the great display of beautiful flowers. Try a package on our say-so. Large Package, 15c, 2 for 25c; oz. 50c, postpaid

BUTZER'S ANNUAL-FLOWER MIXTURE

A splendid mixture of the true annual flowers so blended as to give a succession of bloom from early spring to late fall. All colors may be found in this mixture. For best results the seed should be sown in a prepared seed bed.

If you have a piece of ground you cannot irrigate, or have not time to give particular attention, yet you want to have something beautiful instead of unsightly weeds, we advise you to plant our Annual Flower mixture. It contains a large number of different kinds of hardy varieties that will grow with the least of care, and, produce great quantities of flowers.

Pkt. 15c, 2 for 25c; oz. 50c, postpaid.

One package of Perennial and one package Annual Flower Garden, 25c.

Sweet Pea Collection, 25 cents

BUTZER'S "ROSE CITY"

This collection contains one package each of the following—all Giant Spencers

LAVENDER

Austin Frederick Improved—The color is a pleasing shade of bright lavender.

CREAM-PINK

Mary Pickford—A very large flower. The color is a dainty and appealing cream-pink with a soft suffusion of salmon. Blooms very profusely.

BICOLOR

Sparkler—A charming combination of a large rose standard with well-spread cream wings.

CRIMSON

Crimson King—In our opinion this is the finest Sweet Pea of a true crimson shade. A gold flower of excellent shape, carried on fine long stems.

ORANGE

Tangerine—Brilliant tangerine-orange flowers. An outstanding and very popular Sweet Pea.

WHITE

King White—Magnificent white; of perfect Spencer type the immense petals, gracefully frilled, are a pure white of wonderful substance.

25 cents for above Collection, Postpaid

Garden Collection No. 1

See
Page 1

GLADIOLUS

Albania (Kemp)—Unquestionably one of the finest whites in cultivation. Each 5c; doz. 50c

Allen V. Bunce (Bill)—Bright orange yellow. Each 15c; doz. \$1.50

Alton (Kunderd)—A wonderful ruffled variety of finest orange color. A magnificent flower. Each 5c; doz. 50c

American Beauty (Diener)—American Beauty rose with creamy throat. A wonderful bouquet of blooms all open at once. Each 6c; doz. 60c

Anna Eberius (Diener)—This variety has created a sensation everywhere with growers and amateurs alike. Dark velvety purple, throat deeper shade, flowers of large size. Each 5c; doz. 50c

A. W. Hunt (Christy)—Best orange red, very large bloom. New and a sensation wherever seen. Each 5c; doz. 50c

Bengal Tiger (Pratt)—A fine red with dark markings, originated by Dr. Pratt of Portland. A truly home product. Each 5c; doz. 50c

Bread O' Day (Bill)—Soft dainty pink, very early. Each 10c; doz. \$1.00

Byron L. Smith (Kunderd)—One of the very best; most refined lavender-pink on white ground; extra fine as a cut flower. Color equal to a very choice Cattleya orchid. Each 5c; doz. 50c

Carmen Sylva (Prestgard)—Almost pure white, medium tall, ideal cut flower. Very popular, with lily-shaped blossom. Each 7c; doz. 70c

Catherine Coleman (Coleman)—Geranium pink, extra tall. A medal winner, best in its color. Each 20c; doz. \$2.00

Copper Bronze (Kunderd)—Prim, a very striking copper bronze color. Each 15c; doz. \$1.50

Crimson Glow (Betscher)—Rich crimson; large open flower and good spike. Each 5c; doz. 50c

Diener's White (Diener)—White, large plant and flower, many blooms open at a time. Each 6c; doz. 60c

Dr. F. E. Bennett (Diener)—Deep peach red overlaid with flame scarlet, most fiery red imaginable. Flowers are of very large size with many open at a time. Each 15c; doz. \$1.50

Elf (Diener)—Lemon yellow when in bud, flowers are snow white in full bloom. Lemon yellow lip. Each 5c; doz. 50c

Elizabeth Tabor (Hinkle)—The earliest of all Glads, beautiful shade of pink with carmine blotch. A beauty. Each 5c; doz. 50c

Evelyn Kirtland (Austin)—A wonderfully graceful flower of bright coral pink; a great favorite. Each 5c; doz. 50c

Fern Kyle (Kunderd)—Fine large pale cream, heavily ruffled. Originally sold for \$25.00 per bulb. Each 10c; doz. \$1.00

Flaming Sword (European)—Beautiful flame red, early, many open. Each 20c; doz. \$2.00

Geraldine Farrar (Diener)—Pale lavender violet, a great favorite with every one. Each 25c; doz. \$2.50

Giant Myrtle (Kunderd)—Soft pink on white. A wonderful blend of colors. Grand. Each 10c; doz. \$1.00

Giant Nymph (Coleman)—A giant flower on tall spike. Light rose pink with creamy yellow throat, fine. Each 6c; doz. 60c

Gold (Decorah)—Clear light yellow with many large flowers open at a time. Each 6c; doz. 60c

Gold Eagle (Austin)—Deep rich yellow, very early and a good forcing variety. Each 20c; doz. \$2.00

Golden Dream (Gross)—One of the best, deep clear yellow, very tall, with five or six flowers open at a time. Each 35c; doz. \$3.50

Golden Measure (Kelway)—Pure golden yellow, one of the finest of this color. Each 6c; doz. 60c

H. C. Goehl (Fischer)—Clear white, maroon blotch, striking. Each 10c; doz. \$1.00

Iwa (Betscher)—Pink with dark throat, one of the best blotched varieties, Vigor without coarseness. Each 20c; doz. \$2.00

Jack London (Diener)—Beautiful pure salmon, fine cut flower, many open at a time. Each 5c; doz. 50c

Jacoba Von Beijeren (Holland)—Violet self color, splendid and tall. A wonder. Each 8c; doz. 80c

Jenny Lind (Dr. Hoeg)—Soft apricot with yellow throat. The most beautiful coloring of any variety. Each 10c; doz. \$1.00

Jewel (Charles Zeestraten)—Prim, pink with yellow throat, tall and lovely. Each 5c; doz. 50c

Joe Coleman (Kunderd)—Very large and vigorous, rich red. Each 5c; doz. 50c

Joerg's White (Joerg)—One of the largest whites known, a good exhibition variety. Each 50c; doz. \$5.00

John T. Pirie (Kunderd)—Mahogany brown, darker throat, many open at a time. A good one. Each 10c; doz. \$1.00

Longfellow (Decorah)—Excellent pink, perfect spike, a dainty fine thing. Each 15c; doz. \$1.50

Los Angeles (Houdyshel)—Shrimp pink, the cut and come again Glad. Each 10c; doz. \$1.00

Marie Kunderd (Kunderd)—Just about the best ruffled pure white to date. Tall spike and large pure white flowers with many open at a time. Each 8c; doz. 80c

Mariette (Metzner)—Geranium pink, darker throat, good. Each 8c; doz. 80c

Mary Pickford (Kunderd)—A wonderful flower and spike of delicate creamy white flowers, with sulphur yellow blotch in throat. Each 5c; doz. 50c

Mrs. Dr. Norton (Kunderd)—Finest cream and pink, a sensation among the newer Glads. Each 6c; doz. 60c

Mrs. Frederick C. Peters (Fischer)—Extra fine tall rose lilac with blossoms that are blotched with crimson bordered with white on lower petals. Large and grand. Each 8c; doz. 80c

Mrs. Leon Douglas (Diener)—Begonia rose, striped with scarlet, magnificent spikes of mammoth flowers. Each 10c; doz. \$1.00

Mrs. P. W. Sisson (Coleman)—Clear cameo pink, a prize winner, beautiful. Each 35c; doz. \$3.50

Mr. W. H. Phipps (Diener)—La France pink overlaid with light rose salmon. Enormous flowers almost all open at once. Given highest rating over all other varieties by American Gladiolus Society in 1925. Each 30c; doz. \$3.00

Orange Queen (European)—A very beautiful brilliant orange Prim, one of the best Prims. Each 6c; doz. 60c

Pfitzer's Triumph (Pfitzer)—Very large salmon orange. Attracts attention wherever shown. Each 50c; doz. \$5.00

Pink Cloud (Kunderd)—Soft rose pink shading to deeper pink in throat, large and ruffled, many open. Each 15c; doz. \$1.50

Pink Wonder (Kemp)—Very large blooms of a pleasing shade of light pink. Each 6c; doz. 60c

Purple Glory (Kunderd)—Gigantic blooms of deep maroon red, well spaced on tall spikes. A wonderful exhibition variety. Each 10c; doz. \$1.00

Red Glory (Piper)—Very large velvety red, a sport of Purple Glory and a good one. Each 60c; doz. \$6.00

Richard Diener (Diener)—Unquestionably the most beautiful pink to be found in any flower. Blossoms large and flaring and most beautifully arranged on spike. Each 10c; doz. \$1.00

Rose Ash (Diener)—Soft light rose with gray blue and having soft cream blotches on two lower petals, stalks four to five feet tall. Each 5c; doz. 50c

Sans Pareil (Vilmorin)—A French variety of great merit, deep apricot pink, with white throat, well placed on tall spike, a grand variety. Each 20c; doz. \$2.00

Scarlane (Kunderd)—Ruffled, a brilliant and most striking flower of rich orange red. Each 5c; doz. 50c

Shell Pink (Kunderd)—Prim, shell to rose pink, white throat, tall. Each 6c; doz. 60c

Sunnymede (Fischer)—Light orange, with red throat markings. The best in this color. Each 10c; doz. \$1.00

Sweet Lavender (Coleman)—Very early lavender, darker throat, fine. Each 6c; doz. 60c

White Butterfly (Kunderd)—A fine pure white. Prim. A dainty and beautiful flower. Each 6c; doz. 60c

Wm. Kent (Diener)—Cream pink with golden oehre center, large flower and plant, blooms heavily ruffled. Each 25c; doz. \$2.50

GLADIOLUS

This class of Summer-flowering bulbs is doubly valuable for the brave field show of bloom, and for its generous supply of cut flowers. Gladiolus flowers last longer when cut than most any other flowers, and develop in water to a greater perfection than if left on the plant. Any rich, light garden soil will grow Gladioli if properly worked in preparation and exposed to the benefit of full sunlight. Set bulbs 2 to 4 inches deep and 2 inches apart in the drills, single rows 12 inches and double rows 18 inches apart. Beds do well planted 4 to 6 inches apart, each way.

BUTZER'S "ROSE CITY"

Mixture of
Large Flowered **Gladiolus**

All Extra Selected Large Bulbs
No Second Size

We have assembled an assortment of distinct choice named varieties into a carefully distributed mixture. This collection is entirely our own, in which we take a reasonable pride.

By MAIL, 50c per doz., \$3.50 per 100.

By EXPRESS, \$3.00 per 100, \$25.00 per 1000.

250 at the 1000 rate.

BUTZER'S Dollar Assortment
of Gladiolus

60 ASSORTED BULBS FOR \$1

These are Medium or Flowering size bulbs of the finest named varieties only. Each assortment put up separately by hand containing from 1 to 5 bulbs each of 20 different varieties, 60 bulbs in all, but not labeled. Not a cheap mixture, but a collection of the best, priced so that you can afford to plant them liberally, and still have something really choice. All will bloom splendidly for anyone, and will make extra large bulbs for next year. We guarantee them to please you. If not, return them next fall and your money will be cheerfully refunded. We send cultural directions with each order.

BUTZER'S DOLLAR COLLECTION

of 12 Choice Iris for \$1.00,

Postpaid

We sent out several hundred of this grand Germanica collection of Iris last year, and, have had no complaints. This collection is not tagged, but, it is made up with the varieties of which we have a surplus, as it is almost impossible for us to gauge the number of Iris that we will sell. For those who are not particular to have the names, this collection will give the best of satisfaction.

TRY THIS IRIS

Pallida Dalmatica foliis variegatis—This beautiful variety is conspicuous on account of its striking variegated foliage, which is of a glaucous green with broad bands of creamy-yellow, every leaf being well marked; it is of free growth, attains a height of 2 feet and is very attractive, even when not in flower, its blooms are of a clear lavender blue the same as its parent. 50c each.

IRIS

Dutch and Spanish—The graceful, slender stems; with loose but beautiful flowers, the charming colors producing a combination not surpassed by an orchid. The finest effects are produced when planted in clumps in the perennial borders.

Dutch and Spanish Iris Mixed—A fine mixture suitable for bedding and for cutting.

Per dozen, 50c, postpaid

IRIS TINGITANA

The earliest and largest. Blue, falls lilac shading to cream, yellow stripe, very beautiful. Should be planted late and protected by a mulch or otherwise in severe climate.

Mother bulbs, each 40c, 3 for \$1.10.

No. 1 bulbs, each 25c, per dozen \$2.50.

BUTZER'S DAHLIAS—Selected Varieties

ORDER EARLY

No plant in the floral kingdom has made such marked improvements in size, form and coloring in the past few years as has the Dahlia. Words are inadequate to describe them. There is a touch of grandeur and magnificence about them that baffles description. The blossoms are wonderful in form and size, and embrace a glorious range of coloring, with almost an endless number of combinations impossible to describe. It has a blooming season of about four months, commencing in mid-summer and lasting until frost, and for landscape and garden decoration it stands supreme.

Our offerings of Dahlias are only those varieties which we have found to be entirely satisfactory to planters in general. There are hundreds of worthless varieties with which the amateur is not familiar, and would consequently have more difficulty in choosing properly if they were included among the listings. You may have no hesitancy in selecting any variety from this list.

For those who do not know the different varieties of dahlias or feel that they do not know which ones to select, we have prepared several fine collections which are offered on another page at greatly reduced prices, in order to get you acquainted with this beautiful flower.

Dahlia bulbs are ready for shipment about April 15th. You may include them in your order for seeds and they will be sent when ready.

In this locality we recommend planting about May 1st and bulbs will be shipped the latter part of April. Upon arrival bulbs should be planted at once if ground has been prepared for them, if not they should be left in box covered with packing material as received and packing should be moistened so as to keep them from drying out. Keep them well covered and away from sunlight and air, as it is very harmful to the bulbs to leave them laying around, exposed, before planting them.

DAHLIA CULTURE—Dahlias will grow to perfection in any good garden soil and should be planted where they will get plenty of sun although they will do very well if planted in a location that is partially shaded.

Holes should be dug about three feet apart each way and the bulbs planted 5 to 6 inches deep, laying them flat in the bottom of the hole. Under no circumstances should they be stood on end. Cover bulb with not more than 2 inches of finely pulverized soil at first, and as plant makes growth hole should be gradually filled in.

Plants should be watered freely when necessary and ground should be kept well cultivated until plants begin to bloom, when deep tillage should cease and the surface only should be lightly stirred from then on. Stakes should be driven into the ground and plants kept well tied to them so as to keep them from being broken down by wind and heavy rains.

DAHLIAS—THE DIFFERENT FORMS

Cactus (C. signifies Cactus)—These are characterized by the long, narrow, pointed petals, twisting and incurving; others straight and needle-like.

Hybrid Cactus (H. C. signifies Hybrid Cactus)—They are between the cactus and the decorative. They have broader and more massive petals than the cactus, but not as broad as the decorative.

Decorative (D. signifies Decorative)—These have large double flowers, full to the center, with broad, flat, somewhat loosely arranged petals, with broad points or rounded tips.

Peony (P. signifies Peony)—These are so named from their resemblance to semi-double peonies.

Discount of 20% on all orders of \$5.00 and over, except on collections these are net as listed

Allice Whittier (H. C.)—One of the finest and largest of the newer prize-winners of a beautiful clear sulphur yellow. Massive blooms of good substance and perfect form carried on long stiff stems. One of the best light yellows. Each \$2.00.

Ambassador (C.)—Awarded first prize at Seattle Dahlia Show, 1927, for the best and most artistic variety exhibited. In color a soft yellow at the center, with salmon, amber, and pink shadings, gradually deepening at the tips. The blending of these colors captivates all. Flowers of largest size on perfect stems. Each 75c.

Amun Ra, or The Sun God (D.)—Here is a gorgeous beauty of copper and orange tones shading to gold and amber, deepening in the center to a dark reddish brown, the effect as a whole being that of a gorgeous sunset. The immense flowers are held well above the strong vigorous plants on three-foot stems. Each 50c.

Ballet Girl (C.)—An extra large deep flower; a mass of narrow incurved petals of pure orange, white with orange base and other variations of these colors on the same bush. Free flowering. Very attractive. Each 50c.

Black Jack (D.)—One of the deepest maroon colored dahlias grown. Color is so dark it can almost be described as black. Flowers are immense and are carried well above the tall growing plants on long, strong stems. The best in its color and a distinct addition to any garden. Each \$1.00.

Bob Pluse (H. C.)—A large wine-maroon, each petal attractively tipped with pure white. Fine stems and blooms very freely. Very showy in the garden. Each 50c.

Border King (C.)—Large, incurved flower, of rich, deep glowing scarlet. A beautiful exhibition variety and its long, stout, upright stems and freedom of bloom, makes this an ideal dahlia for any purpose. Each 50c.

Carmencita (D.)—A fancy variety of large size, of unusual graceful formation of a bright yellow, striped with red. The plant is a compact grower, and a mass of bloom throughout the season; these are borne on good stems and last well when cut. Each 50c.

Champagne (D.)—Aside of being one of the largest dahlias this wonderful variety has not only size to commend it but it is a model for shape, habit of growth, stem, freedom of flowering, and above all, its remarkable and distinct color; very aptly described by its introducer as golden champagne with chamois shadings, which color combination no doubt suggested its appropriate name. Each 75c.

Charles Stratton (D.)—A grand exhibition flower that has been awarded many prizes for its large size and artistic coloring, and one of the most talked of Eastern varieties. In color a pale gold, shaded and tipped with old rose. A tall grower and prolific bloomer on good stems. One of the best new varieties. Each \$1.

Cigarette (H. C.)—This distinct and novel dahlia attracts more attention in our fields than any other variegated variety. In color it is creamy white, heavily edged with pomegranate red, but it varies greatly, no two flowers being exactly alike. The petals are long and inclined to roll, forming a large, deep, well-shaped flower of great substance on very long stems of best quality. Each 75c.

City of Portland (P.)—One of the grandest new peony dahlias, 8 and 9 inches in diameter and of very artistic form. Color is a clear rich deep yellow. Ea. 50c.

Daddy Butler (H. C.)—A wonderful cut flower and exhibition variety of large size of an unusual blending of colors, an American Beauty Rose shade, with the reverse of the twisted and rolled petals of a lighter tint forming a pretty color variation. Each 50c.

DAHLIAS—Continued

Earl Williams (D.)—An exceptionally attractive fancy or variegated variety, the flowers are of largest size, of splendid formation of a brilliant crimson-scarlet color, each petal tipped with white; an early and free bloomer that continues in good shape to the end of the season. Each 75c.

Eldorado (D.)—Size, stem and color of this variety are of the best. Picture a comparatively low growing bush with immense golden-yellow blooms which stand up and look you in the face, and you have Eldorado. A strong feature of this beauty is the depth of the flower which corresponds with the size, a splendid dahlia in every way. Each 75c.

Elite Glory (D.)—One of the greatest Dahlias ever originated and a most spectacular exhibition variety that creates a sensation wherever exhibited. The color is a radiant bright red and its effect of brilliance cannot be surpassed. The flowers are of very heavy texture and are wonderful keepers considering their giant size. Was a constant prize winner at most of the shows the past season. Each \$2.00.

Elinor Vanderveer (D.)—An incomparable dahlia of exquisite beauty and great size. The large blossoms of glowing, satiny rose-pink are of great depth and substance and are held far above a strong sturdy plant on exceptionally long, stiff stems. There is no surplus leafage and with ordinary disabbling every flower is perfect. Extra fine. Each \$1.00.

Elsie Daniels (H. C.)—A beautiful flower of a pale violet orchid shade on the outer petals, with a center of purest white, making a magnificent combination of colors. Stems are long and stiff and hold the very large flowers well above the foliage. Each \$1.00.

Emma Groot (D.)—Of giant size and entirely distinct in color in this type, a most delicate soft shade of mauve. The flowers of very regular form are composed of broad flat petals of very large size; stems perfect; a fine exhibition flower. Each 50c.

Emma Marie (H. C.)—A favorite because of its pleasing shade of clear pink with a creamy white center and its combination of exhibition and commercial qualities not found in many Dahlias. A robust grower, producing deep, full centered, blooms, averaging 8 inches in diameter on fine long stems. Each 50c.

Fantastique (P.)—Very distinct form, with irregularly curled and twisted petals, of a deep cerise crimson, tipped and bordered with white. Long wiry stems. Each 50c.

F. W. Fellows (C.)—One of the largest of all cactus dahlias, quite often over 8 inches across. Pure orange-scarlet with very narrow and almost straight petals. Never fails to attract attention. Extra fine. Each 50c.

Golden West (C.)—Large bold flowers on strong stems; color, deep rich yellow heavily overlaid with orange. A fine cut flower. Each 50c.

Golden Emblem (D.)—A clear, golden yellow, without shading or traces of any other color. The huge flowers, 9 to 10 inches across, are of the most artistic and refined form imaginable with their high centers and long, wavy, recurring petals. Blooms held erect on long wiry stems, far above foliage. The best clear yellow by far. Each \$1.50.

Gorgeous (P.)—A wonderful Peony from California that has to be seen to be appreciated. A rich golden yellow, shading to bright scarlet. A striking flower of tremendous size borne on three-foot stems. Fine keeper. Each 50c.

Insulinde (D.)—One of the most popular varieties both as a cut flower as well as for garden decoration. The blooms under ordinary cultivation are from 7 to 8 inches in diameter with just sufficient broad, long curled and twisted petals to form a perfect and graceful flower. These are held horizontally on the stem like a *Chrysanthemum*. Color a beautiful golden ochre, with salmon-red suffusion which deepens towards the center. Each 50c.

Ismal Patrol (H. C.)—A gorgeously rich colored flower. A dark velvety crimson-scarlet tipped and flushed with pure gold. It is very large and the stems are splendid. Comes very early and holds its perfect shape to the end of the season. A wonderful keeper as a cut flower. One of the most brilliantly colored varieties in our garden. Each 75c.

Jane Cowl (D.)—This massive decorative was the sensation of the New York Show of the American Dahlia Society, 1927. It is a large deep flower with as fine a coloring as anything in the Dahlia world. A glistening bronzy buff and old gold blending to a deeper shade toward center of flower, reverse of petals a pale flesh color, giving the flower as a whole, a warm glow. A stem of unusual strength holds the giant blooms erect over a plant of ideal growth. This variety received many prizes during the past season at the different shows. Was awarded two blue ribbons at the 1928 show of the Portland Dahlia Society. One for largest flower and one for the best flower in the show. Each \$5.00.

Jeane Chazot (H. C.)—A beautiful golden bronze with just a faint suffusion of nasturtium-red that intensifies its brilliancy and adds to its charm. A strong grower and flower is a good keeper on fine stem. Each 50c.

Jersey's Beacon (D.)—A new eastern variety that is a wonder from the originator of the famous Jersey's Beauty. As an exhibition flower it has few equals and as a garden flower it is even more spectacular. The blooms are simply immense held far above the foliage on long, strong, stems. In color it is a Chinese-scarlet, with a paler reverse, giving it a two-toned effect. This variety was seen at all the Dahlia Shows the past season where it won many ribbons. Each \$1.00.

Jersey's Beauty (D.)—Not only the finest, true pink, decorative variety yet introduced, but we are tempted to say the best all-round dahlia for any purpose yet introduced. It has been one of the outstanding features of the shows for the past four seasons, where it has been awarded many medals, certificates and prizes. The beautiful, large, pink flowers are of perfect form, supported on long, stiff, straight stems. It is early and free-flowering, continuing perfect to the end of the season. As a cut flower it is one of the best keepers and is equally valuable for garden decoration. Each 50c.

Jersey's Ideal (D.)—The color of this beautiful variety is best described as lavender pink, although sometimes it is nearer lavender. Flowers face upward on top of the stem, the long petals drooping over the stem, make a flower of great depth. A vigorous grower, free bloomer, and an ideal stem. Each \$2.00.

Jersey's Jewel (D.)—A beautiful mallow-pink. Very large, long petaled flowers, on fine stems. A splendid exhibition variety. Flowers can be had 9 inches across with only ordinary care. Exquisite. Each 75c.

Jersey's Radiant (H. C.)—Another Jersey that is a beauty. Large flowers of bitter-sweet orange, produced on long stiff stems well above the foliage, and about the best thing in its color. A very attractive variety that has won many prizes the past year. Each 75c.

Jersey's Sovereign (D.)—A beautiful flower of a shade that is hard to describe. Salmon-orange is the nearest that we can come to it. A very vigorous grower with dark foliage which is very resistant to the ravages of insects. Each 50c.

Judge Marean (D.)—A large flower of glowing salmon-pink, iridescent-orange, yellow, and pure gold all blended together most beautifully, held erect on fine stems. Each 50c.

King Albert (D.)—A novelty from Holland, having broad twisted petals, forming a very large flower of a beautiful, rich royal purple, on long stems. Very distinct and greatly admired in our gardens. Extra fine. Each 50c.

Kittie Dunlap (D.)—It is not only a beauty, but has every characteristic which endears it to a dahlia grower. Blooms freely all season, has excellent keeping qualities; long, firm stems, immense size, and great substance. If this dahlia did not have all these admirable qualities, the coloring would make it popular, as it is of the delightful shade of the American Beauty Rose. Each 50c.

Margaret Masson (D.)—A splendid variety of recent introduction that has made good. The flowers are very large, stems perfect, and the color a beautiful silvery rose-pink. Has excellent keeping qualities. Each 75c.

DAHLIAS—Continued

Margaret Woodrow Wilson (D.)—An exhibition type of large size and great beauty. Color is opalescent pink. Face of petals is creamy white, reverse phlox-pink, the reflection from reverse of petals giving the whole flower an opalescent effect. Each \$1.50.

Mariposa (H. C.)—Long, narrow, incurved petals. A delightful shade of true pink, intensified by a deeper center. One of the gigantic California introductions which has depth as well as diameter of flower. An absolutely stiff stem, which rises nearly three feet above the foliage, a center which is regular and perfect. Each 50c.

Marmion (D.)—This flower is of such enormous size and great depth and looks so massive among the surrounding dahlias as to dwarf them all. It is a pure golden yellow with a bronze suffusion carried well above the foliage on long strong stems. A wonderful flower that has won more prizes the past season than any other variety in this country. A 12-inch Marmion won first prize for largest flower in the show at the Portland Dahlia Show of 1927. Each \$1.50.

Mrs. Carl Selbach (D.)—Immense lavender pink blooms, on exceptionally long strong stems. Each 50c.

Mrs. Edna Spencer (C.)—Splendid narrow petalled English Cactus type, flowers large, of a delicate lavender-pink with white suffusion. Each 50c.

Mrs. Eleanor Martin (D.)—Very large flowers, can be grown to 10 inches in diameter on stiff, 2-feet-long stems. The form is of best exhibition type and the coloring is unique, different from all others, a beautiful mulberry with golden suffusion. Each \$1.00.

Mrs. Ethel F. T. Smith (H. C.)—An immense creamy white shading to lemon. The plant is tall and vigorous and is a generous producer of extra large blossoms. Stems are long and straight. A beauty. Each 50c.

Mrs. I. de Ver Warner (D.)—A wonderful dahlia that has justly gained a great reputation. In color it is of that refined, pleasing mauve-pink that is usually referred to as an orchid coloring. The flowers are large, of perfect form, on long, stiff stems, and are so placed as to show their full profile. Each 50c.

Mrs. Warnaar (H. C.)—A wonderful Holland variety held erect on good stems. A beautiful creamy white, tinted pale pink. A beauty. Each 50c.

Mrs. W. E. Estes (H. C.)—Huge fluffy blooms of purest white held aloft on long stiff stems in greatest profusion. Does not burn in the sun. Each 50c.

My Maryland (H. C.)—A graceful Hybrid-Cactus of rich bright pink, with each petal tipped with ivory both at the center and on the outside of the flower. The large flowers are carried on good stems well above a robust growing plant with leather like foliage. Awarded many prizes at the Eastern shows during the past season. Each \$5.00.

Patrick O'Mara (D.)—Large flowers on long stems of an unusually soft and pleasing shade of orange-buff, slightly tinged with rose. One of the most lasting cut-flower dahlias. Each 50c.

Pearl Ruggles (P.)—Carmine rose shading to light pink at outer edge of petals. A wonderfully beautiful flower, carried well above foliage on strong stems. Each 50c.

Pioneer (D.)—A large beautiful bloom of a very odd shade of color, being a dark mahogany red. These richly colored flowers are produced in profusion on long, strong stems. Each 50c.

Polar Star (D.)—A pure white dahlia of remarkable beauty. Flower is large and full and carried on 18-inch stem. Each 50c.

President Wilson (D.)—A large and attractive variety on a good stem, that is a great favorite with everyone. In color it is a rich crimson with each petal distinctly tipped white. A very beautiful flower, fine for exhibition. Each \$1.00.

Pride of California (D.)—A large red decorative that cannot be beaten. Very large flowers held on extra good stems, and an exceptionally good keeper. Each 50c.

Pride of San Francisco (D.)—Large blooms of a brilliant golden salmon pink held erect on stout stiff stems. Plants are of compact growth and flowers are extra fine keepers. Should be in every garden. Each 75c.

Queen of the Garden Beautiful (D.)—An immense lemon yellow blossom, from 9 to 12 inches across and 4 to 5 inches deep. The stems are unusually strong and it is a good keeper. Was a consistent winner at the shows last fall. Won the Heller prize of \$250.00 for the most meritorious dahlia in the show of The Dahlia Society of California in 1925. Each 75c.

Radie (D.)—This immense dahlia is surely a wonder, bearing blooms 12 inches in diameter, without disbudging. Color is brilliant red, bordered yellow, with a yellow reverse. A most striking combination of colors that attracts a great deal of attention. Each 75c.

Regent (C.)—A very large clear mauve-pink, with beautifully incurved petals. Free bloomer on fine stems. One of the best Cactus Dahlias. Each 50c.

Rheinischer Frohsinn (C.)—Large incurved flowers on erect stems; petals white at base, heavily tipped carmine-cerise. Each 50c.

Robert Treat (D.)—This beautiful new Eastern introduction has been one of the great prize winners the past two seasons all over the country. The immense bloom is a clear American Beauty rose color, of great substance, and is held erect on fine stems. One of the very best. Each 75c.

Rookwood (D.)—A remarkably distinct dahlia, unusually free-flowering, coming into bloom early and producing 100 per cent perfect flowers to the end of the season. The form is absolutely perfect, composed of peculiarly curled or twisted petals, in color a pleasing shade of cerise-rose which does not vary during the entire season. Each 75c.

Rory O'Moore (D.)—A beautiful bloom of deep maroon, with each petal tipped white. Flower is large and grows on a perfectly stiff stem and blooms freely all season. Flowers are regular, always showing the two colors. Never throws blooms of one solid color. Was greatly admired by all visitors in our garden. Each 75c.

Rosa Bonheur (H. C.)—A large beautiful flower of most dainty form and clear color, shading from an ivory white center to a beautiful shell pink at outer edges. The outer petals are prettily twisted and curled giving a most graceful appearance to the beautiful blooms. Stems are fine and plants are very prolific. Each 75c.

Shudow's Lavender (D.)—The very large flowers are of a silvery lavender slightly shading to white. The stem is long and stiff and holds the large flower erect. It blooms continuously and freely from early to late in the season and never shows a center and has excellent keeping qualities as a cut flower. Each 75c.

Susan G. Tevis (D.)—This beautiful variety should fill a long felt want, for a lilac-blue flower. This has a distinctive new color tone, best described as a deep shade of lilac with a bluish shade. The blossoms are regularly formed of narrow, flat, pointed petals. It is a very large graceful bloom of fine depth. Each 75c.

The Grizzly (D.)—Deep rich crimson-maroon, of immense size, and a prolific bloomer. Of very attractive formation and creates a sensation wherever shown. Each 50c.

The Telegram (P.)—A new Eastern variety that attracted a great deal of attention in our garden the past season. The blooms are of a beautiful golden yellow at center with the outer third of each petal tipped with pure white. Blooms are large on medium stems and free flowering. Each \$1.00.

Trentonian (D.)—A giant decorative of outstanding merit of a distinct and appealing color. A wonderful shading of old gold, amber, and coppery bronze, with a center of reddish bronze, forming a flower of marvelous brilliancy. Blooms are placed horizontally on top of exceptionally fine long cane-like stems that carry the immense flowers perfectly. A flower of fine keeping quality and a splendid exhibition variety. A ribbon winner at all the recent shows. Each \$1.00.

Uncle Tom (D.)—If you want the nearest to black of any dahlia that grows, you should have this one. An aptly named flower with an unusually rich and impressive color, being a dark velvety garnet heavily overcast with black, and as rich as the finest velvet in texture. Long, very stiff, stems, with excellent foliage. A very meritorious all purpose variety. Each \$1.50.

U. S. A. (H. C.)—A large flower of an exquisite deep orange color, that is very unusual in a dahlia. Free bloomer on good stems. Each 50c.

Wizard of Oz (D.)—A remarkable dahlia of beautiful coloring that is a veritable giant for size. In color it is a rare shade of amber pink with salmon suffusion. The plants are good growers and the beautiful blooms are carried erect on the best of stems. Each 75c.

POMPON DAHLIAS

Pompoms are the midgets of the dahlia family, producing very small compact flowers, like miniature snow-balls, averaging about 1½ inches in diameter. They are invaluable for cut flowers owing to their fine stems and long keeping qualities, and their abundance of blooms. All are dwarf growers averaging about 2½ feet in height and are especially suitable to plant as a border in front of the taller growing, large flowering varieties.

ALL POMPONS 30c each

Amber Queen—Rich clear amber, shaded apricot.
 Baby—White edged lavender.
 Beebe—Combination of pink and mauve on white ground.
 Belle of Springfield—Very small, perfect blooms of bright brick red.
 Censor—Deep crimson with lighter shadings. Very neat.
 Clara Harsh—Perfect blooms of yellow, tipped with crimson.
 Eliganta—Beautiful bright rose pink. Very free.
 Darkness—Very perfect flowers of deep velvety maroon; almost black.
 Dark Eye—White ground, with lavender tips and center.
 Dusky Babe—Small rich crimson.
 Eureka—Rich bronze, shading to yellow.
 Fairy Queen—Beautiful sulphur yellow, edged pink.
 Fashion—Clear bright orange.
 Harry Snooks—Rosy pink, with pale center.
 Joe Fette—Beautiful snow white.

Kuffer—Deep salmon pink, with tan.
 Lassie—Yellow base, tipped with rose.
 Little Belle—Clear mauve pink; very compact.
 Little Beeswing—Small yellow, tipped deep cherry.
 Little Irene—A clear canary yellow.
 Little Jenny—Beautiful, compact quilled flower, of primrose yellow.
 Little Lloyd—Deep burnt orange, shading to amber.
 Madeline—Pale yellow, edged purple.
 Mrs. J. J. Kynn—Very small, deep, bright orange.
 Nemesis—Rich, deep crimson, tipped white.
 Phillis—Yellow at base, tipped red.
 Phoebe—Beautiful coppery orange.
 Prince Charming—Cream, heavily tipped purple.
 Vivid—Rich, brilliant scarlet of very perfect form.
 Verida Flora—The green dahlia. The most unique novelty of dahlia culture. The flower is a rich verdant green, same shade as the foliage.
 Winnifred—White, tipped lavender. Very dainty.
 White Aster—Pure white with notched petals. Very free.

BUTZER'S "BIG VALUE" DAHLIA COLLECTIONS

This year we are offering several fine dahlia collections at greatly reduced prices and feel sure that all who buy them will be well pleased. The varieties offered are a selection of the very best from our entire list and represent a big saving than when bought separately. Every bulb is guaranteed to grow and be true to name and will be correctly labeled except collection No. 5, which are untaged.

12 PRIZE-WINNING DAHLIAS

WORTH \$9.00 SENT POSTPAID FOR \$5.00

COLLECTION 1—This set contains 12 of the most beautiful dahlias grown regardless of price. All are good strong growers, producing flowers of the very largest size, of wonderful coloring, on great long stems, making them especially fine for cutting as well as garden decoration.

Jersey's Beacon (D.)—Spectacular Chinese scarlet	\$1.00
Jersey's Beauty (D.)—Grand clear pink	.50
Susan G. Tevis (D.)—Immense lilac blue	.75
Robert Treat (D.)—Gorgeous American Beauty rose color	.75
Mrs. I. De Ver Warner (D.)—Magnificent deep mauve pink	.50
Charles Stratton (D.)—Huge pale gold shaded with rose	1.00
Insulinda (D.)—Beautiful golden orange	.50
Elsie Daniels (H. C.)—Immense pale violet orchid shade	1.00
Pride of California (D.)—Brilliant fiery red	.50
Mrs. Ellinor Martin (D.)—Beautiful mulberry with golden suffusion	1.00
The Telegram (D.)—Magnificent yellow tipped white	1.00
Pioneer (D.)—Immense deep maroon	.50

\$9.00

10 BLUE RIBBON WINNERS

WORTH \$16.50 SENT POSTPAID FOR \$10

COLLECTION 2—In this collection we offer you 9 of the finest dahlias grown, every one of which has a long record as a prize winner. They were the pick of our garden last fall, winning the admiration of every one who saw them. If you want something extra fine try this collection. We guarantee that you will be well pleased.

Jane Cowl (D.)—Immense bronzy buff and old gold	\$5.00
Elite Glory (D.)—Enormous bright red	2.00
Marmion (D.)—Gigantic golden yellow	1.50
Ellinor Vanderveer (D.)—Exquisite rose pink	1.00
Jersey's Radiant (H. C.)—Beautiful deep orange	.75
Rookwood (D.)—Beautiful bright cerise-rose	.75
Black Jack (D.)—Immense deep velvety maroon	1.00
Margaret Woodrow Wilson (D.)—Beautiful opalescent pink	1.50
Jersey's Ideal (D.)—Immense lavender pink	2.00
Trentonian (D.)—Wonderful coppery bronze	1.00

\$16.50

8 HOME BEAUTIFUL DAHLIAS

WORTH \$6.25 SENT POSTPAID FOR \$3.50

COLLECTION 3—In this collection we offer you 8 varieties at a low price that are especially suited to yard and garden decoration. All are good strong growers, very free bloomers, producing a great quantity of flowers during the season.

Uncle Tom (D.)—Beautiful dark velvety garnet	\$1.50
Pride of San Francisco (D.)—Brilliant golden salmon pink	.75
Jersey's Jewel (D.)—Exquisite mallow pink	.75
Kitty Dunlap (D.)—Immense American Beauty rose color	.50
Jean Chazot (H. C.)—Hugh golden bronze	.50
Polar Star (D.)—Lovely snow white	.50
Elsie Daniels (H. C.)—Immense pale violet orchid shade	1.00
Rory O'Moore (D.)—Giant purple-maroon tipped white	.75

\$6.25

12 BEAUTIFUL POMPON DAHLIAS

WORTH \$3.60, SENT POSTPAID FOR \$2.50

COLLECTION 4—We grow over 50 varieties of pompoms but do not have space to list them all, therefore are offering our surplus bulbs in this collection. These bulbs will be labeled with their correct names, and no two alike, chosen with regard to color, however they must be entirely our own selection.

OUR BIG VALUE COLLECTION

10 CHOICE DAHLIAS, WORTH \$5.00 OR MORE, SENT POSTPAID FOR \$1.50

COLLECTION 5—Since it is impossible for us to gauge the amount of sales upon any variety in advance, we often have a surplus of dahlias in very good sorts. In this collection we offer a selection of bulbs which are untaged, but are chosen with regard to color, and no two alike, and for those who are not particular to have the names, they will give fine satisfaction. These bulbs are all of large flowering, double varieties, and no other selection than our own can be permitted. Price per box of 10 good strong bulbs, in 10 varieties, \$1.50, postpaid.

BUTZER'S HARDY LILIES

Lilies are New Delights for Every Garden

General Culture of Hardy Lilies

No garden is complete without Lilies and suitable varieties may be found for almost any situation. The fullest measure of decorative effect is secured when Lilies are used in combination with other plants and shrubs. Striking effects are produced by planting them among tall-growing perennials, in front of large shrubs, or among dwarf shrubbery, so that the blossoms may rise above its foliage.

Most Lilies will succeed in any light sandy or loamy soil, preferring an acid or a neutral soil. Plenty of leafmold or decayed peat should be added to the soil. An excellent mixture is one-third loam, one-third leafmold or peat or both, and one-third sand and good garden soil.

Good drainage is an essential point. The preparation of the soil should be such as to provide ample moisture during the growing period, but without having an excess of water during the dormant period. When planting the bulbs it is well to surround them with sand or fine gravel. This helps to drain away surplus moisture and tends to repel worms.

Occasionally some Lilies do not appear above the ground the first year after planting, but come up strong and vigorous the second season.

In cutting Lilies the lower part of the stem should be left, so that the bulb may complete its growth. To cut it to the ground injures and may destroy the bulb. Lilies should be protected from the frost by a light mulch of a covering of leaves, or granulated peat moss that is now so popular for this work.

Plant a few varieties and enjoy their beauty.

Auratum (Gold Banded Japan Lily)—This variety has ever been a great favorite. The flower heads are large, with broad petals gracefully recurved. White, thickly studded crimson-maroon, with a wide gold band down the center of each petal. Improves with age, and produces a vast amount of bloom.

Large bulbs, each 25c; doz., \$2.75, postpaid

Auratum Platyphyllum—This is without a question one of the most wonderful lilies in cultivation. The leaves are very long and broad and the stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, but much larger. The golden band is not so pronounced and the dots are white; the petals more overlapping and of greater substance. The giant of the Lily family.

Each 30c; doz., \$3.00, postpaid

Batemanniae—A beautiful Lily growing 3 feet high, with six to eight apricot colored flowers on a stem. Blooms early.

Each 25c; \$2.50, postpaid

Candidum (St. Joseph-Madonna Lily)—This is the ever-popular, fragrant, snow-white, hardy garden lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular trumpet-shaped lily.

Each 30c; doz., \$3.00

Elegans—The number of forms and varieties is legion, varying in color from pale lemon-yellow to rich orange-brown, embracing various tints of orange to almost red and from soft apricot to approaching crimson. They also vary in flowering season. Stem-roots; plant 8 to 9 inches deep in sunny situation. June-July flowering.

Each 25c, doz., \$2.50

Hansonii—A very important and beautiful Lily that is easy to grow. It is perfectly hardy and very desirable for border planting, improving from year to year. One clump will often grow to enormous size, producing dozens of flower spikes, all crowned with clusters of finely reflexed blossoms 2 inches across. The color is a warm orange, faintly spotted brown. Each cluster will contain as many as twelve individual blossoms. It will grow from 3 to 5 feet tall and prefers a little shade. A very early bloomer (about June 25).

Each 25c; doz., \$2.50

Longiflorum (Giganteum)—of grand size and substance; especially fine for open ground. Plant in early December for Easter blooming. Mammoth bulbs, each 35c; doz., \$3.50. Large bulbs, each 30c; doz., \$3.00

All Lilies like peat

Regale (Myriophyllum)—The most vigorous and satisfactory Lily that has ever come under our observation. Perfectly hardy, of medium height, often bearing five to eight large handsome blooms. The color is white, the outer petals shaded in varying amount with pink, the throat suffused primrose-yellow, and fragrant.

Each 30c; doz., \$3.00, postpaid
Special small but blooming size bulbs at 10c each, \$1.00 per doz.

REGALE LILY SEED

See Page 47

LILIUM SPECIOSUM

These lilies are probably the most popular of all, succeeding equally well in open border or in pots. When fully open, the petals curve gracefully on the flower stem, exposing the beautiful rose and crimson markings, which characterize the Rubrum types.

Speciosum Rubrum—White with dark rose spots. The most popular of the speciosum varieties. Hardy, vigorous, and free bloomer.

Large bulbs, each 25c; doz., \$2.75

LILIUM TENUIFOLIUM

The lovely Coral Lily of Siberia. A great beauty. The brightest of all lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautifully shaded coral-red flowers. One ought to grow them by the dozen, they are so fine for cutting and making clumps for the lawn. Blooms very early.

Each 25c; doz. \$2.50, prepaid

Tigrinum Splendens (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer.

Large bulbs, each 20c; doz., \$2.00

Tigrinum Flore Plena (Double Tiger Lily)—This magnificent lily is of stately habit, bearing immense clusters of very large, double flowers, nodding on tall, strong stems; color bright orange-red spotted with black.

Each 25c; doz., \$2.50

Washingtonianum (Mt. Hood Lily)—A beautiful Lily, native of Oregon; flower large of open form, white, tinted with lilac, grows 3 to 5 feet high; very fragrant.

25c each

CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Plant one bulb in a 6-inch pot. As soon as it starts growing bring it to the light and heat and the result will be most satisfactory.

White Calla Lily (Aethiopica)—A well-known plant of easy culture for window bloom, and makes a handsome house or window plant. To aid profuse blooming keep dormant from the middle of June until the last of September; pot on receipt in good, rich soil, using 6 to 8-inch pot, give light and heat in abundance. Both foliage and flowers are attractive in this desirable winter bloomer.

Each 35c; 3 for 100, postpaid

Yellow Calla (Elliotiana)—New and beautiful variety; same habit of growth as ordinary white Calla; flowers same size and shape, rich, clear, lustrous golden-yellow; foliage dark green, with translucent creamy spots, strong bulbs.

Each 35c; 3 for \$1.00, postpaid

New Godfrey—Plant is more dwarf in growth; flowers lily white, very graceful and produced in astonishing numbers; come into flower quicker; will also do well in the garden for summer flowers.

Each 25c; 3 for 65c, postpaid

LILY OF THE VALLEY

Extra Select Pips—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 are ready December to March.

Selected Pips—For forcing indoors or planting outdoors.
Doz., 50c; 100, \$3.00

OREGON-GROWN ROSE BUSHES—"The World's Best"

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID
50c EACH, \$5.00 PER DOZEN—YOUR SELECTION

Augustus Hartmann—Brilliant red flushed with orange. Very large well formed flowers with high pointed center.

Cheerful (H. T.)—Large, full flowers of perfect shape and form, with enormous individual petals and grand general character. Color, rich orange flame overspreading the petals to a distinct orange yellow base.

Columbia (H. T.)—This beautiful rose is of strong, vigorous habit of growth and exceptionally free-blooming. The flowers, which are of good size, are perfect in form, both in bud as well as when fully expanded. In color it is a most pleasing shade of rose-pink and delightfully fragrant.

Constance (H. T.)—Rich orange yellow, distinctly streaked and splashed with crimson, long pointed buds; free bloomer.

Countess Clanwilliam (H. T.)—A distinct and charming rose, producing flowers in great abundance. Color delicate peach pink, petals flamed and edged with deep cherry red. Long pointed buds opening to large full flowers. Of strong, vigorous habit.

Crimson Emblem (H. T.)—A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Buds and flowers of superb form, of fine size and produced on fine long stems, admirably adapted for cutting. Wonderful mildew-proof foliage.

Dorothy Page Roberts (H. T.)—Coppery pink, suffused with apricot yellow, very free and perpetual, a delightful garden rose.

Duchess of Wellington (H. T.)—Intense saffron yellow stained with rich crimson which as the flower develops, becomes deep coppery saffron yellow. Delightfully fragrant.

Frau Karl Druschki (H. P.)—The white American Beauty. Makes splendid buds and immense flowers; perfectly double.

General MacArthur (H. T.)—Dazzling crimson scarlet; delicious perfume and magnificent foliage. Blooms in great profusion.

Golden Emblem—A grand new Irish rose of ideal habit of growth, with holly-like, glossy green foliage, each stem bearing a glorious golden yellow flower of the finest form. The peer of all yellow roses.

Golden Ophelia—Rich golden-yellow flowers in greatest freedom on stout, wiry stems, clothed with glossy, dark green foliage. Especially well adapted for cutting and personal adornment.

Gorgeous (H. T.)—Strong, vigorous growing, with handsome, olive-green foliage. Flowers very large, finely formed, produced freely on stout canes. Color deep orange-yellow, heavily veined and reddish copper.

Grus an Tepitz or Virginia R. Cox (H. T.)—Color fiery crimson, with a dark velvety sheen; very fragrant; free blooming.

Hadley—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet shaded maroon. A glorious rose.

Hoosier Beauty (H. T.)—A grand new hybrid tea rose of American origin. Flowers dark crimson, shaded with maroon and veined with black; petals of remarkable substance—like so much crimson velvet; buds beautifully formed, with fine, pointed shape, opening into large, double flower.

Hugh Dickson (H. P.)—This superb Irish rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth and free flowering habits; one of our most favorite varieties.

Imperial Potentate (H. T.)—Rich, rosy carmine, fine buds, splendid cut flower, sweetly scented.

Irish Elegance—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming.

Irish Fireflame (H. T.)—Long pointed buds of the utmost elegance in their deep madder-orange color, splashed with crimson and expanding to large single flowers of a satiny old gold which vary as they develop.

J. B. Clarke (H. T.)—Irish variety of great merit either for garden decoration or cut flowers. The color is bright crimson shaded maroon; petals large, flowers very full and perfectly formed. Flowering from early summer until late autumn.

Jonkheer J. L. Mock (H. T.)—It is of the type of La France, with large, round blooms surmounting its stout, almost thornless canes; color, rich bright pink, reverse of petals carmine.

Kaiserin Aug. Victoria (H. T.)—Elegant, large pointed buds; large, full, double flowers; color delicate creamy-white; fragrant.

Killarney Brilliant (H. T.)—Color an exquisite shade of deep shell pink lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are exceptionally long and beautifully formed.

Killarney Double White (H. T.)—A distinct rose similar to the famous Killarney in size, shape and fragrance, but snow white.

Kitchener of Kartoum (H. T.)—Dazzling scarlet; single flowers in great masses; a wonderful new decorative rose; should not be pruned but allowed to grow naturally. Something different.

Lady Ashtown (H. T.)—Pale Rose du Barri, shaded to yellow at base of petals. Reverse side of petals silvery pink; large, long pointed buds, opening into a beautifully formed flower; a rare and most beautiful variety.

Lady Hillingdon (T.)—Deep apricot yellow, long and pointed bud. Flowers are of good substance and very lasting; foliage luxuriant; a fine forcing or garden rose, excellent for cutting.

La Champagne (H. T.)—Large buds and medium-sized, semi-double (25 petals), blooms peach-colored with yellow base. Vigorous plant. The buds are especially lovely, and the stiff stems hold the flowers erect, even after heavy rains.

La France (H. T.)—A silvery rose, changing to pink. A general favorite. Sweetest of all roses.

Laurent Carle (H. T.)—Gigantic oval buds and blooms of deep, glowing carmine-crimson, perfectly formed and pungently fragrant. Plant of average growth, with foliage requiring the usual attention. It blooms freely throughout the season.

Los Angeles (H. T.)—Flame pink toned with coral and shaded gold at base of petals. Beautifully formed, fragrant, vigorous and very free blooming. Nothing better.

Louise Catherine Breslau (H. T.)—Coral red, shaded chrome yellow, opening to a shrimp pink, shaded coppery orange.

Marie Van Houtte (T.)—Lemon yellow of good size; darker in center edged rose; well formed.

Mme. Abel Chatenay (H. T.)—A rose of extraordinary merit. A free bloomer, with flowers of good size and substance. Color beautiful rosy carmine, with darker shadings. One of our finest decorative and garden roses and always in great demand.

Mme. Butterfly (H. T.)—A sport from the popular new rose Ophelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base.

Mme. Caroline Testout (H. T.)—A grand rose of the La France type, but with flowers larger and finer. Color, bright satiny pink; very fragrant and free in bloom. One of the handsomest roses and should be planted extensively.

Mme. Edouard Herriot (Per.)—The famous winner of the Daily Mail Prize. The color being terra cotta bronze and geranium red, a new combination of colors in a rose.

Mme. Melanie Supert (H. T.)—Splendid new orange yellow shaded pink; beautiful, long pointed buds. Best of its color.

Mrs. Alfred Tate (H. T.)—Coppery red shaded fawn. Buds are about the longest we have ever seen on an outdoor rose. Will easily rank with the very best.

Mrs. A. R. Waddell (H. T.)—A strong, rampant, growing Hybrid Tea Rose, with foliage that is ornamental in itself. Large, long pointed buds of a bright rosy scarlet, opening into a finely formed flower of a rich apricot or salmon color.

Mrs. Charles Russell (H. T.)—"American Beauty" can compete with it when it comes to counting points. Stems three feet long, stiff and surmounted by grand rosy-pink blooms.

Mrs. Dunlop Best—Pointed, saffron-yellow buds, with dull apricot shadings, opening to rich, reddish apricot flowers of great sweetness and beauty. Very vigorous, low, spreading growth and is healthy and free flowering.

50 each, \$5.00 per dozen, your selection, postpaid

OREGON-GROWN ROSE BUSHES—"The World's Best"

ALL TWO-YEAR-FIELD GROWN, BUDDED AND POSTPAID
50c EACH, \$5.00 PER DOZEN—YOUR SELECTION

Mrs. S. K. Rindge (Pern.)—A sister variety of *Lolita Armour*. Buds very long and pointed, rich golden yellow outside of petals stained at base with Indian red.

Old Gold (H. T.)—Medium sized flowers of a vivid reddish orange color with coppery red and coppery apricot shadings. A splendid garden rose.

Ophelia (H. T.)—Orange salmon buds, opening to flowers of dainty pink. The foliage is clean, dark and leathery—growth vigorous and free, producing long canes. Blooms early and continuously.

Padre (Pern.)—Coppery scarlet, flushed yellow at base, flowers semi-double with 15 to 20 petals, often curiously notched, exceptionally free bloomer. Color commands attention.

Premier (H. P.)—A clear pleasing red; does not fade. Good form and habit, excellent for cutting and inside forcing; fragrant, thornless, free blooming.

The Queen Alexandra (H. T.)—A brilliant flower of intense vermilion deeply shaded old gold on reverse of petals, which spring from a pure orange base, one of the most remarkable color combinations seen in *Roses*. The flowers are quite full and when half blown are bewildering in their beauty, delightfully sweet-scented.

Queen of Fragrance (H. T.)—Large double elegantly shaped shell pink blooms, tipped with silver. Noted for its powerful perfume.

Rainbow (H. T.)—Beautiful 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 and exquisitely beautiful.

Souv. de Claudius Pernet (H. T.)—On the order of *Constance* or *Golden Emblem* but with large elongated and beautiful formed buds. Color is clear brilliant yellow. Wonderful foliage.

Sunburst (H. T.)—A veritable giant among yellow roses throwing up heavy canes clothed with most ornamental foliage and crowned with glorious buds and flowers. The buds are very long and of most beautiful form, opening into a gorgeous colored flower. The color is a rich cadmium-yellow shaded with orange and copper. One of the very finest yellow roses yet raised.

T. F. Crozier (H. T.)—Clear canary yellow, large buds.

Winnie Davis—Fine apricot pink shading to the flesh tint at base of petals. A grand, hardy garden rose.

William F. Dreer (H.)—Soft shell pink, base of petals rich golden yellow. Sometimes the entire flower is covered with a golden suffusion. This rose has the same parentage as the well known *Los Angeles* and like that sort is beautiful in all stages of development from the opening buds to the well expanded flowers. We are quite sure that all who try this variety will be pleased with it.

CLIMBING ROSES—50c each

ALL TWO-YEAR-OLD FIELD GROWN—Postpaid

Climbing American Beauty—Early. Large, perfectly formed, rosy crimson, sweet-scented flowers on long stems. With the pruning out each year of the older canes, the plant continues permanently and increasingly a pleasure.

Cascadia—Small, semi-double flowers of blush-pink, paling to white, borne in heads like *phlox*. A pillar rose growing 6 feet or more. Slightly fragrant. Continuous bloomer.

Cecil Brunner—Clusters of pretty pink flowers, especially beautiful in bud.

Crimson Rambler—This grand rose improves upon acquaintance; the better it is known the more popular it becomes. It is of rapid growth; attains a height of 15 feet in a season. Flowers in trusses, measuring 9 inches from base and 7 inches across, fairly covering the plant from the ground to the top.

Dorothy Perkins—Great clusters of pretty double pink flowers smothering the plant for a long season of the year. Elegant leathery foliage, impervious to mildew and hardy as an oak tree. This sort is now the most generally planted of this class of roses.

Dr. Huey (H. W.)—Semi-double, rather large flowers of deepest crimson-maroon, shaded black, borne in profuse clusters on a lusty plant, with foliage not immune to mildew.

Hiawatha (T.)—Single, ruby crimson, large single flowers.

Lady Hillingdon—Apricot-yellow, fragrant, fine.

Mad. Caroline Testout—Immense globular flowers of the same beautiful shade of pink as seen in the bush sort.

Los Angeles—Flesh pink.

Marchal Niel—Lovely buds and flowers of deep golden yellow; double and extremely fragrant. Strong growth and abundant bloom, but not freely recurrent.

Pauls Scarlet Climber—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers. These flowers never turn blue but retain their intense coloring until petals fall. Cannot be too heartily recommended as essential in any garden.

Sunburst—Golden yellow to orange, fragrant.

Tausendschon—A lovely shade of soft pink, free and vigorous; splendid foliage.

BABY RAMBLER AND POLYANTHA ROSES

Price 50c each—per dozen, \$5.00, postpaid

A type of roses which grow only a foot or two high, bear large clusters of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy.

Crimson Baby Rambler—Has the same bright crimson color as the *Climbing Crimson Rambler* and blooms in clusters of 20 to 40 flowers at one time on plants of fair size. "Baby Rambler" is one of the best red roses for bedding.

Cecil Brunner (The Fairy, or Sweetheart Rose)—A *Polyantha* variety with dainty double little flowers of perfect form produced in many flowered, graceful sprays; color a soft rosy-pink on a rich creamy-white ground.

Baby Tausendschoen—Dwarf *Polyantha* with its bountiful bouquets of creamy white saucer-shaped flowers. Every petal edged with rosy pink.

Jessie—A dependable sort, producing continually bright cherry-crimson flowers which endure well on the plants. Particularly useful for massing because of its continuous-blooming habit.

Triomphe Orleansais—Flowers large, for the class, of a bright cerise-red which is very lasting. A vigorous grower, bearing its blooms profusely in clusters.

FERTILIZER FOR ROSES

Roses are hungry things. Cow manure is best, but, it is very hard to get. A mixture of two parts of bone meal and one part of sheep guano is good and is best used when planting. Work a trowel full around each plant as you set it. However, be sure and do not get it in contact with the roots. About twice a year give the plants a trowel full of bone meal worked well into the soil around each plant.

SPECIAL We have a surplus of **ROSES**
Mme. Caroline Testout

6 for \$2.00; 12 for \$3.50

Postpaid

See page 37

FRUIT TREE DEPARTMENT

OUR SHIPPING SEASON for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early spring planting while stock is dormant.

HOW WE SHIP—

BY FREIGHT OR EXPRESS. Every article not specially priced is priced for delivery by Freight or Express, packed free, but customer to pay transportation charges. All heavy trees in large quantities should be sent by freight if time is not too urgent, as the carrying charge is much less; and our perfect packing admits a long journey without injury to the trees.

FRUIT TREES BY MAIL. "Mail Size." If you wish these sent by parcel post add 10c per tree for postage and packing. All one year old trees, vines, etc., well rooted, cut back to suitable size, guaranteed to reach you in good condition. Those wishing to save freight or express charges on long distance shipments, to plant young thrifty stock and train according to their own requirements, will find this size admirably suited to their needs.

POSITIVELY NO NURSERY STOCK SENT C. O. D.

IMPORTANT. Unpack and examine all packages on arrival, and if roots are dry, give a good soaking with water. Never let trees lie about with their roots exposed to the air. If several have to be planted, open a trench and "heel in" the roots and then plant at your leisure.

HINTS ON TRANSPLANTING

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

APPLES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet	\$0.50	\$4.50	\$30.00
One year, 4 to 6 feet		.60 5.50	40.00
Selected trees		75c-1.00	

Write for our low prices per 1000.

Summer

Red Astrachan—Large, deep crimson, white flesh.
Red June—Medium, oblong, deep red.
Early Harvest—Medium, bright straw color.
Yellow Transparent—Medium, roundish, pale yellow.
Duchess of Oldenburg—Large, yellow, streaked with red.

Age of Bearing—Distance to Plant

As the age of bearing depends so much upon variety, soil, climatic conditions and care given, this can only be an approximate table under average conditions. To ascertain the number of trees or plants required for any given space, multiply the length of the space by the breadth to ascertain the number of square feet contained therein. Then multiply the distance apart you intend to set your rows by the distance between each tree or plant in the row to get the number of square feet each tree or plant will take. Divide the number of square feet in the given space by the number of square feet each tree will require and the result is the quantity of trees or plants for that given space.

	Age of Bearing	Distance Apart	Number per Acre
Apples, Std.	3 to 6 years	35x35 ft.	35
Apricots	3 years	15x15 ft.	193
Blackberries	1 year	8x 6 ft.	907
Cherries—			
Sour	3 to 4 years	15x15 ft.	193
Sweet	3 to 4 years	20x20 ft.	108
Currants	2 years	4x 4 ft.	2722
Gooseberries	2 years	4x 4 ft.	2722
Grape	2 years	8x 8 ft.	680
Peaches	2 years	15x15 ft.	193
Pears—			
Standard	3 to 4 years	20x20 ft.	108
Dwarf	2 years	10x10 ft.	435
Plums	3 to 4 years	20x20 ft.	108
Quinces	4 to 5 years	10x10 ft.	435
Raspberries	1 year	6x 4 ft.	1815
Rhubarb	1 year	4x 3 ft.	3630
Strawberries—			
Farm	1 year	4x 1 ft.	10890
Garden	1 year	2x 1 ft.	21780

APPLES—Autumn

Alexander—Large, greenish yellow, streaked with red.
Fameuse—Medium greenish yellow, streaked with red.
Gravenstein—Large, beautifully dashed with red and orange.
Maiden's Blush—Medium, yellow, red cheek.
Red Beitigheimer—Very large, cream colored, covered with crimson.
Waxen—Medium, pale yellow.

APPLES—Winter

Baldwin—Large, deep bright red.
Arkansas Black—Medium, dark maroon.
Ben Davis—Medium, yellowish covered with red.
Delicious—One of the best.
King—Very large, yellowish shaded with red.
Jonathan—Medium, light yellow, covered with red stripes.
Spitzenburg—Large, yellowish, broken with stripes of bright red.
Northern Spy—Large, greenish yellow, covered with purplish red stripes.
Tolman's Sweet—Medium, whitish yellow, slightly tinged red.
Wealthy—Medium, whitish yellow, shaded deep red.
Winesap—Medium, yellow, streaked red.
Rome Beauty—Large, yellow, shaded with bright red.
Yellow Bellflower—Large, yellow.
Yellow Newtown Pippin—Large, smooth, golden yellow.
Winter Banana—Yellow, bluish cheek, sub-acid, medium size.
Bismark—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheek; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old.

THE LEWIS APRICOT

CHERRIES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 ft.-----	\$.75	\$7.00	\$50.00
One year, 4 to 6 ft.-----	1.00	10.00	75.00
Selected trees -----	1.50	10.00

Royal Ann (Napoleon Bigarreau)—A magnificent cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer. (Early July.)

Lambert—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann.

Montmorency—Large, sour fruit, similar though larger than the Early Richmond; quite hardy. May.

May Duke—Medium size, dark red; flesh tender, juicy and sub-acid; an excellent variety, and one of the earliest of its class.

Bing—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

Kentish (Early Richmond)—Light red, juicy; one of the best acid cherries and unsurpassed for cooking purposes; very productive.

Tartarian—The very finest cherry to eat fresh. Large bright purplish black; flesh rich and very juicy. A vigorous erect tree bearing abundantly every year. Brings high prices in the fresh fruit markets because it comes in early. A good pollinizer for the other sweet cherries we list and should be included in every planting. Early June.

PRUNES

Sugar—Vigorous grower; fruit large and dries quickly; flesh tender and rich in sugar; color dark purple. August.

APRICOTS

	Each	Per 10	100
4 to 5 feet -----	\$0.75	\$6.50	\$50.00
3 to 4 feet -----	.50	4.50	40.00

Moorpark—Very large, yellowish green, shaded brown.

Breda—Medium, orange color.

Tilton—Large, rich color.

Royal—Above medium, rich and juicy.

The Lewis—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen, and is perfectly hardy.

PEACHES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet -----	\$0.75	\$6.00	Write
Selected trees -----	1.00	8.00	Write

J. H. Hale—A valuable table, shipping and drying peach. Smooth skin, almost fuzzless. Very firm. Ships almost like an apple. Yellow freestone; flesh tender, excellent quality. Larger than the Elberta and ripening about the same period.

Elberta—Very large, bright yellow, red cheek; flesh yellow; juicy, sweet; regular bearer; fruit very showy and perfect; freestone; early.

Early Crawford—Very large, yellow; with red cheek; flesh sweet and excellent. Our most popular peach for table and canning; freestone.

Late Crawford—Very large, roundish; yellow; with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

Mayflower—Beautiful red all over; extremely early; tree hardy and healthy. Last of June. Freestone.

Tuscan Cling—Very large; yellow, blushed red. Vigorous; strong grower. July, August.

PRUNES

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet -----	\$0.50	\$3.00	\$20.00
One year, 4 to 6 feet -----	.50	4.00	30.00
Selected trees -----	75c-1.00		

Italian (Fallenberg)—Medium, oval tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. Most popular.

Improved Petite—Medium size, egg-shaped; violet purple; sweet, rich and sugary; very productive; a good fresh and for drying.

Silver—Very large.

Hungarian—Very large, dark red.

Giant—The largest, dark crimson.

New Standard—(Burbank Production)—The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches around one way by nearly six inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.

PLUMS

Unless otherwise priced	Each	Per 10	100
One year, 3 to 4 feet	\$0.75	\$6.00	\$35.00
One year, 4 to 6 feet	1.00	7.50	45.00
Selected trees	\$1.00-\$2.00		

Prinlew—A valuable new variety, produced by H. A. Lewis. A heavy and sure cropper. Plums of large size; skin yellow, overspread with bright red when fully ripe; a handsome looking plum and the rich, golden flesh is firm, but juicy; fine grained and most delicious of all, either raw or cooked. It's good as a peach. Stands handling and shipping well. Ripe in August. If you only have room for one plum, plant a Prinlew.

Satsuma—(Blood Plum)—Quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

Damson—Shropshire—Medium size, dark purple; firm; flesh greenish, juicy and rich. Vigorous. Late September.

Abundance—Large, flesh yellow, early.

Bradshaw—Large, reddish, purple.

Columbia—Large, brownish, purple.

Clyman—Medium, mottled, reddish purple.

Damson—Small, skin purple, oval.

Green Gage—Small, round, green flesh.

Peach—Large, brownish red, flesh yellow.

Reine Claud—Large, greenish, marked red.

Washington—Large, dull yellow with crimson blush.

Yellow Egg—Large, deep golden yellow.

QUINCE

One year old	\$1.00 each
Selected trees	1.25 each

Orange—Large golden.

Champion—Very large, bright yellow.

Pineapple—Flavor is suggestive of the pineapple; the fruit resembles the Orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

CURRANTS

Low prices by the thousand.

Each 20c; 10 \$1.75; 100 \$12.50.

Perfection—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid; no currant can approach in yield or quality this wonderful new currant.

Cherry—Very large, deep red, fine for preserving; valuable market variety.

Fay's Prolific—Bright red, very sweet, stems longer than Cherry and fruit hangs on better than most varieties. To be planted with Cherry.

GOOSEBERRIES

Each 20c; 10 \$1.75; 100 \$12.50

Oregon Champion—Berries large, round and pale green; fine for table use and pies, hardy, strong and a very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write,

PEARS

	Each	Per 10	Per 100
First Grade, 1 year,			
4 to 6 feet	\$1.00	\$8.50	\$60.00
First Grade, 1 year,			
3 to 4 feet	.75	6.50	45.00
P. O. M. Portland; if mailed, postage extra.			

AUTUMN VARIETIES

Bartlett—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

Beurre Bosc—Large, beautiful, russet; highly flavored; fine for shipping. September.

Beurre D'Anjou—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

Comice—A splendid commercial variety, being of fine size; good appearance; ships well. October.

Fall Butter—A favorite fall pear; yellow, sweet and juicy. September.

Flemish Beauty—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the Northwest.

Seckel—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek. September, October.

WINTER VARIETIES

P. Barry—Fine keeper. Very large, juicy, fine grained, yellow. December, March.

Winter Bartlett—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

Winter Nellis—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

NECTARINES

Selected Trees 75c Each

Boston—Large, deep yellow, bright flush; flesh yellow; very rich and luscious. Best for Oregon. August 1.

Early Violet—Medium; skin pale, shaded violet; flesh white; good. July.

CRAB APPLES

Price, 75c each

Florence—Red striped; early, juicy and crisp; fine for home gardens. September 1.

Red Siberian—Yellow with scarlet cheek. Bears young and abundantly. September.

Transcendent—Very large, good for cider; yellow striped red. Adapted to Montana. September.

How to Prune Fruit Trees

For the home orchard, the trees should be gone over once each season and where limbs are crowding, they should be thinned out enough so that they do not rub or interfere one with the other. Best results are usually obtained when this is done in late winter or early spring. All cuts should be made smooth with the shoulder which extends slightly out from the body. Do not leave any stubs, but cut close up to the shoulder.

Do not trim lower limbs off to make high headed trees. Low, compact heads stand the windy conditions of the Northwest, better than high-open-topped trees. Just use common sense in thinning out the limbs, cutting out the most undesirable, where two limbs are interfering one with another. Heavy later pruning can be avoided if care is taken the first two seasons after planting, to see that the heads are properly formed. It is important to get the right frame limbs for the tree right at the start. If this is properly done, less later pruning will be required.

BERRY PLANTS

**CORY THORNTLESS
BLACKBERRY**

The berries often measure $2\frac{1}{2}$ inches in length, have a small core and are almost seedless. The flavor is like the wild berry, but they are richer and sweeter than other blackberries, yet are acid enough to make the finest of jelly. No thorns, thereby easier and quicker picked, more productive, more profitable; of trailing nature.

Prices Cory Thornless Blackberry

Each, postpaid	\$0.20
Per 10, prepaid	1.75
Per 100, prepaid	15.00

BLACKBERRIES

	Each	Per 10	100
Price	\$0.20	\$1.50	\$10.00

Lawton—Fruit large, very productive, well and favorably known; Oregon's most popular kind.

Evergreen—An Oregon introduction; beautiful lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November.

Himalaya Giant—An exceedingly strong, rampant grower of a trailing nature; everbearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor.

Iceberg, the White Blackberry

Strange as it may seem this is a real creamy white Blackberry. Mixed with the jet black ones for dessert it makes a most wonderful dish. The fruit is about the size of Snyder with few seeds and quite sweet when fully ripe. The bushes are good strong growers and very productive. This is not a worthless novelty but a fruit of real value, and should be in every garden.

Price, 15c cents each; \$1.50 per dozen.

DEWBERRY

Lucretia—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines, **STRONG PLANTS**. Each 25c; per doz. \$2.50; 100, \$12.50; 1000, price on request.

**WE WILL HAVE NO STRAWBERRY
PLANTS TO OFFER**

LOGANBERRY

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. Color dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly, jam or "juices" is without an equal.

Transplants (2 year, extra strong)—Prices, each 25c; doz., \$2.25, postpaid. Not prepaid, each 20c; doz., \$2.00; 100, \$15.00.

Loganberry "Tip" Plants—These are ready after March 1, but are very tender and must be handled with care. Not mailable. Prices on request.

RED RASPBERRIES

Special low prices by the thousand. Write

	Each	Per 10	100
1 year	\$0.15	\$0.75	\$3.00

Cuthbert ("Queen of the Market.")—A remarkably strong, hardy variety; standing the northern winter and southern summers equal to any. Very large, conical berries, so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

Marlboro—Very large and earlier than Cuthbert; beautiful, bright scarlet; good quality; hardy and productive.

Red Raspberry—Everbearing

1 year	Each \$0.15; Per 10 \$1.25, Postpaid
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La France is a rapid, vigorous grower. The berries are firm, twice the size of most; beautiful color, fragrant and delicious in flavor all season long.

The fruit is borne on racemes, one to three feet long, in large clusters, and the same racemes show the unusual sight of buds, blooms, fruit just setting, green berries and the ripened fruit. This condition continues through the entire season. The late crops, when raspberries are scarce and high in price, is unusually heavy.

St. Regis Raspberry— Everbearing

Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snow fall. Berries bright crimson, large size, rich, sugary with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Each 15c; per 10, \$1.25, Postpaid

Yellow Raspberries

Golden Queen—A beautiful, large golden yellow berry, seedling of the Cuthbert and surpassing that variety in size, beauty, quality and adaptability. Canes hardy, of strongest growth, productive. Should be in every garden, its beauty and high quality placing it at the head for table use. By mail. Price, each, 15c; per 10, \$1.25, postpaid.

Black Raspberries

	Each	Per 10	100
2 years	\$0.25	\$2.25	\$20.00
1 year	\$0.20	1.50	12.50

Cumberland

A healthy, vigorous grower, throwing up stout, stocky, well branched canes that produce immense crops. Fruit very profitable; large, firm, quality about same as Gregg, keeps and ships as well as any of the blacks. Mid-season.

Gregg—Of good size, fine quality, very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

Plum Farmer—Large, black, hardy and productive. One of the very best.

NUT TREES

GRAFTED WALNUTS

We offer a splendid strain of Franquettes, the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut.

Trees one and two years from the graft on three and four-year-old roots:

These are all too large to be sent by parcel post.

Size	Hundred lots	Dozen lots	Each
8 to 10 ft.	\$1.40	\$1.50	\$1.60
6 to 8 ft.	1.20	1.30	1.40
4 to 6 ft.	1.00	1.10	1.20

FILBERTS

Plant more of them

Barcelona—Magnificent large nut from Spain, first quality; can be grown as low standard tree or bush. 2 to 3 feet. Each 75c; 10, \$5.00.

Du Chilly—The largest Filbert on Pacific Coast. Nuts are broad, 1 inch by ¾ of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollinizer for Barcelona. 2 to 3 feet. Each 75c; 10, \$5.00.

ALMOND (Nut Bearing)

	Each	Per 10
3 to 5 feet.....	\$0.75	\$6.00

I. X. L.
A vigorous grower and sure cropper, producing nuts of large size and handsome appearance; shell thin; most popular commercial.

BUTTERNUT

A beautifully formed tree bearing a rough coated nut of most attractive flavor, well known to the middle West. Succeeds fairly well in the Pacific States. Price, each \$1.50.

CHESTNUT

	Each	Per 10
3 to 5 feet.....	\$0.75	\$6.00

American Sweet—Makes a handsome shade tree; full medium size, sweet and well flavored.

Spanish—A valuable species both for ornamental use and fruit. It forms a handsome lawn tree and produces much larger fruit than the average American variety.

MAMMOTH JAPANESE

A variety we import from Japan; yields much the best and largest fruit.

If you are interested in Grafted Chestnuts write us.

HICKORY

Shellbark—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent. 3 to 5 feet. Each \$2.00; 10, \$15.00.

GRAPES

The grape is the easiest of all fruits to grow. The plants take little room, they thrive despite neglect and every year they produce their wealth of beautiful, health-giving fruit. With its roots in any old nook you can lead it away in any direction to provide a grateful shade for the pump, or for a restful seat, a border for a walk or climbing on the wall or house—East, West, North or South, on hill or in valley, on poor soil or rich, the grape grows, thrives, bears; it never disappoints. Plant a few vines or a large vineyard—make your own grape juice—jams, marmalades, jelly; and have plenty to eat fresh from your own vines.

	Each	Per 12	100
One year old	\$0.15	\$1.25	\$7.50

Unless noted.

Brighton—Bright red, heavily shouldered; large bunch; one of the sweetest and most delicious. Known everywhere. Ripens before Worden. It adapts itself to most any soil, is always productive; a good strong growing, hardy vine, should be planted with other sorts for pollinization. Worden and Concord are ideal for this purpose. Each 15c; 12 for \$1.50.

Campbell's Early—Berries large, nearly round, black, with light purple bloom; flesh rather firm but tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August. Each 25c.

Concord—Large, black grape; bunches compact; berries round, sweet and pleasant. August. Each 15c; 12 for \$1.25.

Delaware—One of the finest of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red. August. Each 15c; 12 for \$1.25.

Lucile—Early red. A dark red grape, medium to large berry and bunch, excellent quality, keeps well and ships well. In vigor, health, hardiness, productiveness, it is surpassed by no other variety, and it is practically immune to fungous diseases. It is one of the most beautiful hardy grapes and it sells at high prices. Should be in every home vineyard. Each 25c; 12 for \$2.50.

Moore's Early—Bunch medium; berry large, resembling Concord, but more pulp and is earlier. 15c each; 12 for \$1.25.

Niagara—Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow; flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September. Each 15c; 12 for \$1.25.

Worden—Bunch very large and compact; berry large, black; an improved Concord. Late August. Each 15c; 12 for \$1.25.

BUTZER'S DOLLAR COLLECTION OF GRAPE VINES

\$1.50 Worth for \$1.00, Postpaid

No change can be made in varieties

- 2 Grapes, Red—Brighton
- 2 Grapes, Black—Concord
- 2 Grapes, Red—Lucile
- 2 Grapes, Green—Niagara
- 2 Grapes, Black—Worden

10 of the best grapes for the West for
\$1.00, Postpaid

YOUNGBERRY

Said to be a cross between the Loganberry and the Dewberry. An exceptionally fine flavored, very productive berry. Bears early and commands the highest market prices. The fruit colors well and is exceptionally sweet and large. Color, jet black. 30c each, \$3.00 doz., postpaid.

ORNAMENTAL CLIMBING VINES

BOSTON IVY

Amphelopsis

Veitchi (Boston Ivy)—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc. Clings to the smoothest surface. Foliage rich olive green during the summer, bright crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

Quinquifolia (Virginia Creeper, or American Ivy)—One of the best and quickest growing varieties for covering trellises, arbors, etc. Its large deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

CINNAMON VINES are the most desirable, easiest grown climbers in the world. They are from China—the land of wonders. Their abundant blossoms perfume the air for a long distance. No words can describe their delicious fragrance. Perfectly hardy—thriving in all soils, in sun or shade, wet or dry. No insects, blight or disease of any kind ever troubles them, no winter harms. Once planted they will grow a lifetime.

Each 25c; five for \$1.00, postpaid

CLEMATIS

Duchess of Edinburgh—Large, shapely double flowering pure white. Each \$1.00

Jackmanii—Intense violet purple, with a rich velvety appearance; distinctly veined. Each \$1.50

Mme. Eduard Andre—A new bright red. Large flowering and as free bloomer as Jackmanii. With slight protection it will withstand the winters in Colorado. Postpaid. Each \$1.00

Clematis Paniculata—A rapid and vigorous grower; it produces sheets of medium sized, pure white flowers of the most pleasing fragrance; well adapted for covering trellises or fences. Choice plants, 50c; extra fine, 75c

That which is ugly may be transformed into beauty with vines

Celastrus Scandens (Bittersweet)

Handsome glossy foliage and large clusters of beautiful, orange crimson fruits retained all winter. Its graceful sprays of berries make charming winter house decorations. A popular vine for covering rough fences. Each \$1.00

Aristolochia Sipho (Dutchman's Pipe Vine)

A vigorous and rapid-growing climber, bearing singular brownish-colored flowers, resembling in shape a pipe. Its flowers, however, are of little value compared to its light green leaves, which are of very large size, and retain their color from early spring to late fall; perfectly hardy. Very strong plants, \$1.00 each.

Honeysuckle

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

Your choice of the following, 60 to 75c each; extra strong, \$1.00.

Halleana—Very popular; almost evergreen; flowers white, passing to yellow.

Belgica (Monthly Fragrant)—Flowers are large; color red and yellow.

Ivy Evergreen

Common English—Thick, leathery evergreen leaves. Strong grower. Good roots. Each 25c; large, 50c.

Jasmines

Nudiflorum—Favorite climber for sheltered positions; hardy south of Philadelphia, fragrant yellow flowers. Each \$1.00

Officinale—Pure white fragrant flowers. A splendid climber for a sheltered position. Each \$1.00

Bignonia (Trumpet Vine)

Radicans—For covering unsightly places, stumps, rockwork, or wherever a showy-flowering vine is desired, this will be found very useful. The dark red flowers, with orange throat, are large, attractive, and borne profusely; very hardy. Each \$1.00

Wistarias

The strongest growing of all hardy vines, easily reaching the roof of a two-story building in a few years if given a chance to climb. (See cut.) Flowers appear with the first leaves late in the spring.

Sinensis—Purple or white; strong vines. Each \$1.50 to \$2.00

W. Multijuga—Similar to Wistaria Sinensis except in color of flowers which are dark violet blue, borne in very long racemes. Each \$2.00

DECIDUOUS SHRUBS

Almond (Prunus)

Pink Flowering (P. Japonica)—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. Each \$1.50.

Althea (Rose of Sharon)

Late summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. Each \$1.00.

Azalea

A. Mollis—Low growing shrub that in the early spring is covered with gorgeous flowers before the leaves appear. Each \$2.50.

Barberry

Thunbergii—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in Autumn. Bright scarlet berries all winter. Each 60c, 75c and \$1.00.

Buddleia (Butterfly Bush)

Magnifica — Lovely long spikes of lilac-colored flowers, Summer and Fall. Attracts butterflies. Small plant, 50c; large, 75c.

Deutzias

Lemoinei—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each of purest white, 3 to 4 feet. 75c each.

Pride of Rochester—Flowers very early, double; pure white, tinged with blush; great profusion. Grows 6 to 8 feet. 75c each.

Gracilis Rosea—Dwarf growing with sprays of pretty light pink flowers late in the Spring. A beautiful shrub. 75c each.

Forsythia (Golden Bells)

Intermedia—Blossoms early in Spring, before the leaves appear, when it is covered with golden bell-like flowers, 2 to 3 feet. Each 60c to 75c.

Fortunei—Upright; makes fine single specimens; golden flowers in profusion in April. Each 60c to 75c.

Hydrangea

Paniculata Grandiflora—Immense panicles of bloom, from July to November, creamy white, pink flush. Prune back in early Spring about half of previous year's growth. Hardy everywhere; good for cemetery planting. 2 to 3 feet, 75c; 3 to 4 feet, \$1.00.

Otakusa—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. Fine for shady places. Each 75c to \$1.50.

Lilac (Syringa Vulgaris)

Common Purple—Very fragrant, an old favorite. 3 to 4 feet, 75c; 10, \$6.00.

Common White—Same as above, flowers white. 3 to 4 feet, 50c; 10, \$4.50.

Mock Orange (Philadelphus)

Grandiflora—Flowers large; slender twig habit. 3 to 4 feet, 50c; 10, \$4.50.

Hybrid—2 to 3 feet, 50c.

Quince

Japonica (Japan Flowering)—Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible. 2 to 3 feet. Each \$1.00.

Snowball

Common—Flowers globular, pure white, in May. 3 to 4 feet. Each 75c.

Japanese—Flowers pure white, delicate large globular heads in May. 2 to 3 feet, \$1.00.

Spiraeas

Each 75c

Spiraea Thunbergii—Charming spiraea with graceful form and abundant blooms.

Billard's (S. Billardi)—Flowers red in dense spikes, blooms most of Summer.

Van Houtte's Bridal Wreaths (S. Van Houtti)—Very graceful; flowers white in round clusters. May.

Crimson—Anthony Waterer (S. Bumalda)—A most desirable variety, having deep red flowers.

Weigelia

Candida—Flowers white, bush tall. 75c.

Rosea—Flowers light pink, shrub compact. 75c.

Eva Rathke—Flowers red, one of the best. Slightly dwarf. 75c.

Variegated—Leaves become silver white. 75c.

EVERGREENS

Araucaria

Imbricata (Monkey Puzzle)—A fine tree of regular pyramidal form; leaves bright green, overlapping each other; 8 to 10 in. \$1.00 each.

Arboretum

American—18 to 24 inches. Native, known as white cedar. Foliage bright green, yellow-green underneath; brown and bronze in winter. \$2.50 each.

Golden—Elegant; habit regular; foliage tinged with gold in spring. \$3.00 each.

American Variegated Pyramidal — Foliage dark green. \$3.00 each.

Cedrus

Japanese Cedar (Cryptomeria Elegans)—Beautiful delicate green foliage and graceful habit, color changing to reddish brown in winter. Price, \$1.00 to \$2.50 each.

Deodar or Indian Cedar (C. Deodara)—Very handsome; branches drooping; foliage silvery green. Very popular. Each \$2.50.

Cypress (Cypressus)

Allumii—Handsome pyramid shaped conifer. Foliage greenish-blue. \$2.00 to \$3.00 each.

Cypress Lawson's (Chamaecyparis Lawsoniana)—Graceful and conspicuous; branches horizontal, slightly pendulous; foliage dark green. \$1.00 to \$2.50 each.

Italian—Bright green. Very compact in growth; nothing finer in upright type. 2 to 3 ft., each \$2.50; 3 to 4 ft., \$3.00.

Hemlock (Tsuga)

Western (T. Hookeriana)—Very beautiful and appealing; branches pendant and foliage deep green. Each \$2.50.

Juniper (Juniperus)

Irish (J. Communis Hibernica)—Pyramidal in form, foliage silvery gray. Very striking. Each \$2.00.

Retinospora

Plumosa—An exceedingly handsome, acorn-shaped evergreen of medium tall growth, from Japan, with feathery, light green foliage. \$3.00 each.

Squarrosa Veitchii—Dense growth; soft beautiful silvery blue foliage, arranged in spirals which gives the impression of boiling over. \$3.00 each.

Spruce (Picea)

Norway (P. Excelsa) — A lofty, rapid grower; branches drooping. Fine for hedge or wind-break. \$1.00 to \$2.00 each.

Colorado (Pungens)—The original form of the famous Blue Spruce; foliage sometimes quite blue, mostly light green. A vigorous grower and hardy, making fine specimens in a broad based, sharply defined pyramidal form; foliage rigidly angular with sharp needles very densely set. \$3.50 each.

SPECIAL—We will send you three nice Evergreen Shrubs of three varieties our selection for \$2.00; regular price \$4.00 and over. We need the room and as long as we have them they are yours. Too large to be sent by parcel post, but should be sent by express or freight. Order now before stock is sold.

BROAD LEAVED EVERGREEN TREES AND SHRUBS

Abelia

A beautiful, low-growing, bushy, small-leaved evergreen, with dark green, glossy leaves, bearing small clusters of beautiful pink to white flowers from June until late fall. Very popular. Nice plants \$1.00; specimens, \$1.50 to \$2.50.

Aucuba

Japonica—Japan evergreen, with shining foliage and red berries. Each \$1.00 and up.

Japonica Variegata—Green and yellow foliage; very showy; Large plants for immediate effect. Each \$2.00 to \$3.00.

Boxwood (Buxus)

Pyramidal Boxwood—Cone shaped plant of great beauty. 2 to 2½ feet, each \$5.00; 2½ to 3½ feet, each \$6.00.

Globe Boxwood—Trimmed in shape of a globe. Each \$2.50 to \$5.00.

Boxwoods for Hedges and Borders—Write for prices on quantity desired.

Broom

Scotch—Branches drooping covered in spring with bright yellow flowers. 3 to 4 feet, \$1.25.

White Flowering—Same as Scotch; flowers white. 3 to 4 feet, \$1.00.

Spanish—Upright, branches leafless, superior to Scotch. Blooms continuously throughout the summer. 3 to 4 feet, 75c.

Camellia

Camellia—Small trees with shining waxy leaves, and beautiful waxy flowers, very much resembling a small rose. We are only able to offer these in assorted colors, 1½ feet high, each \$2.50. A nice plant for \$1.50.

Daphne (Odora)

Japanese shrub with waxy light green foliage, pink and white flowers in early spring of wonderful fragrance. Well rooted. No color guarantee. Each \$2.00 to \$3.50.

Cotoneaster

C. Horizontalis (Trailing Cotoneaster)—Low growing with horizontal branches, dark green leaves. Fruit bright red. Each \$1.50.

C. Franchetti—A large sized shrub of graceful droopy habit, covered with a mass of red berries in Fall. Each 75c to \$1.50.

C. Simonsii—A pretty shrub of upright growth, bright leaves and white pinkish flowers, covered with large red berries all winter. Fine for massing. Each 75c to \$2.00.

Holly (Ilex)

English (Aquifolia)—Prickly, dark green foliage; grows moderately fast, covered during the Winter months with bright red berries. Prices: Berry-bearing trees, per foot, \$1.00; nice trees, \$2.50 to \$6.00; ordinary stock, per foot, 75c; nice trees, \$1.50 to \$3.00.

Laurel

English—Handsome, large-leaved, shining foliage. Excellent for large hedges or screens or as single specimens. Each 35c to \$2.00. Extra large, \$3.00 to \$5.00.

Laurustinus

Luxuriant dark green foliage, with clusters of small white flowers in Winter. 1 to 2 feet. Each \$1.00 and up.

Lonicera

Nitida (Evergreen Bush Honeysuckle)—New evergreen shrub, slender branches with bright glossy foliage. Excellent for massing or tub plant. There is no better evergreen shrub for the price. Each \$1.00 to \$1.50. Trimmed pyramidal shape, \$2.50.

Oregon Grape

Mahonia Aquifolia—Official flower for the state of Oregon. Each 75c to \$2.00.

Portugal Laurel

Beautiful slow growing laurel, dark green glossy leaves, small, very compact. 18 to 24 in., each \$2.00; 24 to 30 in., each \$3.00.

Privet (Ligustrum Ovalifolium)

Golden Privet—Beautiful variegated shrub to plant among evergreens, giving a wonderful effect. 2 ft., each \$1.00 to \$1.50.

California Privet—Our best plant for hedges. Plant in double row 2 ft. apart, 6 in. between plants.

18 to 24 in., 10 plants, \$2.00; 100, write for price.

24 to 30 in., 10 plants, \$2.25; 100, write for price.

Pyracantha

Evergreen Thorn—Tall growing, long narrow green leaves, small, white flowers, followed by orange berries all winter. We have orange-scarlet and orange-yellow berried plants. Each 75c to \$1.50.

Veronica

These are dwarf shrubs of rather recent introduction, but coming into great favor in landscape planting. They are from 10 inches to 3 feet in height, with small evergreen foliage and white, pink and red flowers. Price 75c to \$2.00.

Buxifolia—Very dwarf growth, light green foliage. 75c to \$1.00 each.

Cupressoides—Grows to 3 feet. Fine foliage, resembling a conifer.

Glaucophylla—With pointed leaves of a glaucous color, 2 feet.

Traversii—The best known variety. White flowers.

Ornamentals—Shade Trees

Trees 6 to 8 feet and about 1 in. Caliper unless otherwise stated.

ASH, White	\$1.50
BIRCH, Eup.	2.00
BIRCH, Cut-leaf, 4 to 6 feet	2.50
BOXELDER, Sil., 4 to 6 feet	2.00
CATALPA, West	1.50
CATALPA, Um., 5 to 6 feet	3.00
CHERRY, Japanese Fig., 3 to 5 feet	1.50
CRAB, Flowering, Bechtel Dbie., 3 to 4 feet	1.25
CRAB, Scheidecker, 3 to 4 feet	1.50
DOGWOOD, Pacific	1.50
ELM, American	1.50
ELM, English	1.50
GOLDENCHAIN (Laburnum)	1.50
HORSECHESTNUT	2.00
LINDEN, 4 to 6 feet	2.00
(American or European)	
LOCUST, Com. Blk.	1.00
LOCUST, Honey	1.00
MAIDENHAIR TREE, 3 to 5 feet	1.00
MAPLE, Oregon	1.50
MAPLE, Norway	1.50
MAPLE, Silver	1.50
MAPLE, Sycamore	1.50
MAPLE, Sugar	1.50
MOUNTAIN ASH, Eup., 5 to 6 feet	1.25
MULBERRY, Russian	1.00
OAK, Common Red, 8 to 10 feet	2.00
OAK, English	2.00
OAK, Pin	2.00
OLIVE, Russian, 3 to 4 feet	1.00
PLUM, Db. Fig.	1.50
PLUM, Purp. Leaf, 3 year	1.50
PLUM, Purp. Leaf, 1 year	1.00
PERSIMMON, Jap., 5 to 6 ft.	1.50
POPLAR, Balm of Gilead	1.50
POPLAR, Carolina	1.00
POPLAR, Lombardy	1.25
POPLAR, Silver	1.50
PLANE, Tree (Sycamore)	1.50
THORN, White	2.00
THORN, Red	3.25
TULIP, Tree, 3 to 4 feet	1.00
WILLOW, Babylon, 4 to 6 feet	1.75
WILLOW, Golden	2.00
WILLOW, Wisconsin	1.50

LAWN GRASS

BUTZER'S FANCY LAWN GRASS SEED

It is the easiest thing in the world to grow a beautiful lawn. There is nothing that gives quicker growth and a thicker sod than Butzer's Fancy Lawn Grass Mixture. It produces a perfect and enduring lawn of luxuriant richness, with closely interwoven, firm, elastic turf, and is often ready for mowing four weeks from sowing. This Lawn Grass is composed of a combination of various native and foreign, fine-leaved, deep-rooting grasses of interweaving habit, that flourish under our varied conditions, soils and climates, growing during different seasons of the year, so that a deep green, smooth and velvety sward, free from clumps, is maintained from spring to winter, year after year, and without burning brown in summer.

Whether you want to seed a small grass plot in your yard or a lawn of more pretentious size, you should use Butzer's Fancy Lawn Grass Seed. Sow 1 lb. to 400 square feet. Price per lb. 60c, postpaid.

BUTZER'S SHADY LAWN GRASS SEED

For sowing on the north side of buildings, between houses, and for securing a lawn under large shade trees.

In many lawns there are places which seem as if nothing can be grown; some are shaded by large trees and others by buildings. For these locations we have offered for some time our Butzer's Shady-Lawn Grass Seed, which readily meets the desired requirement.

Price, per lb. 75c, postpaid.

CREEPING BENT GRASS

(*Agrostis Stolonifera*.) Distinctive on account of its compact, creeping, rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. If sown alone, use 50 lbs. to the acre. Write for price.

SEASIDE BENT

The long creeping stems and spreading habit of this splendid grass make it ideal for Putting Greens; it makes a lasting turf that withstands hard usage.

The leaves are fine and it develops a dense growth, making it valuable. Write for price.

CHEWING FESCUE

A low-growing grass, fine leaved, forms a close turf that prevents ingress of weeds, permanent in all kinds of soils, even the lightest and driest; unexcelled for lawns and golf courses when properly grown. Write for price.

KENTUCKY BLUE GRASS

Makes an excellent lawn of a dark green color. It forms a fine matt, with care and water makes one of the best lawns.

Write for price

TOP DRESSING YOUR LAWN

The lawn is often neglected by many of us, especially if it seems to be in a thriving condition. We overlook the fact that a continued vigorous growth of any plant life results in reducing in the soil those elements which promote growth. The soil must be fed to produce best results and this is easiest accomplished by applying a top dressing. This may be done in many ways—we recommend our Bone Meal or Grozit, Pulverized Sheep Manure.

GRASS AND FIELD SEEDS

Our Grass Seeds are purchased by us from the best possible source for reliability. Owing to the frequent fluctuation of the market, we cannot quote prices. Write us for prices.

ORCHARD GRASS.

Alfalfa, Grimm
Alfalfa, Dry Land
Clover, Ladino
Clover, White
Clover, Medium Red
Clover, Mammoth Red
Clover, Alsike
Clover, Esparsette
Clover, Sweet
Canadian Blue Grass
Kentucky Blue Grass
Creeping Bent
Crested Dogtail
Chewing Fescue
Browns Inermis
Orchard Grass
Red Top
Reed Canary
Rye Grass
Timothy
Meadow Fescue
Sheep Fescue
Mesquite
Millet
Tall Meadow Oat

Wood Meadow
Poa Bulbosa
Pasture Mixture
Vetches
Rye
Oats

We do not sell

WHEAT

or

BARLEY

for

SEED

Yes—We Have

POA

BULBOSA

(Bulbous Bluegrass)

RED TOP GRASS.

BRUSH PASTURE MIXTURE

The modern farmer and stockman does not dig grubs and stumps from brush lands; the expense of muscle and money is too great to warrant the cost. After the wood from such lands has been cut and sold, he seeds the field to tame grasses and clovers which soon take possession of the soil, when it is pastured with sheep, horses and other stock. During the time of pasturing the roots and stumps will decay and thus the brush lands are made profitable from the beginning at very low cost.

Write for price

WHY SOW MIXED GRASSES

All authorities agree that a mixture of grasses will yield a better crop than a single grass. The greater the number of grasses in a mixture the thicker the stand, and a more prolonged growth is produced.

Mixtures occupy the ground more completely than a single grass and help to keep out weeds. Some grasses grow in tufts and require other grasses to fill in. In pastures, mixtures yield a constant succession of growth from spring till fall. Mixtures last for years. Mixtures insure against failure of any one grass. Mixtures give more and better grazing for a longer season than a single grass. Mixtures will give you a chance for a crop in any season. Mixtures insure a denser growth than the same number of seed of one or two varieties. Grasses differ in the soils in which they yield the best results; they differ in the purposes to which each is best adapted; they differ in the season at which they are at their best.

REED CANARY (Phalaris arundinacea)

Reed Canary Grass—On some farms there will be found a piece of low, wet land, that is too wet for Red Top or other grasses. For such a soil, there is nothing better than Reed Canary Grass. This remarkable grass sends its long, twining roots deep into the soil and brings forth a grass from four to eight feet tall. If you have wet soils you should try some of this wonderful grass seed and see what it will do for you.

Write for price

POA BULBOSA

(Bulbous Blue Grass)

A new grass. It possesses characteristics which are rarely found among grasses. This plant never produces flowers or seeds. In place of seeds it produces a great abundance of small bulbs or bulbets which appear where flowers and seeds normally appear on other blue grasses. Stock is very fond of this grass, and judging from the way cattle thrive on it, it has a high feeding value. It should prove particularly valuable on lands used for fall, winter and spring pasture. Since this plant grows only during the rainy season, it should prove valuable in Southern Oregon on the non-irrigated foothills and shallow lands now idle, owing to summer drought.

TALL MEADOW OAT GRASS (Avena Elatior)

Tall Meadow Oat Grass (Avena Elatior)—A magnificent grass, of rapid, luxuriant growth, growing on rich soil by June 15 to a height of 4 feet. Better than Timothy in the South. Can be cut three times and does well if sown alone. Tall Oat Grass vegetates with great luxuriance. It is early and productive and affords a plentiful aftermath. It is found most beneficial when retained by a close state of feeding. It makes a good hay; is natural to sandy loams, but thrives best on strong tenacious clays. It is a very hardy grass and endures much heat and cold. It possesses the advantage of early, quick and late growth, tillers well and is admirably calculated for a pasture grass. Write for price.

Bermuda Grass (Cynodon Dactylon)—The grass for Southern lawns and pastures; hard to kill; resists drought.

ALFALFA and CLOVERS

ALFALFA, OR LUCERNE CLOVER (MEDICAGO SATIVA)

This wonderfully productive and enduring clover-like plant has been grown in great areas in the Western States for a great many years, both for hay and pasturage. Its value and adaptability for the Eastern and Northern States have been recognized only recently, and its planting in these sections is still in the experimental stage; the conditions requisite for success are not generally understood. It is slower in obtaining a start than common red clover, but when once established in dry or well-drained soil the roots penetrate the subsoil very deeply and the plants continue to produce large crops for many years,—so that the thorough preparation of the soil and the care of the young plants the first season is not unduly expensive when it is considered that a well-cared-for field of Alfalfa will continue to produce heavy and continuous crops of hay and green forage for such a long time. In many cases fields which have been planted fifteen to twenty years are still yielding fine crops.

Like all clovers, the plant draws nitrogen largely from the air, and as the roots penetrate very deeply it is regarded as one of the most valuable plants that can be grown to enrich the fertility of the surface soil. In seeding Alfalfa, well-drained land which will be free from standing water or excessive moisture during the winter months should be chosen. The ground should be plowed and the surface made as fine as possible before sowing the seed. The seed may be sown early in the spring, or in light soils early in the fall, and in clean land can be sown broadcast, using 20 to 30 pounds per acre; but if the land is foul or weedy it is best to sow the seed in rows or drills about 15 to 18 inches apart, so that the young plants can be cultivated and kept free from weeds until well established in growth, when additional seed is sown between the rows.

To promote growth and insure a long continuance of the stand, it is necessary that the tops or stems be cut every time they come into flower, and they should not be allowed to produce any seed. The growth is frequently quite small the first spring, but the tops must be cut when coming into flower, even if they are only four to six inches in height. It will be found that repeated slippings with the mowing machine or scythe the first year it is planted is the cheapest and most satisfactory way to keep the crop from being smothered by weeds as well as to promote the growth. If the first cuttings are not heavy enough to cure for hay they may be left on the ground and will act as a mulch for the young plants. When large enough to cut for hay, it should be mown early in the morning, and as soon as the cutting is wilted it should be gathered into windrows or cocks to dry slowly. This slow curing method will prevent its becoming black or the leaves dropping from the stalks. Alfalfa can be grown where any other clover will succeed and in many places where clover will not succeed has brought about a great demand for seed.

DRY LAND ALFALFA

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, and is especially recommended for the hills and plateaux where irrigation is impossible. It comes from the highest, driest alfalfa sections, and is very superior seed. Write for price.

GRIMM ALFALFA

Of great value where the winters are severe and where common alfalfa freezes out. This variety has attracted considerable attention of recent years because of its peculiar branching root system and frost resistance, which makes it of great value in the sections where severe winters prevail. Its yielding power of forage or hay is no greater than that of common alfalfa, although the price of the seed is generally much higher. We handle only the best strain. Write for price.

ALSIKE or HYBRID CLOVER

Alsiike fills a place in the agricultural world of such vast magnitude that its possibilities are almost beyond comprehension, particularly to the farmer with large numbers of live stock.

In the West only the hardiest, vigorous, truest perennial clover should constitute the clover field or permanent pasture mixture. (Medium Clover is biennial.)

Alsiike is exceptionally leafy, frequently producing as much hay as Mammoth. It is admirably suited to the cool climate of the Northwest.

On many soils it produces good crops, on which Red Clover will not grow at all. Alsiike is the most hardy of all Clovers. It withstands the severest cold and does not winter-kill and it does not heave out of the ground with a frost. It is the only clover that will thrive on moist soil.

It grows about 2 to 3 feet high. The stems are thinner than those of Red Clover and the leaves are more numerous, making hay of a finer texture. The blossoms are pinkish white and appear from July to August. The feeding value of the hay equals that of Alfalfa.

Soil. This Clover prefers damp, moist, loam soil, but it will also grow fairly well on stiff clays. Here in the Northwest it is mostly grown on bottom lands and quite often mixed with Timothy. Both varieties seem to be well adapted for this soil and ripen at the same time.

Alsiike does well if sown under cover of grains and can be sown in spring as well as in fall. We would advise customers to sow Alsiike or some other Clover with every acre of small grain that is planted, as in the experiments conducted by the Minnesota Experiment Station, it has been shown that the sowing of Clover with small grain increases the yield of the grain by several bushels.

Alsiike should be cut for hay as soon as it in full bloom.

If wanted for seed, Alsiike should be cut when two-thirds of the heads are ripe. An average crop of Alsiike is about 4 bushels of seed per acre.

Alsiike is also one of the best honey producing plants that can be grown.

LADINO WHITE CLOVER

Also known as Giant White or Italian White, is a very large form of clover, usually making a growth of 8 to 12 inches as compared to the usual 3 or 4 inch height. It is a perennial. The stems lie flat on the ground and commonly root at the joints. It is not a deep rooted plant and consequently can be grown on rather shallow land where well supplied with humus and moisture. Ladino clover makes especially vigorous growth on the lower, medium heavy types of soils in western Oregon, under irrigation or natural moisture during growing season. Grown for hay, pasture and seed. Will carry twice as much stock per acre as blue grass. Three cuttings can ordinarily be made per year. Sow 4 to 6 lbs. per acre. Write for Price.

Melilotus Alba (White Blossom)—In recent years has attracted quite a little attention as a hay crop and soil improver and support as a pasture crop. It does not produce seed the first year, but usually an abundant crop of seed and hay the second year. It is harder than Alfalfa and more drouth-resistant and better for renovating the soil. Sweet Clover will thrive on most soils, either poor clay or sandy, but prefers a limestone soil. Where lime is deficient it should be added and good results will be obtained. Quite extensively grown on alkali soil. Sweet Clover is also recommended for bees. Write for prices.

WHITE DUTCH CLOVER

White Dutch Clover—(*Trifolium repens*.) This thrives in almost every soil and climate, succeeding equally well on shallow land and thin dry hillsides. Write for Price.

MEDIUM RED CLOVER

Anything we might say as to the great value of clover for pasture, for hay, as a soiling crop or as a fertilizer would not materially emphasize its merits to the majority of our Western farmers. It is a subject almost threadbare, from reiteration, that every farmer knows by heart.

The quality, however, is a vital issue that many farmers fail to appreciate. We claim that every circumstance and condition which bears on good crops is worthy of the most careful consideration.

Every farmer knows that what a man sows, that shall he reap, hence no man can expect to sow inferior seed and reap superior crops. It can't be done.

Experience has shown that seed grown under systematic, intelligent selection year after year has a higher productive power and has greater constitutional vigor than ordinary seed. Such characteristics as vigor, productiveness, uniformity, plumpness, is surely transmitted to individual plants of the resultant crop, as any desirable trait would be, in live stock, for instance.

Medium Red Clover is by far the most important Clover for our country. It lives two years; grows about two feet high; makes two crops a year, yielding about three tons of cured hay per acre. Clover hay is very nutritious, stock fed on it requiring less grain. All animals thrive if pastured on clover, particularly cattle, sheep and pigs. For soiling crops it is much used and is very valuable for green manuring, adding humus and nitrogen to the soil and thereby providing rich food for the crops which follow, and saving the cost of fertilizers of the expenses of using farm manure. It does well on a great variety of soils and it thrives most luxuriantly on strong well drained loams. In the northern states Red Clover is mostly sown in the spring, as early as possible. Write for Price.

BROMUS INERMIS

(Awnless Brome Grass)

Bromus Inermis—(Awnless Brome Grass.) This is a native of the Russian Steppes and thus is suited to a cold climate and dry soil. It is strongly recommended. It is good for pasture, and in some places for meadow—where the conditions are favorable. Brome Grass makes a dense growth of leaves which start down close to the ground. Animals like it well for pasture. Sheep and cattle like it the best of any grass.

Brome Grass thickens up rapidly by underground roots or stems. A thin stand thus improves quickly. It forms a dense sod six to eight inches thick, thus binding the soil together and preventing it from being wind blown. It is one of the deepest rooted of cultivated grasses. The stems grow erect, attaining a height of four feet or more.

It is drought defying, frost resisting. Yields enormous crops of splendid hay. It adapts itself to almost every condition of soil and climate and to any use to which grass may be put, equaling in quality and rivaling in yield almost any other grass. The roots push through the soil and form fresh plants on every side. It starts from two to three weeks earlier in the spring than native prairie grass and it keeps green in the autumn longer than any of the useful grasses grown in the West. No amount of cold seems to be able to kill it. It bears up well under hot summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep of course, for one or two weeks in the early spring. It is an abundant producer of leaves and is much relished as pasture and hay. It is about equally nutritious with Timothy. Write for Price.

GRASS SEEDS

All of these articles are governed in value by regular market quotations, and their values are subject to frequent changes, quite as much so as grain; and for this reason it is impossible for me to quote prices here which will hold good for the season. But would be pleased to give quotations on any seeds you may need.

Timothy—(Phleum pratense)—Of the easiest culture, and with us is usually sown in connection with winter grain in the fall, to which a seeding of clover is added early in the spring. 20 to 30 lbs. to the acre.

Red Top Grass—(Agrostis vulgaris)—It is a most valuable variety to sow with timothy and clover to form a close sward for pasturage. Sown alone, 10 lbs. per acre. Red Top is particularly valuable on land too wet for timothy, and will even thrive on land too wet for cultivation. A broadcast seeding over the unplowed area will usually establish the grass. Lb. 50c.

Orchard Grass—(Dactylis glomerata)—This is one of the most desirable pasture grasses for stock and also for producing large crops of hay. It succeeds well in quite shady places, hence the name of Orchard Grass. 25 to 30 lbs. to the acre.

Kentucky Blue Grass—(Poa pratensis)—As is well known, this is the grass for which the State of Kentucky is famous. Although it is preeminently a pasture grass, it is frequently used in making lawns. When Kentucky Blue Grass is used for lawn purposes, the seed is generally sown at the rate of 30 to 40 lbs. to the acre. If White Dutch Clover is desired, this seed should be added at the rate of about ½ pound to every 15 pounds of grass seed.

Rough Stalked Meadow Grass (Poa Trivialis)—A grass which deserves much greater popularity and should be better known as it is an ideal shade grass in the Northern half of the United States if it can have enough moisture. This grass is a perennial closely related to Kentucky Blue Grass but somewhat finer and softer. It has a splendid apple-green color and is a creeper. Sow in Fall or Spring, at rate of 1 lb. to every 300 square feet.

Canadian Blue Grass—(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.

Italian Rye—(Lolium italicum)—A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures (will last from two to six years). 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.

Crested Dog Tail—(Cynodorus cristatus)—A valuable addition for lawn grasses which require close cutting and an adaptability to resist tramping, as in golf links, etc.; about 21 pounds to the bushel. Write for price.

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.

Meadow Foxtail (Alopecurus Pratensis)—Every permanent pasture mixture should include some of this grass; particularly good for moist pastures. Does not reach maturity for 2 or 3 years and should be sown with other grasses. Sow in Fall or Spring. (7 lbs. to bushel.)

Hard Fescue (Festuca Duriuscula)—This grass does well in sandy pastures. Is a slender and very tufted perennial, a dwarf form of Sheep's Fescue. Sow in Fall or Spring, 30 to 50 lbs. per acre.

English Rye Grass—(Lolium perenne)—A most valuable grass for both pasture and meadows. It thrives in a cool and moist climate, adapting itself to a great many different kinds of soil. A strong and vigorous grower, curing into a fine hay of sweet flavor. Much relished by cattle and horses.

Mesquite—(Notholcus 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. Write for prices.

Wood Meadow Grass—(Poa nemoralis)—In the Northern and Middle States this is the best of all lawn grasses for deep shade. Very hardy and a perennial. Its creeping roots establish a lasting, even and deep green turf. On dry rich soil it makes good pasturage and hay, but is usually too expensive to sow. Sow in spring, 30 to 35 lbs. per acre. (14 lbs. to the bushel.) Price, lb. \$1.10; 10 lbs. \$9.00. Write for price in quantity.

FIELD SEEDS

All of these articles are governed in value by regular market quotations, and their values are subject to frequent changes, quite as much so as grain; and for this reason it is impossible for me to quote prices here which will hold good for the season. But would be pleased to give quotations on any seeds you may need.

RAPE

Dwarf Essex for Sowing—This is by far the best variety of Rape for forage. It is very valuable not only for green feeding purposes, but is of importance to the fruit grower as a cover-crop, and it affords excellent pasturage for hogs and sheep late in the season. The plant of Dwarf Essex resembles at first the Ruta Baga, but the tops become very large and leafy.

Dwarf Essex thrives best in cool weather. Ground should be prepared same as for turnips. Sow in June or July, with a turnip drill, in rows two and one-half feet apart, at the rate of two and one-half pounds of seed per acre. It is sometimes sown with spring grain, to provide fall pasture after the grain is cut; also sown at the last cultivation of corn. It may be sown broadcast, either with other fall forage crops or by itself, using from one to five pounds of seed per acre. **Lb., 25c, postpaid.** For larger quantities, inquire for prices.

SPELTZ OR EMMER

Emmer (Triticum Dicoccum)—Often Mistakenly Listed as Speltz—Similar to barley in growth, but produces two grains in a spikelet. A comparatively new and profitable crop, yielding 50 to 100 bushels of grain, or four to six tons of 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. We offer choice, re-cleaned seed of the true variety.

WE DO NOT SELL WHEAT OR BARLEY FOR SEED SUDAN GRASS

(*Andropogon sorghum sudanensis*) 8-10 lbs. plants an acre.

Sudan grass is an early maturing annual sorghum plant. It is not particular about soil, but requires warm weather and must not be planted in the Northwest until the weather is well settled. Under favorable conditions only 90 to 100 days are required to mature a hay crop. Thick seeding is advisable, otherwise the crop grows too rank and coarse as the plants stool heavily and grow ten feet high if given sufficient room. Important as a fodder plant east of the mountains, where it seems to thrive on lands that are quite alkaline. It also endures excessive moisture and withstands extreme drought, but on the coast it seldom proves to be a valuable crop.

Gray Winter Oats

Gray Winter Oats—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. Write for price.

Millets

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

Prices 10 lbs., \$1.50, postpaid. Write for quantity prices.

German or Golden—

New Siberian—

Hungarian—

Japanese Millet—Improperly called "Billion Dollar Grass." Entirely distinct from all other Millets. It grows from 6 to 9 feet high, stands up remarkably and yields enormous crops. When cured it makes good hay and in quality is superior to corn fodder. It is relished by all kinds of stock. It may be sown broadcast at the rate of 15 lbs. per acre, but it is better to sow in drills 12 to 18 inches apart, using 10 to 12 lbs. to the acre. Cultivate until the plant is 18 inches high, when its rapid growth will smother all weeds. It does best on low moist ground. **20c per lb., postpaid. Write for price in quantity.**

We also carry the following. If interested write for price.

**CANADIAN FIELD PEAS and
CHEAT SEED**

SEED RYE

BUCKWHEAT

STIMUGERM
LEGUME INOCULATION

**Cut Down Your Fertilizer Bills
Get Your Nitrogen from the Air**

Nitrogen is the most expensive ingredient in the fertilizers you buy, although it is plentiful in the air. When legume crops are inoculated with STIMUGERM this nitrogen is stored in nodules on the roots.

ORDER BY NUMBER

No. 1. For Red, Mammoth, Alsike, Crimson and White Clovers.

No. 2. For Alfalfa, Sweet and Bur Clovers.

Price Nos. 1 and 2— $\frac{1}{4}$ bus. size 40 cts; $\frac{1}{2}$ bus. size 65 cts; 1 bus. size \$1.00; $2\frac{1}{2}$ bus. size \$2.25; 10 bus. size \$8.00.

White Seed Oats

White Seed Oats—We always try to have a selected re-cleaned stock of No. 1 White Seed Oats, which we can supply at market prices. Write for samples and prices on the quantity you require.

HUNGARIAN VETCH

Hungarian Vetch is undoubtedly destined to become a very important annual leguminous crop for this state, especially the western part.

Aphis Resistance—Its aphis resistance is probably the largest single factor toward making it a generally grown crop in Western Oregon. During years when aphids, practically destroyed many other farm crops this vetch was injured comparatively little and produced practically normal crops of forage and seed.

Hungarian Vetch is seldom attacked by diseases or insect pests. At no time since the crop has been grown here has any loss occurred due to disease or insects.

Experience has shown that Hungarian is a heavier yielder in both hay and seed than other vetches grown here under similar conditions. Write for price.

Spring Vetches, or Tares—(*Vicia Sativa*).—Growing into favor more and more each year for plowing under. They have the advantage over peas in that they make a greater growth of vine, while as the seed is much smaller in proportion to peas, a smaller quantity is required to plant an acre. They are valuable also as a green food for milch cows. Sow 50 pounds to the acre. Prices on application.

Hairy Vetch—Also called Winter Vetch, is a biennial and is sown in the fall like any winter grain. Because the seed is much smaller than gray vetch, less pounds of seed are required per acre, thirty to forty pounds per acre with grain is sufficient to insure a good crop. Hairy Vetch is used extensively for cover crops in the orchard districts of Oregon and Washington. Write for price.

Increases the yield and improves the quality of the crop on which it is used.

STIMUGERM
Legume Inoculation
It adds to the nitrogen supply in your soil—nitrogen is the most expensive ingredient in the fertilizers you buy.

Its use gives quicker growth and earlier maturity. It increases the permanent value of your farm.

No. 3. For Vetch, Canada Field Peas, Garden Peas and Sweet Peas.

No. 7. For Cow Peas, Peanuts, Velvet Beans and Lima Beans.

No. 8. For Garden Beans and Navy Beans.

No. 9. For Soy or Soja Beans.

Price Nos. 3, 7, 8 and 9— $\frac{1}{4}$ bus. size 40 cts; 1 bus. size 65 cts.; 5 bus. size \$2.25.

THE NEVER FAIL GOPHER GUN

Complete instructions with each gun

Load gun with a 38 S. & W. Blank cartridge as sold by dealers everywhere and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole, setting off the gun. The concussion kills them every time. For Moles dig down to main run and set same way.

It is easy to kill gophers and moles with the Never-Fail Gopher Gun.

It will rid your place of gophers, moles, rats, squirrels and all burrowing pests.

It will save you many dollars' worth of damage caused by these underground raiders.

Avoids the cruelty of other methods because it kills instantly, it saves time because of its effectiveness and at a cost of only about one and one-half cent per rodent. Price \$1.75, Postpaid.

**REDDICK
MOLE TRAP**

No Mole Can Pass
Under It and Live

These traps are
strong and durable
and worth the
price to anyone
troubled by moles.

Price \$1.00 each,
Postpaid

CINCH GOPHER TRAP

Fits the hole, a sure killer, and the most satisfactory trap.
Weight, 1 pound. Price, each, 75c, postpaid.

Cro-Tox

BIRD AND RODENT REPELLENT

will protect your corn during the growing season by ridding your fields of crows, pheasants, blackbirds, and other corn pullers—from squirrels, woodchucks, moles, gophers, wire-worms, grub-worms, etc. They positively will not touch corn that has been treated with Cro-Tox.

Cro-Tox is NON-POISONOUS

It does not kill birds or animals but is repellent to them—they will not go near corn that has been treated with Cro-Tox. It cannot injure seed in any manner. It will not clog any planter. Cro-Tox is absolutely guaranteed to do all that is claimed for it, or your money will be refunded.

LARGE CAN, Treats 2 bushels of seed corn—\$1.50.

SMALL CAN, Treats 1 bushel of seed corn—\$1.00.

**OUT OF SIGHT
MOLE TRAP**

The Trap That Holds
**CAN'T PULL OUT
CAN'T TWIST OUT
CAN'T GNAW
FREE**

The Best Mole Trap
Made

\$1.25, Postpaid

**THE OFFICIAL
RAT TRAP**

The government selected this trap from among thousands of models submitted. Spring releases with either upward or downward pressure—Rats Nibble Upward. The "Official" always gets them.

Official Rat Trap, weight, 1 lb. Each 20c, postpaid.
Official Mouse Trap, weight, 4 ozs. Each, 5c, postpaid.

GAS BALLS—FOR GOPHERS OR MOLES

For the extermination of Ground Squirrels, Gophers, Prairie Dogs and Moles.

SAFE—SURE—ECONOMICAL

Will not explode. Do not deteriorate. No danger to Live Stock, Domestic Fowls or Wild Game.

Hold the exterminator in mouth of squirrel's burrow, light the sharp end with torch or match, after the ball is ignited and burning freely roll it as far as possible into the burrow. Cover the hole with clod of dirt, then with enough fine dirt to seal tightly so that none of the gas fumes can escape. Throw no fine dirt on the burning ball. Each 5c; doz. 40c, postpaid.

Will sow Timothy, Clover, Wheat, Oats, Rye, Buckwheat, Hungarian, Red Top, Millet and all other grains and seeds perfectly even, and any desired amount to the acre, and from 40 to 60 acres a day. Price, \$2.25.

THE HORN SEED SOWER

Will sow 40 to 60 acres per day of alfalfa, clover, timothy, millet, etc. Spread seed evenly from 30 to 40 feet. Price, postpaid, \$1.00.

THE HORN

THE ECONOMICAL SEEDER

A handy little tool which will be found useful and economical in sowing all fine seeds. It is made of zinc and measures $4\frac{1}{4}$ inches over all.

The instrument is small enough to be held in the palm of the hand and the amount of seed is controlled by a simple action of the thumb, operating a slide regulating the flow of the seed. It has a capacity of one ounce of aster seed and more or less of other seed according to size. It is especially recommended for sowing finer flower seeds, such as begonia, calceolaria, cineraria by florists and all the smaller vegetable and flower seeds in the garden. Each 50c. postpaid.

FASTEST OF ALL GRASS SEEDERS

**Thompson's
Seeder No. 11
\$15.50 Each**

For Broadcasting Grass, for sowing Red Top, Clover, Timothy and all Mixed Seeds. Light, strong and simple.

**THE
EUREKA
POTATO
PLANTER**

Price \$1.75

**THE PINGREE
POTATO PLANTER
\$1.25 each**

THE PRINDLE ASPARAGUS PICKER (Patent Applied For)

At last an Asparagus Picker that takes all the back breaking work out of the job of harvesting crops. It enables you to stand erect while picking, no stooping or bending. The Prindle Asparagus Picker can be used by any man, woman or child, for it is so simply constructed, as may be seen by the illustration. It will cut

the asparagus any depth under the ground down to four inches, by simply pushing the knife against the stock. A longer knife for greater depth will be furnished on request at a slight additional charge.

It picks the asparagus up, at the same time cutting by means of two fingers just above the knife, which are operated by a wire on the handle and your thumb, which holds the asparagus. Simply swing picker over the basket and release the fingers.

The Prindle Picker is 46 inches over all with 40-inch round smooth handle and 6x $2\frac{1}{4}$ -inch tempered steel knife, notched on the end purposely to cut the asparagus to best advantage. There are two 7-inch spring steel fingers or prongs just above the knife covered with rubber tubing controlled by steel rod nearly full length of handle. The mechanism of this tool is so constructed that there is nothing to get out of order.

Price \$2.00

McKINNEY PRUNERS

Latest, strongest and best hand pruner made. Very powerful and easy to operate.

The only perfect cutting pruner on the market. No. 0 is a hand pruner having two cutting blades, cuts limbs $\frac{5}{8}$ -in. in diameter. No. 1 cuts 1 in. in diameter.

	Weight	Length	Price
No. 0	1 lb.	15 in.	\$3.90
No. 1	$2\frac{1}{4}$ lbs.	23 in.	4.00

PRUNING SHEARS

No. 30
Price \$2.50 each

No. 20
Price \$2.00 each

No. 5406
Price \$2.00 each

No. 800—8 inch.....\$2.25
No. 9 —9 inch..... 2.50

No. 660\$2.00
Special 6-in. blade.

PRUNING KNIFE

Handy grip ebony handle, curved, polished, tool steel blade, nickel-plated bolster.

No. 9215—Price each \$1.00.

BUDDING KNIFE

Has pointed blade and broad bone opening spoon.

No. 6427—Price each \$1.50.

PRUNING SHEAR

Full polished Swiss Pattern shear, crucible steel blade, ratchet, regulated adjusting nut; 9 inches long.

No. 202—Price each \$1.25.

ROSE SHEAR

Full nickel plated, 7 inches long, forged from high grade steel. Its fine finish and handy size makes it very desirable.

No. 7328—Price each \$1.25.

BUDDING KNIFE

A well-shaped good sized knife with special blade to open cleft for inserting buds.

No. 436—Price each \$1.25.

PRUNING SHEAR

Heavy 9-inch shear with volute spring, high grade polished steel blade, attractive finish. A well made article.

No. V12—Price each \$1.00

THINNING SHEAR

Mill finish, used for thinning fruit and for picking grapes, etc. 7 inches long.

No. 101—Price each 50c.

BUDDING KNIFE

Stationary blade.

Price, 60c each

No. 830 Weeder—50c each

No. 160 Grasswip—\$1.25 each

Village Blacksmith "Grasnip." A very practical shear for cutting grass, light vines, etc.; 6-inch steel blades, malleable handles.

Red Handles, best finish, \$1.25, post-paid.

Green Handles, med. finish, \$1.00, post-paid.

GRASS

No. 2
Price 75c each

No. 1 Big Indian
Price \$1.00 each

HOOKS

No. 3
Price 75c each

The Goodwin Grass Shears

(Ball Bearing)

The new Goodwin Grass Shear can be used for hours without tiring or injuring the hands. No more blisters or skinned knuckles—the design of the Goodwin eliminates all the faults of the old type shears. This is just one of the reasons why you'll find it easy to sell Goodwin's to every customer who is using the old-fashioned shears. The "Goodwin" particularly appeals to women because it is so easy and pleasant to use.

Price—No. 10, \$1.75; No. 20, \$1.25, postpaid.

No. 55—Brass Yerdon's Bands, 1/2 or 3/4-inch. Postpaid, each 5c; doz. \$0.50

ADJUSTABLE NOZZLE
Each, 75c

FEENEY DUST GUN

The dust cloud from a Model B Duster covers every surface of the thing that is to be dusted—top, sides, underside and all—hunts every crack and crevice—nothing escapes being treated—it does the job completely. Price \$1.25.

GARDEN HOSE Butzer's Non-Kinkable

A brand of hose, manufactured especially for greenhouse use. The inner tube is made of the best quality rubber and is very strong; the jacket of canvas or duck is mixed in such a way with the outer cover that it is extremely pliable and will not kink or crack.

Comes in reels of 500 feet, order exact number of feet you require. We can cut in any length.

Price, 1/2-in., 12c per ft.; 3/4-in., 15c per ft. Couplings free in 10-ft. lengths and over.

PERFECT CLINCHING COUPLER

1/2 or 3/4 inch

Per pair

35c, postpaid

No. 50
No. 50—Nozzle and Hose Couplings.
Price\$0.35

No. 40—Nozzle and Hose Stock.
Coupling\$0.40
Price

No. 56
No. 56, Couplings, 1/2 or 3/4-inch, Postpaid\$0.35

JAPANESE BAMBOO BROOM RAKE

Each, 50c

Slip it in the Hose and Hammer Down—that's all.

It leaves the Hose as Smooth and Strong and Tight as a New Hose.

Made of seamless brass tubes with clamping fingers of brass or steel as desired, in 1/2, 3/4 and 1 inch sizes.

PERFECT CLINCHING HOSE MENDER—The best mender made.

1/2 or 3/4 inch, 15c each, 2 for 25c, postpaid

6 foot	\$1.65
8 foot	1.85
10 foot	2.00
12 foot	2.15

Cannot be mailed

No. 212—Solid Steel Trowel. 50c, postpaid.

GARDEN TROWEL No. 4

One piece pressed steel. Handsomely finished in black baked enamel. Length of blade 6 inches. Ground and polished points. Price 25c each, postpaid.

No. 2120—SOCKET GARDEN TROWEL
Price, 50c each, postpaid

No. 217—TRANSPLANTING TROWEL
25c, postpaid

No. F-30—SPADING FORK

A very handy tool, forged 3 tine, polished and green enameled. Length 11 inches. Hardwood handle. No. F30—Price each, 50c.

MOE'S GARDEN WEEDER

One piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers, and is one of the most useful and handiest garden tools made. Ground and polished points. Price, 25c each, postpaid.

**LANG'S
HAND
WEEDER**

**HANDIEST
TOOL**

Price, 25c each

IDEAL HAND WEEDER AND SCRAPER

Price, 25c each

StimUplant
Makes a
Wonder Garden

10 Tablets.....	15c
30 Tablets.....	25c
100 Tablets.....	75c
1000 Tablets.....	\$3.50

**AMERICAN BEAUTY
GARDEN SET**

All handles are hand-turned and hand-finished, extra heavy. Tools are finished in red enamel; these are practical tools and are put up each set in a strong box. The finest floral set made. Price, per set. \$1.10; if by mail, add 20c for postage.

No. V-12—PRUNING SHEAR
\$1.00, postpaid

No. 2—PRUNING SAW, 18-in., \$1.75 each, postpaid
No. 3—PRUNING SAW, 16-in., \$1.50 each, postpaid

MAYNARD TROWEL

6-inch blade and shank, solid steel socket. The best trowel made. Price \$1.00, postpaid.

TURF EDGER
American. Each \$1.25

**WOOD HANDLE
DIBBLE**
\$1.00 each, Postpaid

HOSE WASHERS
½-inch, rubber
Doz. 10c

D HANDLE DIBBLE
\$1.00 each, postpaid

NEW DISCOVERY—DUST IT!

In Flower Gardens. CARBOLA is an extremely effective remedy for fighting bugs and worms on rose bushes, chrysanthemums, flowers, shrubbery and plants of all kinds. Dusting with CARBOLA insures large blooms free from insects. Nowhere are the beneficial results of CARBOLA more quickly apparent than in the flower garden.

CARBOLA is also recommended for painting tree trunks of fruit and ornamental trees to keep off bugs and worms.

In Vegetable Gardens. CARBOLA has been found very effective for ridding plants and vegetables of bugs and worms. It is especially recommended for the cabbage worm, squash bug, cucumber worm, aphid fly, potato bug and other destructive insects that infest vegetables and berry and fruit bearing trees. Dust the CARBOLA early in the morning while the dew is on.

LAWN SPRINKLERS

RAINBOW BRASS LAWN SPRINKLER

Low or high pressure. World's best rain insurance. Does not stick or rust. The water descends in small particles like mist and rain combined over an area of 40 to 50 feet, watering every inch of ground. Instantly set in motion with low water pressure. The Rainbow Sprinkler is supported on a brass sled, which may be easily drawn over the lawn. The Rainbow Lawn Sprinkler works perfectly from artesian well or tank pressure. Each \$2.00, postpaid.

THE "FOUNTAIN" FAMILY Distinguished by the "MIST-LIKE SPRAY"

THE "ORIGINAL" FOUNTAIN No. 1
Known the Country Over
Price \$1.00, Postpaid

ADJUSTABLE RAIN-DROP LAWN SPRINKLER

Adjustable~
**RAIN DROP
SPRINKLER**

The only lawn sprinkler that serves every purpose. The spray top can be removed and attached to hose for spraying flowers and bushes.

IT MAKES A FINE ROSE SPRAY

Or it can be used for washing car and will not damage the finish.

The spray top can be replaced with a hose nozzle where you want to water narrow strips, gardens or distant points, or where the water pressure is too low to obtain good results from the regular spray top. Price \$2.00 each.

FAN SPRAY SPRINKLER

A doubtful looking sprinkler but a dandy. Throws a fan-shaped mist fourteen feet in front only. Just the sprinkler for new flower beds, lawns, etc. Set it on the walk or next to the house and throw the water only where it is wanted. 60c, postpaid.

Fan Spray Sprinkler

SAUCER SPRAY SPRINKLER

A wonderful little sprinkler. It waters a circle thirty to forty feet in diameter with a fine gentle spray. Also has an additional cap perforated to water half a circle. It is so simple there is nothing to get out of order—nothing to wear out. It is light and easy to handle and can be taken apart and cleaned instantly. Efficient, durable and low priced. Made of iron with copper caps. 75c each.

No. 19

No. 10
Stationary
Stick Stand
Sprinkler

NO HOLES
TO STOP UP

SPRAYS
30 to 35 Feet

PRICE,
\$1.00
Postpaid

No. 19 LAWN
SPRINKLER

Non-corrosive; won't clog; with clean-out brass plug. Equal distribution of water over a large area. Base 8 inches. Can be pulled about the lawn without tipping. Price \$1.00 each.

Blake No. 2.—Galvanized iron; tapped with $\frac{3}{4}$ inch iron pipe threads; used extensively for irrigating purposes where necessary to connect sprinkler on $\frac{3}{4}$ inch iron pipe. Price 50c.

A regular water flirter. runs easy. Weight 2 lbs. Price \$1.25.

LABELS

TREE LABELS

Copper Wired and Painted

3 1/2 inch—35c per 100, \$2.90 per 1000

POT LABELS

6 inch—40c per 100, \$3.00 per 1000

5 inch—35c per 100, 2.50 per 1000

8 inch—85c per 100, 7.50 per 1000

GARDEN LABELS

10 inch—\$1.00 per 100, \$9.00 per 1000

12 inch—1.50 per 100, 12.50 per 1000

STAKES—JAPANESE BAMBOO Green Painted

	100	1000		100	1000
1 1/2 ft.....	\$0.75	\$5.25	3 ft.....	\$1.35	\$9.00
2 ft.....	.95	6.25	3 1/2 ft.....	1.40	9.50
2 1/2 ft.....	1.10	7.50	4 ft.....	1.50	10.50
Japanese Bamboo, not painted, 6 ft.				2.00	14.50

NEPONSET PAPER POTS

Splendid for handling and shipping plants. Unbreakable, light and economical.

Size—	Weight	Price—	
2 1/2 in.	1,000	100	1,000
3 in.	18 lbs.	\$0.70	\$ 5.00
3 in.	28 lbs.	.95	7.50
4 in.	50 lbs.	1.50	10.75

JAPANESE TUBS

These tubs have large hoops, and are imported from Japan. Small size, 13 inches high, 14 inches diameter at top. Price 75c each.

Postage extra

PEAT PLANTING POTS

Planting Pots are made entirely of German peat moss. When once well soaked with water they retain moisture for a long time, thus removing danger of the plants drying out.

Seeds started in Planting Pots rapidly develop strong plants that produce large crops, in some cases as much as four or five weeks earlier than plants produced by other methods.

Made in three sizes—

No. 1—2-in. with 1-in. hole.....	\$2.00 per 100
No. 2—2 1/2-in. with 1 1/2-in. hole.....	\$3.00 per 100
No. 3—3-in. with 2-in. hole.....	\$4.00 per 100

PEAT MOSS
NATURE SOIL IMPROVER

for
Vegetable
Growers
Horti-
culturists
Home
Gardens
Nurserymen
Florists

A few of the many purposes for which it is used:

Fertilizer Carrier
Mulching
Cold Frames
Lawns
Improving Soils
Propagating
Cuttings
Landscape Work
Benches (Greenhouse)
Golf Courses
Packing
Storing Bulbs
Potting
Layering
Seed Beds

Peat Moss is packed in bales of standard size and bulk, with minimum moisture content. The material in a bale will cover 340 square feet one inch deep.

In making new lawns, apply from three to six inches of Peat Moss and work it into the soil. An even germination of the grass seed will be obtained and a thick turf will soon develop.

Price per Bale, \$3.00

F. O. B. Portland

Tree Tanglefoot

A sticky substance that may be applied to the bark of trees to protect them from all climbing insects. One application is good for three or four months and it will prevent ants from entering tree tops. Lb. can. 60c; 5 lbs. \$2.75, f. o. b. Portland. May be mailed.

GRAFTING WAX

A high-grade preparation. Easy to handle. For pruning or grafting or for covering fresh cuts. 1/4 lb. 15c; 1/2 lb. 30c; lb. 50c.

Naphthalene

For Use in Treating Soil for Insect Pests

Used by truck gardeners, bulb growers and for field crops to drive away grubs, wire worms, slugs, centipedes, aphids, etc. Safest, most powerful insect repellent that can be used in quantities at low price. In granulated form, with strong odor like moth balls. Has been used in Europe for years. Drives off caterpillars, stupefies insects. Use it mixed in the soil according to directions. Send for full information.

Prices: 1 lb. can 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.25; 50 lbs. \$4.00; 100 lbs. \$7.50; F. O. P. Portland.

Raffia

Natural color, for nursery and garden work, also used for making baskets. 40c per lb. Postpaid

CEL-O-GLASS

Here is a most useful and durable material, which is recommended for use in place of glass—anywhere. CEL-O-GLASS is unbreakable; it is hailproof, rainproof, heatproof, coldproof, rust-

proof and very light in weight. It is ideal for cold frames, hotbed sash, garage and barn doors and windows—any place where you need light and protection from the weather. Easy to use—simply tack it up; no glazing, no trouble, no breakage. CEL-O-GLASS is shipped in rolls 3 feet wide and 100 feet long. We cut in any length. Price 14c per square foot.

ADCO

ARTIFICIAL MANURE

(Patented in the United States and Abroad)

ADCO is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed-seeds, etc. The process is perfectly simple and not at all laborious.

GARDENERS can now have plenty of manure at low cost and little trouble.

FARMERS, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor of maintaining live-stock.

PRICE

ADCO, in 150-lb. bags, each	\$11.00
(Enough for a heap 10 ft. x 10 ft. x 6 ft., making about three tons of manure)	
ADCO, in 25-lb. bags, each	\$2.35
(Enough for 12 wheelbarrow loads of garden waste, making one-half ton of manure)

"43" FOR THE TREE (Plastic) (A Scientific Cavity Filler for Trees)

Keep your trees beautiful and productive. For a decayed trunk or limb, fill the wound easily and quickly with this scientific, healing plastic compound. Contains about 18 ingredients especially used to combat disease, protect and waterproof the wound, and aid the growth of the tree. Comes ready for use. Anyone can most economically apply "43" with good results.

Sets firmly yet pliable, and helps the tree heal well around the injury allowing for natural growth. Does not sag away from crotch or cavity.

Keep a package handy to treat your trees, and keep your trees beautiful and useful. Color, black.

1-lb. Can (Pint Can)	\$.65
2½-lb. Can (Quart Can)	 1.55
5-lb. Can (½-Gal. Can)	 2.95
10-lb. Can (Gal. Can)	 5.75
*50-lb. Can	 23.00
*100-lb. Can	 38.00

"43" FOR THE TREE (Liquid)

(An Antiseptic, Pruning Compound)

A penetrating speedy brush application for coating over, sawed-off limbs, and surface bruises. Excellent for nursery men, fruit growers, home-owners, tree-surgeons, etc. A heavy liquid that forms an air-tight coating over the wound, and makes the healing of the cut easy for nature.

Contains practically the same antiseptic oils approved for expert tree surgery work as are used in "43" (Plastic). Antiseptic odor prevents small animals from peeling bark off young fruit trees. An economical tree dressing per tree coated. Color, black.

1 Pint Can	\$.65	1 Gallon Can	 5.75
1 Quart Can	 1.55	*5 Gallon Can	 23.00
½ Gallon Can	 2.95	*10 Gallon Can	 38.00

*Not carried in stock.

A. B. C. PLANT PROTECTORS

SPECIAL NON-CURLING TAR FELT PADS

PROTECTS
FROM
CABBAGE
ROOT
MAGGOT

No maggot fly will be able to lay eggs around the stem of your young plants if you use A B C Protector. You won't lose 10 to 30 and 40 per cent of the planting, by the stems being eaten away. Last year A B C Protectors were used in all parts of the United States and Canada, many customers reporting that A B C's produced anywhere from 90 to 100 per cent crops.

We believe that this is the only protector on the market today successfully doing the work claimed for it. It lays flat on the ground, will not curl up on the edges, is the easiest protector applied, and will not dry up quickly. Prices as follows, postpaid: Per doz., 10c; per 50, 30c; per 100, 40c; per 500, \$1.50; per 1000, \$3.00.

SUN-DIALS

GAZING GLOBES

- No. 10 Sun-dial, Each\$5.00
 No. 11 Sun-Dial, Each 6.00
 No. 12 Sun-Dial, Each 7.50

ATLACIDE

NON-POISONOUS

WEED KILLER

PATENTED

DUSTER

to be killed. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters.

- 1-lb. DUSTER 50c Each
 (kills 100 sq. feet of weeds)
 3½-lb. DUSTER\$1.50 Each
 (kills 350 sq. feet of weeds)
 Bulk sizes for refilling duster or for making solution
 50-lb. Drum 20c lb.
 (kills 5,000 sq. feet of weeds)
 100-lb. Drum 19c lb.
 (kills 10,000 sq. feet weeds)
 200-lb. Drum 18c lb.
 (kills 20,000 sq. feet weeds)

Atlacide Non Poisonous Weed Killer Duster exterminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., Without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses

- 7" Gazing Globe without pedestal \$ 4.00
 8" Gazing Globe without pedestal 6.40
 10" Gazing Globe without pedestal 9.00
 12" Gazing Globe without pedestal 13.00
 14" Gazing Globe without pedestal 18.00

END-O-PEST

A meal that quickly destroys cutworms, sow bugs, earwigs, grasshoppers, snails and slugs.

Merely sprinkle END-O-PEST around and under planted vegetation. Insure them against destruction. Will not in any way destroy plants and rain does not destroy its value.

Look over your premises at once—note if any of these pests are present. If so, take steps immediately to destroy them for they quickly multiply, and once they become active they will soon overrun your grounds.

END-O-PEST is sold as follows:

- 1-lb. Packages\$.40
 3-lb. Packages75
 10-lb. Bags 2.25
 15-lb. Bags 3.00
 Cannot be mailed.

Protect Plants for Profit

Germaco Hotkaps

Prices: 1,000 lots, \$11.50; 5,000 lots, \$11.00 per M; 10,000 lots, \$10.75 per M; 250 Trial Package, including Garden Setter with Tamper, \$4.00; 100 Home Package, including Garden Setter with Tamper, \$2.50; Germaco Hotkap Steel Setter with Tamper, \$2.50; postage extra.

Weights: 1,000 package HOTKAPS, 26 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

THE "MISTY"

A general purpose Sprayer for farm, stable or garden uses. Handles fly-oils, bug poisons and disinfectants. Has large powerful pump. Lock sealed can. Made of heavy tin. Tank 4x4½-in. Length over all, 21 inches. Holds one quart.

No. 22, price each, postpaid.....60c
Gem, pint size.....50c

AUTO-SPRAY No. 26 IT SPRAYS CONTINUOUSLY

The Auto-Spray No. 26 is so designed that the pressure generated on the down stroke of the plunger allows this sprayer to produce a continuous mist-like spray. This is a decided advantage over ordinary atomizers, which are intermittent, in that spraying can be done more rapidly and with less exertion. This sprayer has a number of advantages which other Atomizers lack. Note the two nozzle caps yoked together to prevent loss, one straight and one angular.

The ball valve, which prevents this stored up compressed air from returning into the pump cylinder, is conveniently located in a brass valve seat, fastened stationary in the end of the pump cylinder, and readily cleaned or replaced. By removing the tank from this sprayer, the syphon tube can be easily and quickly cleaned.

Auto-Spray No. 26A, 1 quart all tin.....\$.85
Auto-Spray No. 26B, 1 quart tin pump, brass tank 1.25
Auto-Spray No. 26C, 1 quart all brass.....1.50

AUTO-SPRAY No. 26-AG

There are many reasons why a glass tank on a continuous atomizer is advantageous. It can be easily cleaned when a different type of solution is to be sprayed. The operator can always tell how much liquid is in the sprayer. A long felt demand for a continuous atomizer with a glass tank prompted us to build this sprayer. The jar on this sprayer has a standard Mason fruit jar thread. Additional jars are easily obtainable. This atomizer has all the mechanical advantages of the Auto-Spray No. 26-A, B and C with the added advantage of the glass tank.

We forecast the Auto-Spray No. 26-AG will eventually be the most popular continuous atomizer on the market. Capacity one quart. Price \$1.50.

AUTO-SPRAY No. 5

The Auto-Spray No. 5 is a double acting high pressure sprayer that can be used with any pail or bucket. It is generally acknowledged to be the most powerful pump of its type manufactured. Generates a pressure of over 200 pounds with remarkable ease. Throws a continuous spray on both the up and down stroke, and requires about one-half the labor of other pumps of this type. This pump is made of solid brass and is equipped with an extension strainer, and suction hose. This pump is equipped with extra nozzle caps to give both fine spray and long distance spray for spraying trees from the ground. \$4.50.

UTILITY No. 10-15 KNAPSACK SPRAYER

Is the most desirable style of sprayer for all general work ever put on the market. Just the right size for the average work requiring a sprayer.

Equipped with our Patented Utility Nozzle.

Tank capacity, 3½ gallons; size 7¼x20 inches. Made of heavy galvanized iron or brass. All seams sweated and riveted. Tested at 95 pounds. Tank equipped with Standard Hose Connection.

Pump Cylinder made of brass tubing with Bronze Ball Check Valve, which does not deteriorate like rubber. No twisting action on pump gasket.

No. 10, Galvanized, \$6
No. 15, Brass, \$9

Nozzle made of brass, can be adjusted to be operated at any desired distance. Shut-off is always at nozzle end; designed with large waterways and strainer to prevent clogging. Equipped with No. 65 Angle Nozzle unless otherwise ordered.

AUTO SPRAY No. 7

With Lever Bucket Handle Pump

The lever handle and large air chamber make this the most powerful bucket pump and the easiest one to operate. All working parts are solid brass with brass ball valves and patent agitator. Fitted with graduating nozzle to throw a fine or coarse spray or a solid stream. Weight, 8 lbs. Price, \$7.

BUCKET PUMP No. 95

All working parts of this pump that come in contact with spray solution are brass. By removing verbal disc a straight stream can be had for washing windows, automobiles, etc., in addition to general spray purposes. Price, \$4.50.

AUTO SPRAY No. 6

Double Acting Bucket Pump

A most powerful bucket pump, easily generates a pressure of 200 pounds. It is double acting, producing a continuous spray. Made of brass and is equipped with a brass suction strainer, as well as a strainer in the nozzle. The pump is equipped with a foot rest 16 inches high, enabling the operator to use almost any bucket or container. This is an advantage, as it does not necessitate the use of a special bucket. So constructed that it may be taken apart and re-assembled without the use of tools of any kind. Price \$5.00.

WHEELBARROW SPRAYER

Goes anywhere like a wheelbarrow, through narrow openings. For spray solutions, disinfectants or white-wash.

Equipped with extra long handle, giving powerful leverage, and large air chamber insuring continuous spray. Develops 150 to 200 lbs. pressure with minimum of effort. Made of best materials. All working parts of brass or bronze. Cart is strong, all steel and cross braced. Tank holds 12½ gals. Fully equipped with hose, nozzle, fittings, steel extension, etc.

No. 1721-F—Price \$25.00.

BUCKET SPRAYER No. 261

A very effective sprayer for home and garden use. This sprayer is double acting, discharging spray on both up and down strokes, giving continuous spray. Constructed with large brass air chamber, which cushions force of solution pumped and maintains uniform pressure. Equipped complete with hose, discs for fine or coarse spray and extra solid stream cap. For all spraying purposes.

No. 261.....Price \$5.00

BUCKET SPRAYER No. 231

A single stroke sprayer, especially popular. All working parts are brass not subject to corrosion. Solid bronze ball valves, malleable iron foot rest. Made of tested materials. Develops strong pressure, easy working, long lasting.

Completely equipped with hose, discs for fine or coarse spray and extra solid stream cap. Suitable for few fruit trees, vegetable and flower gardens, disinfectants and white-wash.

No. 231.....Price \$5.00

BOTTLE SPRAYER

Made entirely of brass, nickel plated and not affected by any of the spray solutions. Fits any ordinary bottle and is operated with great ease. Nozzle is adjustable for very fine or coarse spray. Very useful spraying for disinfectants in schools, hospitals, etc., also for spraying plants and a great variety of purposes.

No. 375—Bottle Sprayer

Each.....\$1.25

ONE POINT VERMOREL NOZZLE

All brass, equipped with five extra steel discs which may be easily renewed. The needle plunger permits easy cleaning of the nozzle. This is an excellent nozzle for use in whitewashing. Each 80c.

"GRUN" SULPHUR SPRAYER

For dry dusting. Grinds the cloddiest sulphur to the finest powder while operating sprayer, no stops, good steady flow. Grinding devices so arranged they can be easily removed through side opening for cleaning. Easy to operate, simple construction, no useless screws, strong and durable.

No. 1. Capacity 22 lbs., net wt. 15 lbs., \$18.00; f. o. b. Portland.

No. 2. Capacity 13½ lbs., net wt. 13 lbs., \$17.00; f. o. b. Portland.

No. 80 Nozzle
75c

No. 75 Nozzle
75c

REPAIR PARTS FOR COMPRESSED AIR SPRAYERS Nos. 10 and 15

No. 1—	Galvanized Tank; only for No. 10 Sprayer	\$4.65
K- 2—	Brass Tank, only for No. 15 Sprayer	7.00
K- 24—	Galvanized Tank; only for No. 20 Sprayer	4.35
K- 25—	Brass Tank; only for No. 5 Sprayer	6.70
K- 9—	Pump complete, with filler cap for Nos. 10 and 16 Sprayer	3.00
K- 28—	Pump complete, with filler cap for Nos. 5 and 20 Sprayer	2.30
K- 4—	Pump Handle for Nos. 10 and 15 Sprayer	.30
K- 32—	Pump Top or Filler Cap for Nos. 10 and 15 Sprayer	.60
K- 13—	Plunger complete, with rod for Nos. 10 and 15 Sprayer	.60
K- 16—	Plunger Discs (flat and cupped, per pair) for Nos. 5, 10, 15 and 20	.10
K-112—	Cupped Plunger Leather for Nos. 5, 10, 15 and 20	.10
K-113—	Rubber Pump Gasket for Nos. 5, 10, 15 and 20	.10
K-127—	Pump Bottom and Check complete with ball	.70
K- 19—	Shoulder or Carrying Strap for Nos. 5, 10, 15 and 20	.30
K-122—	Hose complete for Nos. 10 and 15 (less automatic nozzle)	1.50
K- 30—	Hose complete for Nos. 5 and 20 (less automatic nozzle)	1.30
K-121—	Hose Gasket for Nos. 10 and 15	.05

AUTO-POP — An Automatic shut-off made entirely of brass. We are the pioneer builders of this type of shut-off. By a pressure of the fingers on the handle the spray is

turned on and by releasing this pressure the spray is automatically turned off. The Auto-Pop saves solution and reduces labor by 100%. Each \$1.60.

Bordeaux Nozzle
Each \$1.00

Have A Better Garden The Barker, Jr.

"Easy!"

The BARKER Way

We do not carry this in stock but can supply on short notice.

The BARKER Jr. has spoke wheels and is slightly lighter and less rugged throughout. The narrower widths of the machine come in the BARKER Jr. model.

No. 6—The Baby BARKER, Jr. Especially adapted for greenhouses and where rows are close together; small gardens. Lower knife cuts strip six inches wide. Has three shovels, and leaf-guards.

Price \$7.25

No. 8½—The BARKER, Jr. A favorite where onions are grown extensively, and for family garden. Women and boys and girls like this size. It weeds and mulches a strip 8½ inches wide. Has three shovels, and leafguards.

Price \$7.95

No. 10—The BARKER, Jr., Ten. A very popular size. Works a strip ten inches wide. Has three shovels, and leafguards.

Price \$8.45

No. 66—The Twin-Six BARKER, Jr. This is two six-inch Baby BARKERS fastened together, with adjusting rods. Weeds and mulches both sides of a row at one time. Can be used singly, if desired.

Price \$14.50

This is the machine that garden growers and florists everywhere are talking about—the famous BARKER Weeder, Mulcher and Cultivator.

Revolving blades work in combination with a stationary underground knife. Positively the most thorough and effective weed killer ever used. In the same operation they break up the clods and surface crust into a level, porous, moisture-retaining top mulch.

Much better and faster and easier than a wheel hoe. No jerking, pulling, jabbing; no strain on the arms and shoulders.

Does the work of ten men with hoes.

The BARKER is rugged in construction; no gears or other complicated parts to get out of order; will render you years and years of valuable service.

Real blades are made from spring steel; knife and shovels, from plow steel. Has big strong handle, of well seasoned wood.

Size	Price
6D Works 6-inch strip	\$ 9.25
8½D Works 8½-inch strip	10.60
10D Works 10-inch strip	11.75
11D Works 11-inch strip	12.60
12D Works 12-inch strip	13.45

Blades and knife of high grade steel. Long, heavy handle. Strongly built throughout. Shovel attachment has 3 shovels, except on size 6D which has 2 shovels.

No. 119 PLANET JR. GARDEN PLOW AND CULTIVATOR

This new member of the "Planet Jr." family will appeal to all those who prefer a high wheel tool for their garden work. Where the soil has not been so thoroughly and carefully prepared the high wheel undoubtedly makes an easy running tool.

The wheel is 24 in. in diameter with a rim 1½ in. wide, insuring easy running in the lightest soil.

The equipment is so complete that it will meet all the needs of the ordinary garden, where the adjustments and refinements of the higher priced Wheel Hoes are not required. Price \$5.00.

A neat, clean, well tended garden is a mark of industry and thrift. It reflects the type of home owner. Have a garden that you are proud to own.

Planet Jr. Garden Tools

Space will permit our describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements.

No. 25
PLANET JR.
Price \$21.00

No. 25 PLANET JR.
Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow. Valuable for gardeners who have enough acreage for a double wheel hoe. Combines in a most practical way the No. 4 Drill and No. 12 Double and Single Wheel Hoe. Holds $2\frac{1}{2}$ quarts of seed. Weight packed, 61 pounds. Price \$21.00.

No. 11 PLANET JR.
Double Wheel Hoe, with 2 pairs hoes, 2 pairs cultivator teeth, 2 pairs rakes, 1 pair plows and 1 pair leaf lifters. \$13.50.

No. 16 PLANET JR.
Single Wheel Hoe with 1 pair hoes, 3 cultivator teeth, 2 rakes, 1 plow and 1 leaf guard. \$9.00.

No. 17 PLANET JR.
Single Wheel Hoe, with 1 pair hoes, 3 cultivator teeth and 1 plow. \$7.75.

No. 220 Fertilizer Distributor
Capacity one bushel. Will distribute 100 to 2000 pounds of commercial fertilizer to the acre. Six adjustable spouts spreading from four to thirty inches. Equipment includes plates for closing up four spouts or three spouts on left side. Hopper placed well forward over wheel making lighter load and easier pushing. Feed can be opened and closed without stopping. \$27.00.

No. 4
PLANET JR.
Price \$18.00

No. 4 PLANET JR.
Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow. This tool combines in a single convenient implement, a capital hill-dropping seeder, a continuous row seeder, single wheel hoe cultivator and garden plow. Holds $2\frac{1}{4}$ quarts of seed. Price complete, \$19.00. Weight 50 pounds. As Seeder only, \$18.00.

No. 3 PLANET JR.
Hill and Drill Seeder
A favorite among onion growers, market gardeners and seedsmen. The special force feed is admirable, working equally well whether sowing with an ounce or a full hopper. 15-inch Steel Driving Wheel. Holds 3 quarts of seed. Weight packed, 43 pounds. Price \$17.00.

PLANET JR. SEEDER ATTACHMENT
No. 35

For hot-bed or greenhouse work. Can also be attached to the 119 Wheel Hoe or all Single and Double Wheel Hoes.

Without Handle \$6.00
With Handle \$6.50

No. 12 PLANET JR.
Double Wheel Hoe, with 1 pair hoes, 2 pairs cultivator teeth, 1 pair plows and 1 pair leaf lifters. \$10.50.

No. 18 PLANET JR.
Single Wheel Hoe, with 1 pair hoes only. \$5.75.

No. 300 DRILL SEEDER

A plate or disc seeder for all seeds from the smallest up to and including peas, beans and corn. Growers of peas and beans will appreciate this seeder as it does not break the seed and sows with great regularity. Only three plates each with thirteen holes, making ample adjustment for various seed. Hopper holds four quarts and is removable which makes easy filling and emptying.

Net weight 36 lbs.

Cultivating Attachments for Planet Jr. Tools

D. Mould Board Plow

Three-Prong Cultivator Teeth

Plow for S. Wheel Hoe

Rakes

Cultivator Teeth

Plows for D. W. Hoes

Cultivator Teeth. No. 1395. Fit combined seeders and double and single wheel hoes. Each 40c.

Plows for Single Wheel Hoes. R3 for cast frames, R6 for steel frames. Each \$1.35.

Three-Prong Cultivator Teeth. For fine, deep work. Per pair, \$1.75.

Onion Harvester. 8-inch size for onions and onion sets. These make splendid weeders. Each, \$1.60.

Rakes. Made in 3 sizes. Three-tooth, per pair, \$1.30; five-tooth, per pair, \$1.70; seven-tooth, per pair, \$2.40.

Note—All attachments on this page will fit Planet Jr. Single and Double Wheel Hoes and Combined Seeders and Wheel Hoes, excepting Nos. 19, 31, 33, 60, 65 and 66.

No. 2 PLANET JR. EDGER

Neatness is the great secret of attractiveness in grounds surrounding a house, and to have this neatness the grass bordering walks must be frequently edged or trimmed. With the No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick, rapidly and easily. Weight 3½ lbs.

The edging disc is made of high grade steel and will last for years. Price \$1.60.

Hoes. C and D1 for cast frame wheel hoes. C11 and D11 for steel frames. Made in four widths. Cutting 4½-inch, per pair, \$1.20; 6-inch, per pair, \$1.30; 7-inch, per pair, \$1.60; 9-inch, per pair, \$1.75.

Peat Land Hoes. Like the C & D Hoes, but with extra wide high shields to prevent dirt from falling back and covering the plants. 6-inch cut only, per pair, \$2.60.

Double Mouldboard Plow. It can be set to furrow wide or narrow, or to hill much or little. Width at widest, 14 inches; narrowest, 10 inches. Each, \$2.40. With connecting piece for double wheel hoes and No. 25, 85c extra.

Plows for Double Wheel Hoes. M4 and N4 for cast frames, M5 and N5 for steel frames. Per pair, \$1.40.

DISC HOES

Adjustable, cuts and turns the soil, throws to or from the rows.

Price, pair \$3.50.

PLANET JR. GARDEN TOOLS

Space will permit our describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements.

FERTILIZERS FEED THE SOIL AND IT WILL FEED YOU

FERTILIZERS

Uses of Main Plant Foods

Nitrogen.—Promotes leaf and stem growth; increases proportion stalk to fruit, and hastens blooming. An excessive amount delays maturity.

Phosphoric Acid.—Stimulates early root formation; gives vigorous start to plants; increases ratio fruit to stalk; improves quality of fruit and hastens maturity of crop.

Potash.—Is important in sugar and starch formation; gives stiffness to stalk; helps plants to resist disease, and improves quality of fruit.

PRICES ARE LOW

2½ bushel size	\$2.25
1 bushel size	1.00
½ bushel size	.60
¼ bushel size	.35

A special garden size for peas, beans and sweet peas will insure you large, luscious peas and beans, and abundant sweet pea blossoms for gorgeous coloring.

Price 25c

HOW TO USE MORCROP FERTILIZER

On Lawns.—Use one hundred pounds per thousand square feet when making new lawn and this should be worked into the top four inches of soil before seeding. When top dressing on established lawns up to one hundred pounds can be used on each two thousand square feet. Best results are obtained when used during the rainy season. If application is made during the summer months smaller quantities should be used and the ground should be watered freely to make the fertility available at once and prevent burning in spots where too much has been applied.

On Any Cultivated Crops.—At least one-half the fertilizer should be applied broadcast over the entire field to induce development of the large and extensive root system which will enable the plants to gather moisture and plant food from a much larger area during the latter part of the growing season. The balance should be applied around the hills or alongside the rows.

VEX Automatic Lawn Fertilizer

Lawn Vex is the most concentrated fertilizer known. It is 100% plant food, an organic and water soluble; it is a neutral and leaves no residue. Lawn Vex contains 46% available

nitrogen, the equivalent to 55.9% ammonia. Lawn Vex has no odor, is non-poisonous and will not stain. Lawn Vex is automatically applied as a liquid as you sprinkle and goes right to the roots of every blade of grass. It is available immediately and benefits grass at once. The container is 13" long, made of brass and attached to your hose. Puts the fertilizer at the roots in a liquid form where the grass can feed on it at once. No danger of burning, sanitary, odorless, a child can apply it. Anyone can have a perfect, velvet green, vigorous lawn by feeding it regularly with Lawn Vex.

Price complete including container, refill and short length of hose, \$8.00. Price of extra fertilizer refills, each \$2.15. Prices f. o. b. Portland. A refill is sufficient for one fertilizing of the usual lawn.

Colorful Flowers.

ENJOY BETTER LAWNS, FLOWERS AND GARDENS BY USING

VIGORO

There is no secret in having a velvety lawn, colorful flowers, crisp, succulent vegetables, luxuriant shrubbery and stately trees.

Delicious Vegetables.

You can enjoy these beauties of nature if you use good seed, plants, bulbs and the right plant food. The right plant food is important because plants must be fed the same as human beings.

VIGORO is a plant food specially prepared to supply growing things with all of the plant food elements needed for rapid, sturdy, and beautiful growth. VIGORO is odorless, clean and easy to apply. It can be sown by hand like grass seed.

CLEAN,
ODORLESS,
EASY TO
APPLY.

VIGORO

Specially prepared plant food

100-lb. bag\$6.00
50-lb. bag 3.75
25-lb. bag 2.00
5-lb. pkg.60
Not prepaid.

A SWIFT & COMPANY PRODUCT

MORCROP COMPLETE MIXED FERTILIZERS

MORCROP -K-3-10-7

A complete fertilizer for grains, berries, vegetables and root crops. Some truck crops like Lettuce, Spinach, Onions and Corn respond especially well to it.

Per 100 lb. sack.....\$3.50
Per 25 lb. sack..... 1.25
Per 10 lb. sack..... .50
Per 4 lb. carton..... .30

LAWN MORCROP 6-1-1

A scientific dressing for established lawns which produces that thrift so much desired. It discourages weeds and adds to the water-holding capacity of the soil. As a top dressing use 10 to 15 pounds per 1,000 square feet every 60 or 90 days; 100 lbs. per 1,000 square feet is right when mixed with the soil in making new lawns.

Put up only in 50-lb. bags.
Per 50 lb. sack.....\$1.75

MORCROP -L 5-6-8

A high nitrate complete fertilizer, relatively high also in potash, desirable because of its concentrated form. Especially useful for hops, lawns, meadows and pastures. Soils lacking in nitrogen and potash should have this formula.

Per 100 lb. sack.....\$3.50

MORCROP -B 2-10-2

Another complete fertilizer, high in phosphates, lower in price, and total analysis. Valuable for grain crops and in conjunction with green manure.

Per 100 lb. sack.....\$3.00

MORCROP TABLETS for Milady's Houseplants

Highly concentrated, complete fertilizer in tablet form for convenient application. Odorless, clean and quickly water soluble. The action is rapid and both foliage and bloom is improved. Equally effective in the garden.

Package 15c

In recommending "Morcrop" Fertilizers we wish to call attention to the fact that these Fertilizers have been prepared to fill the requirements of the average soil. They contain the correct proportion of NITROGEN, PHOSPHORIC ACID and POTASH.

Fertilizer should be applied to the soil in the spring before the end of the rainy season. They may be sown broadcast or applied near the plants—never against the plants or trees, etc. We recommend 500 to 600 lbs. per acre of "Morcrop" Fertilizer and an abundant crop will be assured.

Working the MORCROP well into the soil makes it available to the crop at once and proves the most effective as well as the most economical method of application.

Write for price on lots of 300 lbs. and over.

FERTILIZERS

GROZ-IT BRAND

PULVERIZED SHEEP MANURE

THE FERTILIZER FOR LAWNS, GOLF GREENS, FLOWER BEDS, WINDOW BOXES, HOUSE PLANTS, TREES, SEED BEDS IN NURSERIES AND THE GARDEN

We get this from Nevada—it's the best there is—none better.

GROZ-IT Pulverized Sheep Manure has no rival:

1. For Lawns. (Note—After being spread on the grass and watered, the manure disappears, so that, while undergoing fertilization, the beauty of the lawn is not impaired.)

2. For Golf Greens. When color and strength of grass is required.

3. For all kinds of Flower Beds, especially Tubers and Bulbs, which require a large amount of potash.

4. For Seed Beds in Nurseries.

5. For Fertilizing your Trees.

6. For Window Boxes and House Plants.

7. For the Garden.

Remember that GROZ-IT Pulverized Sheep Manure is aged for several years and will not burn your plants, no matter in what quantities you use it—but as it is highly concentrated, a little goes a long way.

Used for top dressing, mulching, etc.

Valuable in a run-down city garden, as it adds humus and vegetable matter which are essential for all vegetation.

It may also be used at the rate of 20 to 50 lbs. to every 1,000 square feet in a dry form, or 500 to 1,000 lbs. per acre.

Makes the richest and safest liquid manure, using 1 lb. to 5 gallons of water once a week.

For Greenhouse Plants mix one part of Groz-it to about 10 parts of soil.

The ordinary manure, which is so necessary to plant life, has many objectionable features, when used close to the dwelling. It is unsightly, has a disagreeable odor, draws flies and insects, etc., likewise it is too bulky to be used to the best advantage.

In its place, we offer you a highly concentrated, pulverized, natural sheep manure, packed in sacks, light, dry, odorless, free from seeds and all foreign matter, with a plant food value many times that of ordinary manure.

This we guarantee to contain plant food as follows:

Nitrogen 1.84 As Ammonia.....	2.25
Water Soluble Potash K-2 O.....	3.90
Total Phosphoric Acid.....	1.25
Available Phosphoric Acid.....	0.75

PRICE

10 lbs.	30c	50 lbs.	\$1.00
25 lbs.	60c	100 lbs.	1.50
500 lbs.	\$6.25	Per ton	25.00

These prices are F. O. B. Portland.

SULPHATE OF AMMONIA

Analysis—Nitrogen as Ammonia 25%

Is gaining in favor equally fast with Truck Gardeners, Fruit Growers and Grain and Hay Producers. It is always uniform in quality. The fine dry crystals run as freely and spread as evenly as table salt.

It is instantly absorbed by the water in the soil and is immediately effective. It should be borne in mind that Sulphate of Ammonia is not offered as a complete fertilizer, but as a source of Nitrogen alone. On cultivated crops, grains and meadows, use 100 to 150 pounds per acre.

Write for price.

NITRATE of SODA or CHILI SALTPETER

Nitrate of Soda is not a substitute for other manures, but we recommend it as the cheapest and best form in which to apply Nitrogen to plants. Gardeners who are using farm manure should continue to use it, but use Nitrate of Soda in addition to other fertilizers. If your object is to grow maximum crops you must in some way furnish the plants with Nitrogen. No matter what manure or fertilizer is used, the Nitrogen must be converted into Nitrate before the plants can use it.

Write for price. Cannot be mailed.

LAND PLASTER OR GYPSUM

Made from pure Gypsum, free from clay or other foreign matter. This is especially valuable for clover crops. 10 lbs., 25c; 100-lb. sack, \$1.00.

MURIATE OF POTASH

This fertilizer is especially valuable to fruit trees and berries. It increases the size and yield and makes a marked improvement in quality and color. Use about 200 lbs. per acre. Very valuable to use with stable manure, which is always shy of potash. Write for price.

SULPHATE OF POTASH

A desirable form of potash, especially valuable for potatoes and any root crops, such as beets, turnips, etc.; also cabbage, etc. Write for price.

PURE BONE MEAL

Pure Ground Bone, fine ground, is one of the best fertilizers. This is the only grade of Ground Bone we sell, 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. Per lb. 5c; 100 lbs., \$3.00.

SUPERPHOSPHATE

Analysis—Phosphoric Acid, 17%

This is what is known as acid phosphate and is commonly used where a fertilizer high in Phosphoric Acid is wanted. Especially valuable on berries and fruits as it improves the color and shipping qualities. While the phosphoric acid in this is not so valuable as that in Bone Meal it is more quickly available and in some cases more useful. Super-phosphate is recommended as a top dressing for grass lands and grains. It is generally used at the rate of 300 to 600 lbs. per acre. Write for price.

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. Write for price.

LIME

Lime Rock—Fine Ground—This is the form of lime recommended by the Agricultural Department. Use ½ to 1 ton per acre. 100 lbs., \$1.25; ton, \$15.00.

SULPHUR FOR FERTILIZER

Recent field experiments in the Northwest have demonstrated the fact that Sulphur is one of the most valuable fertilizing materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetables, but having the further and more valuable property of making available the insoluble potash and phosphoric acid contained in all soils, as well as being an effective fungicide and insecticide. Write for price.

SPRAYS, SPRAY MATERIALS, ETC.

"EVER GREEN"

Non-Poisonous Insecticide

Sure Death to Plant Insects—
Harmless to Man, Birds
and Animals

A sure killer of most plant insects—and yet offers no poison whatever to human beings, livestock or birds—it is positively not a poison. The active principle is Pyrethrum, or insect flowers, which has this valuable property of being deadly to nearly all insects. Especially recommended for killing Cut Worms, Cabbage Worms, Green Flies, White Flies, Thrips, Leaf Hoppers, Currant Worms, Aphids, Rose Chafer, Rose Slugs, Pear Slugs, Mealy Bugs, Mites, Red Spiders, Japanese Beetles, Leaf Tiers, Potato Beetles, Squash Beetles (Stink Bugs), Aster Beetles, Bean Beetles, Cucumber Beetles, Ants, Plant Lice, Melon Bugs.

PRICES NOT POSTPAID

1 oz. bottle 35c; 6 oz. bottle \$1.00; 16 oz. bottle \$2.00; 32 oz. bottle \$3.50; 1 gal. bottle \$13.00.

HAMMOND'S SLUG SHOT—Used from Ocean to Ocean. A light, composite, fine powder, easily distributed either by dusters, bellows, or in water by spraying. Thoroughly reliable in killing Currant Worms, Potato Bugs, Cabbage Worms, Chicken Lice, Slugs, Sow Bugs, Mexican Bean Beetle, Army Worm, and it is also strongly impregnated with fungicides.

5-lb. package, 75c, postpaid for 90c.

**A Successful
Remedy
for
Cabbage
Maggot**

For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. $\frac{1}{2}$ pt., 50c; pt., 75c; qt. \$1.25; gal., \$2.75.

ACME ALL-ROUND SPRAY

Flowers, vines, shrubs, roses, vegetables need protection same as commercial crops. All-Round Spray contains the three leading remedies used by all large growers, arsenate of lead, nicotine sulphate and Bordeaux mixture. Perfect protection for the small user is assured by complete directions in form of spraying guide attached to every package.

$\frac{1}{4}$ lb. carton 35c 1 lb. carton 85c

f. o. b. Portland; not mailable

WHALE OIL SOAP (Fish Oil)

This is not only an excellent insecticide for killing plant lice and fungus growth, but should be mixed with most all liquid sprays as it causes the spray to adhere much better to the leaves. **1 lb. 25c. Write for quantity price.**

FORMULA FOR CUTWORM AND GRASS-HOPPER POISON FOR FIVE ACRES

Paris green (or white arsenic) 1 lb.
Molasses (cheap blackstrap preferably) 2 qts.
Lemons (or oranges) $\frac{1}{2}$ doz.
Water 4 gals.
Bran (or alfalfa meal) 25 lbs.

Grind lemons with meat grinder, mix all ingredients thoroughly. Spread thinly to avoid danger to livestock. Best spread in the late afternoon.

LIME SULPHUR (Solution)

The best remedy for San Jose scale. One gallon makes twelve. Also one of the best summer sprays, as it is an excellent fungicide. When used in summer dilute with 20 to 30 parts water. **Qt. can, 25c; gal. can, 75c; 5-gal. can, \$2.25; 50-gal. barrel, write for price.**

ARSENATE OF LEAD (Dry)

For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in an efficient manner. **Write for price.**

FUNGI-BORDO (Bordeaux Mixture)

In powdered form, mixes perfectly with cold water. For peach, tomato and potato blight all fungus diseases. **Write for price.**

BLUE STONE

(Sulphate of Copper)

Applied in time it will prevent mildew and all fungus diseases. Also prevents smut on barley and wheat, by soaking seed to be planted in a solution of 1 lb. to 6 gallons of water for ten or fifteen minutes. May be sent by parcel post. **Write for price.**

FORMALDEHYDE

Treat Your Seed With Formaldehyde

A preventive for smut in grain—scab and fungus diseases of potatoes.

Formaldehyde is a clear chemical, resembling water, but has a peculiar odor. It is sold by the pound (pint). One pound is sufficient to treat 40 to 50 bushels of oats.

Prices: Pints, 60c; quarts, \$1.00; express or freight at purchaser's expense; cannot be mailed.

HAMMOND'S GRAPE DUST

To prevent mildew on roses, grapes and gooseberries.

5-lb. pkg. \$1.00, postpaid \$1.15.

MAGGOTBATE

You Can Control Root Maggot

Easily applied, inexpensive, not harmful to plant life; but a valuable fertilizer and stimulant in powder form. Absolutely protects cabbage, radishes, turnips, onions, etc. Price: 2-lb. carton, 25c; 25-lb. bag, \$2.25; postage extra.

SULPHUR CANDLES

Sulphur Candles—These will burn for 3 hours and are fine for fumigating hen houses and dog kennels, killing all vermin. **Price: 15c each, postpaid.**

WOOD-LARK SQUIRREL AND GOPHER POISON

Ready for Instant Use—Never Fails

Is guaranteed the most reliable and destructive agent yet devised for the extermination of squirrels, sage rats, prairie dogs, pocket gopher, field mice and crows. Every kernel is warranted to kill. We will cheerfully refund the purchase price in every case in which it fails to satisfy. Should be used early in the Spring, when green food is scarce. Place a few kernels near the burrowing place of the animals. Care should be used in placing it so as not to destroy song birds. Price: 1-lb. cans, each 50c. Cannot be mailed.

SPRAYS, SPRAY MATERIALS, Etc.

*Paints
and also
Disinfects
Dries White*

CARBOLA
The Disinfecting White Paint

THE POWDER OF MANY USES

Send for Carbola Circular

Use CARBOLA Instead of Whitewash

Carbola is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills, lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl. Carbola is two things in one—a paint that disinfects or a disinfectant that paints. It dries a clear snow white. It saves labor, time and money. It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect only.

Carbola is recommended for use instead of whitewash in every place where whitewash ordinarily is used.

Garages	Warehouses	Outbuildings
Factories	Cellars	Tree Trunks

It is recommended for use instead of whitewash and disinfectants in

Stables	Kennels
Poultry Houses	Rabbit Hutches
Creameries	Hog Pens
	Dairy Buildings

The postpaid prices apply only to the 1st, 2nd and 3rd zones.

Trial package	Postpaid \$0.35
5 pound pkg.	Postpaid .75
10 pounds (10 gal.)	Postpaid 1.50
20 pounds (20 gal.)	Postpaid 3.00
50 pounds (50 gal.)	Prepaid 6.25
200 pound bags	Prepaid 22.00

BUG DEATH Effective But Not Poisonous

Every garden is bothered by bugs of some kind but many people are afraid to use the regular insecticides because they are poisonous.

In Bug Death we offer an insecticide which is easy to apply, which kills all bugs that eat the stems and leaves of plants, but which is not poisonous. It is harmless to human beings and live stock. It can be kept in the house without danger as it won't hurt the children even if they should happen to get some of it.

DON'T WAIT UNTIL THE BUGS APPEAR—ORDER BUG DEATH WITH YOUR SEEDS

Bug Death is a very fine house powder and can be applied either dry or in solution. The one pound cans have sifter tops which are very convenient.

Prices on Bug Death: 1 lb. Sifter Top Cans, 35c; 3 lbs., 75c; 5 lbs., \$1.00; 12½ lbs., \$1.75, postpaid.

DRY LIME SULFUR

Controls all scale and fungus diseases for which Lime-Sulphur Solution is recommended. More convenient to handle and saves freight on water. Put up in air-tight packages, which should be used when opened. For Winter Spray use 10 to 14 pounds to fifty gallons of water. For Summer, in combination with Arsenate of Lead, use 2 to 3 pounds to fifty gallons of water.

Price: 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$3.75; 100 lbs., \$12.50.

"BLACK LEAF 40"

40% Nicotine

Destroys Aphis, Thrips, Leaf Hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage. Combines readily with other sprays. Also for poultry lice.

1 oz., 6 gals. spray	\$0.35
½ lb., 40 to 120 gals. spray 1.25	
2 lb., 150 to 500 gals. spray	3.25
10 lb., 800 to 2500 gals. spray	11.85

Cannot be mailed.

NICO-FUME

The purest and mostly refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like Nico-Fume better than other preparations.

Nico-Fume Liquid for spraying or vaporizing: 1-lb tin, \$2.00; 4-lb. tin, \$6.25; 8 lbs. (gal.), \$11.50. (Cannot be mailed.)

"NICO-FUME" TOBACCO POWDER

Tobacco Powder impregnated with a high strength nicotine solution. Effective for fumigating in green-houses to destroy Aphis, Thrips, etc. Fill 2½-inch flower pot heaping full of "Nico-fume" Powder, pour powder out on ground or cement walk in a narrow pile about 7 inches long and light. Use a pile to each 5000 cubic feet of air space. Place piles equal distance apart.

1 lb. can \$1.00; 5 lb. can \$3.75; 10 lb. can \$6.85. F. O. B. Portland.

SULPHUR

For Dry Dusting of Trees, Vines, Etc., Bleaching Fruit, etc.

It has been proven and so recommended by the University of California that if you sulphur your grape vines and orchards six times they will not be affected by Mildew or Red Spiders and rust. Write for price.

PARIS GREEN

Directions for use: Four to six ounces to fifty gallons of water. Or two teaspoonfuls to one gallon of water. For cut worms and grasshoppers add one tablespoonful of Paris Green to ten pounds of bran and spread about the base of the plants. It is always well to add ¼ lb. Paris Green to each barrel of Bordeaux when spraying tomatoes. Write for price. Cannot be sent by mail.

Dr. Hess Poultry PAN-A-MIN

PAN-A-MIN has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-ce-a.

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Dr. Hess Poultry Pan-a-min means Pan-a-ce-a plus.

Pan-a-min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health.

It does not take the place of feed and no feed can take the place of Pan-a-min. The cost is less than a penny per hen per month.

In 100-lb. iron drums and convenient size carton packages.

5 lbs., 65c; 7 lbs., \$1.25; 15 lbs., \$2.25; 25 lbs., \$3.50, postpaid. Guaranteed.

For Worms in Poultry

DR. HESS Poultry Ver-mi-trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feed in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-a-min fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. It is palatable, all birds eat it readily.

As a preventive measure, to avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.

Dr. Hess POULTRY VER-MI-TROL

4-lb. Package, \$1.50, Postpaid

INSTANT LOUSE KILLER

Guaranteed

Kills lice on poultry, horses, cattle; sheep ticks; bugs on cucumber, squash and melon vines; cabbage worms; slugs on rose bushes, etc. Sold in sifting-top cans. Look for the word "Instant" before buying. 1-lb. pkgs., 30c; 2½-lb. pkgs. 60c.

DR. HESS POULTRY TABLETS Formerly DR. HESS ROUP TABLETS

For Roup, Diphtheria, Chicken Pox and all catarrhal diseases. It has these distinctive features—it is antiseptic, slightly astringent, non-irritating and healing. 100-15 grain Tablets, 50c, postpaid. Guaranteed.

DR. HESS CHICK TABLETS Formerly DR. HESS WHITE DIARRHEA REMEDY FOR CHICKS

And all poultry affected with white diarrhea. Can be mixed with feed or put in drinking water. Pkg. 50c, postpaid. Guaranteed.

DR. HESS DIP AND DISINFECTANT

Small	60c
Quarts	75c
2-quarts	\$1.25
1 gallon	\$2.00

Postpaid

"GOLD LEAF" TOBACCO POWDER

Owners of poultry often do not realize the injury which may be done to their flocks by attacks of intestinal worms. The failure of young birds to develop properly, and an unhealthy condition of the older birds, is often caused by the presence in their intestines of poultry round worms.

As a result of extensive investigation carried on by the California Agricultural Experiment Station, it was found that tobacco dust, or finely powdered tobacco, was one of the most effective remedies against round worms in poultry which could be used; one that is uniform in strength and texture, and contains not less than 1% and not more than 1.5% of actual nicotine.

These requirements are provided in "Gold Leaf" Tobacco Powder. It is packed in 2-pound sealed paper sacks, 12 to the case, 10-pound paper sacks, 6 to case, thus assuring the poultry owner of a reliable tobacco powder of the proper kind in original factory-packed containers. Prices: 2-lb. Pkgs. 30c each or \$3.00 per doz.; 10-lb. Pkgs. \$1.00 each or \$5.50 per case of 6. Postage extra.

GERMOZONE KEEPS POULTRY HEALTHY

Germozone is a popular and very effective medicine for poultry and pet stock against colds, sore head, chicken pox, bowel trouble, skin diseases, sores, and wounds. Has been on the market for 20 years and proved its worth.

Small bottle liquid, postpaid	\$0.40
Medium bottle liquid, postpaid	.75
Large bottle liquid, postpaid	1.50

BAG BALM

Bag Balm—For Bunches, Caked Bag, Cuts, Sore Teats, Chapping and Inflammation.

Bag Balm strikes into the milk glands, allaying irritation, relieving congestion and softening the tissues. It heals the skin troubles, and makes the teats soft and pliable. A few applications relieves the worst cases. Bag Balm is soothing, healing and penetrating.

½-lb. tin

60c

ZENOLEUM LICE POWDER

A high grade fluffy dusting powder, using tobacco as a base, mixed with non-poisonous insecticides. A sure lice killer for poultry and live stock. A big winter help, but good all the year round. Great for chicks. We have succeeded in producing the finest lice powder in the world. Try it now! Pkg. 35c. postpaid.

Many Uses for Zenoleum

CATTLE

Abortion
Afterbirth Retention
Anthrax
Brack Leg
Bloat
Calf Cholera
Cow Pox
Eczema
Flies
Foul in Foot
Garget
Horn Fly
Lice
Mammitis
Mange
Milk Fever
Ringworm
Sanitation
Screw Worm
Scours
Sore Mouth
Southern Fever
Southern Itch
Surfeit
Ticks
Tuberculosis
Warbles

DOGS

Mange Fleas

SWINE

Cankered Nose
Castration Cholera
Dipping Swine
Eczema Garget
Granular Eruption
Injuries
Inverted Uterus
Lice Mange
Mammitis
Mouth Diseases
Nettlerash Surfeit
Scours Urticaria
Sore Tails Worms

HORSES

Lice Farcy
Distemper Flies
Glanders
Intestinal Worms
Mange
Navel and Joint Diseases
Pin Worms
Quitter
Ringworm Thrash
Strangles Wounds

Won't poison—won't hurt you—won't explode or burn. Kills vermin, cures skin trouble.

PRICE LIST ZENOLEUM DISINFECTANT AND DIP

Eight ounces make	6 gal. of fluid	Postpaid	\$0.35
One quart makes	25 gal. of fluid	Postpaid	.75
Half gallon makes	50 gal. of fluid	Postpaid	1.25
One gallon makes	100 gal. of fluid	Postpaid	2.00
Five gallons make	500 gal. of fluid	Prepaid	8.00

SHEEP

Castration
Docking
Fly and Maggots
Foot Rot
Fouls
Lice—Red or White
Lung Worms
Scab
Sore Mouth
Stomach Worms
Ticks

POULTRY

Blackhead Canker—Pip
Chicken Cholera
Foot Diseases
Gapes
Incubator Use
Lice and Mites
Roup
Scaly Legs

A CAN OF ZENOLEUM
TAKES THE PLACE OF
A SHELF FULL OF
DRUGS—IT'S GOOD FOR
SO MANY THINGS.

KOW KARE

Kow Kare (originally Kow Kure) 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 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 is the dairyman's gold mine, and a sure profit-payer. Medium cans, price 65c; large cans \$1.25.

Write for Booklet, "More Milk from the Cows."

USE BLACK LEAF 40

For Controlling Poultry Lice

Especially recommended for controlling poultry lice, by simply painting or spraying the roosts with it. 1 oz. bottle 35c; ¼ lb. \$1.25; 2 lbs. \$3.25; f. o. b. Portland. Not mailable.

CARBOLINEUM

Arrow Carbolineum—Kills chicken mites in poultry houses. Can also be used to advantage on stables, shingle roofs, fence posts, vineyard posts, top poles, tanks, water towers, sidewalks, silos, steps, sills, etc. Put up in—

1 quart cans	\$0.60
1 gallon cans	1.60
5 gallon cans	7.50

ANYONE CAN HAVE A WONDER GARDEN

Make your flowers and vegetables grow faster. Make their growth stronger and more luxuriant.

STIM-U-PLANT

PLANT-STIMULANT TABLETS

THE MAGIC FERTILIZER IN TABLET FORM

STIM-U-PLANT is the most complete plant-food in tablet form. The three mineral nutrients most heavily drawn from the soil by growing plants (flower and vegetable) are nitrogen, phosphoric acid, and potash. Because of this fact, STIM-U-PLANT tablets are made up of these three in a balanced ration of 11 per cent Nitrogen, 12 per cent Phosphoric Acid, 15 per cent Potash—all of which elements are water-soluble and immediately available to the feeding root-hairs of the plant.

TABLET FORM FERTILIZER UNIQUE AND VALUABLE

1. Gives an EXACT FEEDING UNIT—no guesswork.
2. Provides for ABSOLUTE CONTROL of feeding, eliminating the danger of over-feeding.
3. No MESSY MIXING.
4. No unpleasant ODOR.
5. Is EASIEST TO APPLY.
6. Insures MAXIMUM EFFICIENCY because the plant gets all the food-value—none being lost through scattering where not available to the plant, leaching, and run-off of surface soil-water.
7. Makes REPOTTING of house plants UNNECESSARY, as it replaces the food withdrawn by the growing plant.

Because of its ready solubility, STIM-U-PLANT can easily be used as a liquid manure, by dissolving the tablets in water at the rate of four to the gallon.

Small size, 30 tablets	\$0.25
Medium size, 100 tablets	.75
Large size (pail), 1,000 tablets (enough for season's supply for medium-sized gardens)	3.50

We Sell and Recommend Burrell-Dugger Guaranteed Poultry Remedies

DON SONG Makes Hens Lay!

We Guarantee you—More Eggs or No Pay
 "Hens won't lay in Fall and Winter," used to be accepted as a fact. But anyone who has tried Don Song knows that hens will lay right through the zero spells of winter, and all other cold or wet seasons. Some may doubt this—and you may be one of them. But if you don't at least try Don Song, you are missing some sure, easy profits from extra eggs.

A Mineral Compound that Scientifically Helps Nature

Don Song doesn't force or hurt the hen in any way. It is a balanced mineral conditioner. It improves the hen's health, tones up her egg-laying organs, and makes her stronger and more productive. It helps supply, during Fall and Winter, those mineral elements, lacking in the feed at that time.

Costs Nothing to Try—Give
 Don Song to 15 hens for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and a good profit, your money will be promptly refunded.
 Prices: Trial size, 50c; Large size, \$1, holds 3 times the 50c size; SPECIAL SIZE (6 times the \$1 size)—\$5.

To Kill Chicken Lice!

The U. S. Dept. of Agriculture says, "Nothing is as satisfactory as Sodium Fluoride. It kills both old and young lice, including the young which hatch from the eggs present on the fowl at time of treatment." Talcimized Sodium Fluoride is the form for poultrymen to use. Here it is, Ready to Use.

Here is T. S. F., specially made for poultry. It is less irritating, and is so light and fluffy that it penetrates the plumage. It is in a handy sifter-top can that keeps it protected. Carries the Government's directions for use by the "dusting," "dip" and "pinch" method.

Prices of T. S. F. Delivered
 Small Size (enough for 40 chickens) 40c
 Large Size (Twice as much) 70c
 Special Size (Five times the large size) \$2.65

**TALCIMIZED
SODIUM FLUORIDE**
 (Called "T.S.F.")

(All these prices include packing and postage.)

Wormoids

Large round worm infestation in poultry is a common condition. Many flocks are badly affected—yet the poultryman is not aware of it. The most common symptoms are general emaciation, wasting away or going light. If your flock is not in good health, it is a mighty good plan to look for intestinal worms. Price, 50 Capsules \$1.00, postpaid.

Stops Chicks Dying
The Wonder Remedy for
WHITE DIARRHOEA or
Cholera in chicks, and
Black-Head in Turkeys
Does work in 48 Hours

White Diarrhoea kills half of nearly every hatch of chicks. The strange thing is that so many people think this loss can't be stopped. But it can be stopped, without extra work, without troublesome dosing, and at almost no cost. For years, thousands have saved their sick chicks and raised nearly every chick in every hatch, by keeping Avicol in the drinking water.

Avicol is a bowel antiseptic. It makes chickens healthy and keeps them healthy. Costs less than a cent a day for an ordinary flock. Guaranteed.

Price 50c; Large Size (Almost 3 times as much) \$1.

Group-Over

A New Prompt and Positive Guaranteed Treatment for Roup, Canker and Colds in Poultry

Roup works fast. It usually begins with a cold. After that, the disease progresses rapidly. It is very contagious and can soon kill every chicken you own. Roup is one of the most serious of poultry diseases.

Keep Roup-Over on hand and at the first symptoms of a cold in your flock, give it to every affected bird. It clears the air passages and brings relief with magic quickness. Easily given. Comes in a liquid form and a few drops does the work. Fully guaranteed.

Price 50c; Large Size \$1 (Three times 50c size)

For Gapes in Chicks!

When gapes starts in your flock, get the best of it promptly or it may kill all your chicks. Get Trakol and watch it quickly master the situation. Easily given in the drinking water. Guaranteed. Price 50c.

Trakol
For Gapes
In Chicks

BARNES WORM EMULSION

Many so-called remedies are offered and some will cause live worms to be expelled, but the expelled worms are frequently eaten by poultry, and greater infection results than before because the worms themselves are a mass of eggs. But Barnes Worm Emulsion kills the worm, eggs and all, without harm to the chicken. Send for booklet giving full details.

16 oz. 60c; qt. \$1.00; gal. \$3.00; 5 gal. \$12.50

POULTRY SUPPLIES

Especially designed for growing stock—three to four week chicks—and up to full-grown fowl. Big Capacity, about 75 lbs. of dry mash, with large wide feeder openings, smooth rounded edges.

Can be placed on the ground or suspended by wire handles. Length 33 in. with 34 feeder openings.

No. 160—Big Boy Feeder..... Each \$4.25

MAGAZINE CHICK FEEDER AND WATERER

The top magazine is water and air tight, so can be used as a Feeder or Fountain. Adjustable for various kinds of feed. Capacity 2 quarts.

No. 18—Moe's Chick Feeder and Fountain. Each 55c.

Patented May 13, 1919

The "LAWN PARK" Brood Coop

It is made entirely of galvanized materials, will not rust, and absolutely protects chicks against rats, cats, dogs, hawks, vermin, cold, storms and all other chick enemies. The metal actually repels lice—that's important. The main part of the coop is made from heavy galvanized steel, while the park is made from strong galvanized wire screen, which has the edges neatly bound and strongly reinforced with galvanized steel. The "LAWN PARK" is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. The coop and the park are of equal length. The park permits the chicks to have plenty of sunshine and fresh air, and also allows them to range on grass. Can be moved from place to place easily, thus giving them a fresh supply daily. Coop has removable bottom for quick and easy cleaning. The overhead damper ventilation system keeps the coop cool without chilling the chicks. The chicks saved on one brood will pay for one or more coops. Regularly packed in crates of six, but any quantity will be shipped promptly by freight or express upon receipt of the price, \$6.00 each.

DREW LICE AND MITE FREE NESTS

Healthy hens, high egg production, freedom from disease and low labor costs are the result of using Drew Sanitary Steel Nests. Drew nests are built to hang on the wall, up from the floor. They are built in 3, 6 and 10-nest sections and are listed as the DB823, 826 and 830 respectively.

Drew Nests are sanitary. Manufactured of heavy, hot galvanized copper steel, there are no cracks in which the lice and mites can harbor. They can be scrubbed as needed with disinfectant and be put back in the house just as good as the day they were bought. Hung on the wall with heavy hooks, the open backs make cleaning easy by simply swinging the nest out from the wall and allowing the old nesting material to fall out.

One nest is recommended for each five hens. The nest boxes are 13 inches deep, 11½ inches wide, 13 inches high, and a 9¼-inch round nest hole. The DB823, 3-hole nest section is single tier, the section are double tier. These nests will take care of either large or small breeds.

Price: DB823, \$5.00; DB826, \$7.00; DB830, \$10.50. F. O. B. Portland.

6-hole nest section and the DB830, 10-hole section are double tier.

PORCELAIN NEST EGGS

These are the finest quality nest eggs. Nothing equals them to induce pullets when first commencing to lay to use the nest. Price, per doz., postpaid. 50c.

POULTRY PEPPER

Poultry Pepper—A good tonic and invigorator. Ground. Price, 1 lb., 35c, postpaid.

DRY MASH FEEDERS

No. 24—"CYMACO" Dry Mash Feeder, 24 inches long, four feet feeding space; capacity one bushel.
Price each \$4.25

Fine Feeders for growing stock, ample capacity and great time and labor savers. Two sizes.
No. 140—Length 21 in. Holds 10 qts.—32 Feeder holes Each \$1.40
No. 141—Length 35 in. Holds 17 qts.—54 Feeder holes Each \$2.00

SPECIAL FEATURES

1. Large capacity.
2. Stands on steel legs securely attached to feeder, making it unnecessary to hang it on the wall.
3. Can be placed in the center of the Scratch Pen.
4. Feeds from both sides, thus accommodating twice as many fowls at the same time as ordinary feeders.
5. Flow of feed is adjustable, thus making it very satisfactory for the feeding of all kinds of dry feed.
6. Feed troughs are shedded, thus making it possible to use feeders out of doors.
7. The "CYMACO" Feeder is equipped with agitators operated by the fowls feeding, which absolutely prevents clogging.

No. 12—"CYMACO" Dry Mash Feeder, 12 inches long, two feet feeding space; capacity one-half bushel.
Price each \$3.25

MOE'S DRY MASH HOPPERS

A strictly high quality hopper, properly designed. The curved bottom keeps the feed in easy reach, and the taper shape of the hopper prevents the feed from clogging. Height 19 inches.

Each
No. 35—Width 8½ in.....\$1.65
No. 36—Width 12 in..... 2.20
No. 13—Width 18 in..... 2.50
No. 37—Width 24 in..... 3.10

Grit and Shell Boxes

Grit, shell and charcoal have now become a recognized essential part of the diet insuring healthy fowls. They cannot be more economically supplied than in one of our inexpensive compartment boxes. Can also be used as a feed hopper for little chicks. Made of heavy galvanized iron in three sizes:

No. 90—Four compartment, round Bottom

No. 9—Three compartment, round Bottom

No. 45—Two compartment, square Bottom

No. 45—FOR BABY CHICKS. Each, not postpaid, weight 1 lb.....\$0.50
No. 9—FOR GROWN BIRDS. Each, not postpaid, weight 3 lbs..... 1.00
No. 90—FOR GROWN BIRDS. Each, not postpaid, weight 4 lbs..... 1.25

MOE'S ROUND BABY CHICK FEEDERS

Pure food for the baby chicks. A great feed saver, as the little chicks cannot get into it and contaminate the feed. Cannot be upset. Can also be used for water or milk. This is a practical, well-made feeding device that will last for years. Manufactured in two sizes. No. 1—6 in. diameter, 8 feeding holes, 15c, postpaid
No. 2—8½ in. diameter, 12 feeding holes, 25c, postpaid

Cannot be mailed.

SANITARY STONE FOUNTAIN

These are strong and well finished; made in two pieces. They probably keep the water cooler than the galvanized fountains, but are heavier to handle and more liable to break.

Price—½ gal., 65c; 1 gal., 75c; 2 gal., \$1.25.

MOE'S ECLIPSE FEEDING TROUGHS

For chicks and growing stock. Accurate stampings. No seams, rivets or solder. Sliding top easy to fill and keep clean.

No. 27—Length 10 in.....Each \$0.30
No. 28—Length 20 in.....Each .45

ALUMINUM FEEDING TROUGHS

Excellent for feeding buttermilk, as the aluminum is not affected by the acids of sour milk and similar feeds. The same design as shown above, with sliding top. Easy to clean and will never rust.

No. 69—Length 10 in.....Each \$0.55
No. 70—Length 20 in.....Each .95

MOE'S DOUBLE FEEDING TROUGHS

Double trough, with sliding top, easily filled and cleaned. Accurately stamped with dies. No rough edges.

No. 58—Length 12 in.....Each \$0.45
No. 59—Length 18 in.....Each .60
No. 60—Length 24 in.....Each .70

MOE'S IMPROVED TOP FILL FOUNTAINS

Provides pure, fresh water at all times. The double wall construction retards freezing, and keeps water cool in summer. Fills from the top, easily cleaned and feeds automatically.

No. 1.....Each \$1.85
Capacity 1 gallon.
No. 2.....Each \$2.85
Capacity 2 gallons
No. 4.....Each \$3.50
Capacity 4 gallons

MASON JAR ROUND FOUNTAIN

Made of rust resisting metal; the finest fountain of its kind on the market. Made in one size only; fits any Mason fruit jar.

No. 142—Each, postpaid, 10c

STAR FOUNTAINS

No seams. No loose parts. Made of rust resisting metal. Fits any standard Mason Fruit Jar.

No. 32 Star Fountain,
Each 10c

WALL FOUNTAIN

No. 26—

Practical and convenient fountains. Heavy galvanized iron.

Capacity 1 gallon, with removable bottom so can be easily cleaned.

No. 26.....Each \$0.70

DROP BOTTOM FOUNTAIN

Drop Bottom, easy to fill and to clean. Has wire handle and may be hung on the wall out of the litter and dirt.

No. Cap. Each
40—2 Quarts\$1.00
41—1 Gallon 1.15
42—2 Gallons 1.55

Moe's Dixie Feeders

The deep half-round troughs have a turned-in flange to prevent waste. Easy to fill and clean.

The wire top guard keeps the chicks out, and is adjustable, so it can be raised as the chicks grow in size. Galvanized Steel:

No. 460—Length 18 in.....Each \$0.30
No. 462—Length 30 in.....Each .45

EARTHENWARE DISHES

Made especially for rabbits and small pets. Cannot tip over and the saving in feed soon pays for them.

Prices—6-inch15c
Prices—8-inch25c

By Parcels Post add 8 each for safe packing. Weight about 2 lbs.

"Guaranteed" Automatic Water Fountain

Is the BIGGEST LABOR SAVER on the farm. Especially designed for poultry, can be attached to any water line, tank or even a barrel. Is operated by the gravity pressure of the drinking pan, supplies fresh water to your fowls automatically. Price \$1.75 each.

SERVALL FLOAT FOUNTAIN

The above illustration shows two ways that the Servall fountain can be used.

Every part of this fountain is made of pure brass, also the float. The Watertite Valve is one of the good features of this fountain.

Made to fit standard 1/4-inch pipe.

This Servall Float Fountain will fill every requirement for STOCK water control such as is used on small dairies or a horse or cow, it has a running capacity of from 2 to 5 gallons of water per minute depending on the pressure.

The Servall Float Fountain will be prepaid to any address in the United States or Canada upon receipt of \$1.25.

IDEAL EGG BOX

This is an ideal box for handling retail egg trade, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in a very compact shape, and the prices which we name are extremely reasonable.

One dozen size, price per doz., 25c, postpaid; 100 for \$1.00 (not postpaid); 100 cartons when packed for shipping weight 14 lbs.

RABBIT DISHES

Moe's Feed and Water Dish

Made of galvanized iron. Rolled in top prevents wasting. Dish held to the floor of hutch by simple locking device, easy to remove for cleaning. Impossible for stock to tip over.

No. 46—Each25c

Gilt Edge Egg Scale

Simple in construction and easy to operate, graduating by the ounce per dozen. Is universally used. Price \$1.35, postpaid.

THE WHITE LINE EGG GRADER

is the most favored of any egg grader on the market first, because it is perfect in its balance and assures a Perfect grade, the swinging egg basket is a very attractive feature as the egg may be placed in the basket in any position and give you a correct weight. This grader weighs ten (10) grades, namely: 18, 19, 20, 21, 22, 23, 24, 25, 26 and 27 ounces to the dozen.

Price each, postpaid \$1.85

U. S. STANDARD EGG GRADER

is the outcome of many years of making egg graders. In placing this grader in the hands of poultry producers and packers, we do not hesitate to state that it is the quickest and most convenient egg grader obtainable—the combination of weights make the changing of grade instantaneous. They are made of Aluminum, Brass and Lead, weighs eight (8) grades, 18 to 25 ounces to the dozen.

Price, each, postpaid, \$3.00

SPIRAL CELLULOID LEG BANDS

No. 1—For Baby Chicks.

No. 2—For Leghorn Chickens.

No. 3—For Rhode Island Reds or Rocks.

No. 4—For Turkeys or Geese.

Durable, practical, economical. Provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will tell you the yearling hens and which are older, your different matings, and so on. Fine for baby chicks. Made in ten colors—Red, White, Pink, Amber, Light and Dark Blue, Black, Purple, Green and Garnet. Do not fade and weather-proof.

Order by number—state color wanted.

12 bands.....	\$0.15
25 bands.....	.25
50 bands.....	.40
100 bands.....	.65
500 bands.....	3.00
1000 bands.....	5.00

Postpaid.

Mark Your Baby Chicks

25c

No. 38—A popular and practical punch. Makes a clean perforation. Each 25c.

50c

No. 39—Moe's Ideal Punch. Works easily, cuts clean, and does not bruise the foot. Length $3\frac{1}{2}$ inches. Nickel plated. Each 50c.

RELIABLE SPRING LEVER POULTRY PUNCH

Reliable Spring Lever Poultry Punch to mark the web of chickens' feet to keep a record. 25c each.

DON SUNG MAKES HENS LAY

Eggs will undoubtedly be higher in price this year than ever before. If you can keep your hens laying, this is your opportunity to make money. Don Sung (Chinese for egg laying) is a new scientific discovery for hens that stimulates the egg-laying organs and makes the hen healthy, strong and vigorous. It is used by thousands of successful poultry raisers the world over.

Price, 50c; large size (holds 3 times the 50c size), \$1.00; special size (holds 6 times the \$1.00 size), \$5.00.

Powdered Don Sung—as follows: 3 pounds, \$5; 10 pounds, \$10; 25 pounds, \$20; 50 pounds, \$35; and 100 pounds, \$65.

Moe's Aluminum Leg Bands

No. 130—Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Quickly applied.

Pkg. of.....	12	25	50	100	500	1000
Price	.15	.25	.45	.75	3.50	6.00

STIM-U-PLANT

An All the Year Fertilizer
For Garden and House Plants

CARBOLA—Is infinitely superior to lime, which loses what slight disinfecting qualities it ever had when exposed to the air. Very much better than kalsomining or whitewash because it paints just as clean and bright a white, but will not chip, scale or peel off. Can be applied with either sprayer or brush.

By mail postpaid, 5-lb. pkg. 75c; 10-lb. pkg. \$1.50

BIRD SEED

SELECT—RECLEANED

	Price
Canary Seed, per lb., postpaid.....	\$0.15
Rape Seed, per lb., postpaid.....	.15
Hemp Seed, per lb., postpaid.....	.15
Flax Seed, per lb., postpaid.....	.15
Millet Seed, per lb., postpaid.....	.15
Sunflower Seed, per lb., postpaid.....	.20
Maw Seed, per lb., postpaid.....	.50
Lettuce Seed, per $\frac{1}{4}$ -lb., postpaid.....	.10
Cattle Bone, each, postpaid.....	.05
Mixed Bird Seed, lb., 15c; 5 lbs. 60c, postpaid.....	

GARDEN BOOKS

**Written by experts; concise and to the point;
splendidly illustrated, well printed and well bound**

1001 Garden Questions Answered. By Prof. Alfred C. Hottes. Everyone should have a copy of this book for quick reference to the solution of troubles experienced in the flower, vegetable and fruit garden. 293 pages; copiously illustrated. Paper cover, \$1.50; cloth cover, \$2.00.

Bulbs That Bloom in the Spring. By T. A. Weston. Affords all the information the home gardener requires, not only as regards the culture and flowering of newly purchased bulbs, but also in the harvesting and ripening of such bulbs as are planted in the Fall for Spring display. 144 pages, 8 full color pages and 52 full page halftones. Paper, \$1.50; cloth cover, \$2.00.

A Little Book of Modern Dahlia Culture. By W. H. Waite. There are plenty of books one might like to own, but this one is practically insurance for Dahlia success. Brief, clear, complete. 126 pages. \$1.50.

A Little Book of Annuals. By Prof. Alfred C. Hottes. A reliable guide through the season of annual bloom. 116 pages, 52 halftones. Paper cover, \$1.00; cloth cover, \$1.50.

A Little Book of Perennials. By Prof. Alfred C. Hottes. Devoted to the general principles of growing, using, selecting and propagating perennials, followed by a number of comprehensive lists of perennials suited for different locations and purposes. 200 pages, well illustrated. Paper cover, \$1.00; cloth cover, \$1.50.

Garden Cinderellas: How to Grow Lilies in the Garden. By Helen M. Fox. This is the best and the only complete American lily book for the home garden maker. Gives the native home, flower and foliage characteristics, season of bloom, propagation methods, and culture of every known lily. Full of practical and valuable hints for garden practice and new ideas for indoor and outdoor use of these beautiful flowers. Illustrated with color plates and numerous halftones, 280 pages, \$5.00.

Practical Plant Propagation. By Prof. Alfred C. Hottes. Describes the various modes of propagating indoor and outdoor plants, trees, shrubs and herbaceous perennials. 224 pages; 75 illustrations. \$2.00.

Practical Landscape Gardening. By Robt. B. Cridland. Takes up all the elements that enter into the beautifying of properties. There are stacks of books on landscape gardening, but we much doubt whether any of them are as clear and concise as this popular volume. 276 pages, 91 halftone illustrations, 67 sketches and 73 plans. \$2.50.

The Book of Bulbs. By F. F. Rockwell. We can recommend this as the most complete and practical book on bulbs for American conditions. Pictures and text show and tell just how to make the most from bulbs in your garden, both outdoors and inside the home. In addition to the more widely-grown bulbs, the book introduces others not so well-known that will bring new beauty to your garden and new pleasure to your gardening. Illustrated, 264 pages, \$3.00.

The Woman's Flower Garden. By Jane Leslie Kift. Covers the care of flowers and plants in the home and their cultivation in the garden. The person with only a plant or a vine or two, the one with a wee garden attached to some window ledge far above the roar of the city traffic, or the owner of a suburban garden have all been kept in mind by the author. 160 pages, pleasing rose-colored cover on stiff boards. \$1.00.

Principles of Flower Arrangement. By Prof. Edw. A. White. Deals with the principles which underlie the art of flower arrangement with reference to form, color harmony, etc., making clear what a balanced composition really is. A book for the hostess, the social leader and all women who delight in displaying flowers to their fullest beauty. 225 pages, 6 full page color illustrations. \$3.00.

Rock Gardens. By F. F. Rockwell. In a small space—or a large one—you can build a rock garden that will be a continual beauty spot through all the growing seasons. This practical book shows just how to go about constructing one of these gardens at small cost and for the greatest enjoyment. Describes different types of rockeries, tells what soil, climate, and location is needed, how to construct, and what plants to use. Illustrated, 90 pages, \$1.00.

Shrubs. By F. F. Rockwell. Here is brief but complete and usable information on the best ways to improve the beauty and value of your home with shrubs. Tells what to use for different combinations and effects, and how to plant, water, mulch, prune and care for shrubs. Illustrated, 76 pages, \$1.00.

Evergreens for the Small Place. By F. F. Rockwell. All the information you need to make the most of evergreens about your home is in this handy book, written by one who is himself a home owner and a garden maker of long experience. It tells the uses, characteristics, and types of small or dwarf evergreens, and details of their planting, transplanting, and general care. Illustrated, 90 pages, \$1.00.

And many others. Send for booklet on books as space will not permit listing more.

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

Distance, Inches.	Plants.	Distance, Inches.	Plants.	Distance, Feet.	Plants.	Distance, Feet.	Plants.
1x 1	6,272,640	10x48	13068	4x 5	2178	9x10	484
1x 3	2,090,880	15x15	27878	4x 6	1815	9x11	440
1x 4	1,568,160	15x30	13939	4x 7	1556	9x12	403
1x 5	1,254,528	15x36	11616	5x 5	1742	10x10	435
2x 2	1,568,160	18x36	9680	5x 6	1452	10x12	363
2x 3	1,045,440	18x48	7260	5x 7	1244	10x15	290
2x 4	784,080			5x 8	1089	10x18	242
		Feet.					
2x 5	627,264			5x 9	968	10x20	217
3x 3	696,960	1x 1	43560	6x 9	1210	12x12	302
3x 4	522,720	1x 2	21780	6x 7	1037	12x15	242
3x 5	418,176	1x 3	14520	6x 8	907	12x20	181
4x 4	392,040	1x 4	10890	6x 9	806	15x15	193
4x 5	313,632	1x 5	8712	6x10	726	15x18	161
5x 5	250,905	2x 2	10890	7x 7	888	15x20	145
6x 6	174,240	2x 3	7260	7x 8	777	18x18	134
7x 7	128,012	2x 4	5445	7x 9	691	18x20	121
8x 8	98,010	2x 5	4356	7x10	622	18x24	100
9x 9	77,440	3x 3	4840	8x 8	680	20x20	108
10x10	62,726	3x 4	3630	8x 9	605	20x24	90
10x20	31,363	3x 5	2904	8x10	544	20x30	72
10x24	26,136	3x 6	2420	8x11	495	30x24	60
10x30	20,908	3x 7	2074	8x12	453	30x30	48
10x36	16,424	4x 4	2722	9x 9	537	30x36	40

NUMBER OF PLANTS TO ACRE
SET AT REGULAR DISTANCES APART

DISTANCE APART	No. Plants
1 ft. by 6 in.	87,120
2 ft. by 6 in.	43,560
2 ft. by 12 in.	26,780
2 ft. by 18 in.	14,520
2½ ft. by 12 in.	17,420
2½ ft. by 18 in.	11,616
2½ ft. by 2 ft.	8,712
3 ft. by 1 ft.	14,520
3 ft. by 1½ ft.	9,924
3 ft. by 2 ft.	7,260
3 ft. by 3 ft.	4,840
4 ft. by 1 ft.	10,890
4 ft. by 2 ft.	5,445
4 ft. by 3 ft.	3,630
4 ft. by 4 ft.	2,722
5 ft. by 1 ft.	8,712
5 ft. by 2 ft.	4,856
5 ft. by 3 ft.	3,904
5 ft. by 4 ft.	2,178
5 ft. by 5 ft.	1,742
6 ft. by 3 ft.	2,420
6 ft. by 4 ft.	1,815
6 ft. by 6 ft.	1,200

DISTANCE APART	No. Plants
7 ft. by 7 ft.	888
8 ft. by 8 ft.	680
9 ft. by 9 ft.	537
10 ft. by 10 ft.	435
12 ft. by 12 ft.	360
12 ft. by 14 ft.	302
14 ft. by 14 ft.	222
15 ft. by 15 ft.	193
16 ft. by 16 ft.	150
17 ft. by 17 ft.	170
18 ft. by 18 ft.	150
19 ft. by 19 ft.	134
20 ft. by 20 ft.	108
25 ft. by 25 ft.	69
30 ft. by 30 ft.	48
33 ft. by 33 ft.	40
40 ft. by 40 ft.	27
50 ft. by 50 ft.	12
60 ft. by 60 ft.	7
66 ft. by 66 ft.	10

Rule.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

MATURITY TABLE

	No. of Days.		No. of Days.
Beans	40 to 90	Mangel Wurzels	140 to 150
Beets	50 to 100	Okra	90 to 100
Cabbages	80 to 120	Onions for green	60 to 70
Cauliflowers	100 to 120	Onions for storage	120 to 160
Carrots	60 to 100	Parsnips	120 to 140
Celery	120 to 140	Peas	50 to 100
Sweet Corn, table use	65 to 80	Peppers	120 to 140
Cucumbers	45 to 60	Pumpkins	100 to 120
Egg Plants	140 to 150	Salsify	120 to 160
Endives	50 to 70	Spinach	30 to 40
Kale	100 to 180	Squash, Summer	55 to 60
Kohl Rabi	80 to 90	Squash, Winter	100 to 125
Lettuce	40 to 65	Tomatoes	90 to 110
Melons	75 to 90	Turnips	45 to 90

QUANTITY OF SEED TO PRODUCE A GIVEN NUMBER OF PLANTS AND SOW AN ACRE.

Quantity per acre.

Artichoke, 1 oz. to 500 plants.....	6 oz.
Asparagus, 1 oz. to 800 plants.....	1 lb.
Asparagus Roots.....	1000 to 7250
Barley	2½ bu.
Beans, dwarf, 1 pint to 100 ft. of drill.....	1 bu.
Beans, pole, 1 pint to 100 hills.....	½ bu.
Beet, garden, 1 oz. to 100 ft. of drill.....	7 lbs.
Beet, Mangel, 1 oz. to 100 ft. of drill.....	5 lbs.
Broccoli, 1 oz. to 5000 plants.....	2 ozs.
Brussels Sprouts, 1 oz. to 5000 plants.....	2 oz.
Buckwheat	½ bu.
Cabbage, 1 oz. to 5000 plants.....	2 oz.
Carrot, ¼ oz. to 100 ft. of drill.....	2½ lbs.
Cauliflower, 1 oz. to 5000 plants.....	2½ oz.
Celery, 1 oz. to 15,000 plants.....	2 oz.
Chicory	4 lbs.
Clover, Alsike and White Dutch.....	6 lbs.
Clover, Lucerne	15 to 25 lbs.
Clover, Crimson Trefoil	10 to 15 lbs.
Clover, Large Red and Medium.....	8 to 12 lbs.
Collards, 1 oz. to 5000 plants.....	2 oz.
Corn, rice (shelled)	2 qts.
Corn, sweet, ¼ pint to 100 hills.....	6 qts.
Cress, ¼ oz. to 100 ft. of drill.....	12 lbs.
Cucumber, 1 oz. to 100 hills.....	1 to 3 lbs.
Egg Plant, 1 oz. to 2000 plants.....	4 oz.
Endive, ¼ oz. to 100 ft. of drill.....	4½ lbs.
Flax, broadcast	½ bu.
Garlic, bulbs, 1 lb to 10 ft. of drill.....	
Gourd, 2 oz. to 100 hills.....	
Grass, Blue, Kentucky	2 bu.
Grass, Blue, English	1 bu.
Grass, Hungarian and Millet	½ bu.
Grass, Mixed Lawn	3 to 5 bu.
Grass, Red Top, Fancy Clean.....	8 to 10 lbs.
Grass, Red Top, in Chaff	20 to 28 lbs.
Grass, Timothy	¼ bu.
Grass, Orchard, Perennial Rye, Fowl Meadow and Wood Meadow	2 bu.

AVERAGE TIME REQUIRED FOR SEEDS TO SPROUT

Bean	5-10 days
Beet	7-10 "
Cabbage	5-10 "
Carrot	12-18 "
Cauliflower	5-10 "
Celery	10-20 "
Corn	5- 8 "
Cucumber	6-10 "
Lettuce	6- 8 "
Onion	7-10 "
Pea	6-10 "
Parsnip	10-20 "
Pepper	9-14 "
Radish	3- 6 "
Tomato	6-12 "
Turnip	4- 8 "

Plant radishes with slow growing vegetables to mark the rows for cultivation.

DISTANCES FOR PLANTING TREES:

(In planting trees the greater distance should be given on the richer soils.)

Apples	20 to 30 feet each way
Pears (Standard)	20 to 25 feet each way
Pears (Dwarf)	12 to 15 feet each way
Quinces	15 to feet each way
Peaches	18 to 24 feet each way
Plums	15 to 20 feet each way
Cherries	15 to 20 feet each way
Blackberries	6x4
Raspberries	6x3
Currants	5x3
Gooseberries	5x3
Strawberries (Hills)	36 by 18 inches
Strawberries (Matted rows)	48 by 12 inches
Grapes	8x8 to 10x12

USUAL DISTANCES FOR PLANTING VEGETABLES—(Bailey)

Asparagus, rows 3 to 4 feet apart, 1 to 2 feet apart in rows.	
Beans, bush, 2 to 3 feet apart, 1 foot apart in rows.	
Beans, pole, 3 to 4 feet each way.	
Beets, early, in drills 12 to 18 inches apart.	
Beets, late, in drills 2 to 3 feet apart.	
Cabbage, early, 16x28 inches to 18x30 inches.	
Cabbage, late, 2x3 feet to 2½x3½ feet.	
Carrots, in drills 1 to 2 feet apart.	
Cauliflower, 2x2 feet to 2x3 feet apart.	
Celery, rows 3 to 4 feet apart, 6 to 9 inches in row.	
Corn, sweet, rows 3 to 3½ feet apart, 9 inches to 2 feet in rows.	
Cucumber, 4 to 5 feet each way.	
Egg-plant, 3x3 feet.	
Lettuce, 1x1½ feet or 2 feet.	
Melon, Musk, 5 to 6 feet each way.	
Melon, Water, 7 to 8 feet each way.	
Onions, in drills from 14 to 20 inches apart.	
Parsnips, in drills 18 inches to 3 feet apart.	
Peas, in drills early kinds, usually in double rows from 6 to 9 inches apart, late, in single rows 2 to 3 feet apart.	
Pepper, 15 to 18 inches by 2 to 2½ feet.	
Potatoes, 10 to 18 inches by 2½ to 3 feet.	
Pumpkins, 8 to 10 feet each way.	
Radish, in drills 10 to 18 inches apart.	
Rhubarb, 2 to 4 feet by 4 feet.	
Salsify, in drills 1½ to 2 feet apart.	
Spinach, in drills 12 to 18 inches apart.	
Squash, 3 to 4 feet by 4 feet.	
Sweet Potatoes, 2 feet by 3 to 4 feet.	
Tomato, 4 feet by 4 to 5 feet.	
Turnip, in drills 1½ to 2½ feet apart.	

GRAIN AND FORAGE CROPS

	Pounds per acre	Weight per bu.		Pounds per acre	Weight per bu.
Alfalfa	15-25	60	Oats for grain	50-60	32
Barley, for grain	100	48	Oats for forage	100	32
Barley, for forage	140	48	Peas, Field, Broadcast	150-160	60
Beans, Soy or Soja	60-75	60	Peas with Oats	90-100	60
Buckwheat	50-75	48	Rye for grain	60-75	56
Clover, Alsike	6-8	60	Rye for forage	80-100	56
Clover, Crimson	15-20	60	Rape, Dwarf Essex, in drills	4-6	50
Clover, Mammoth Red	10-12	60	Rape, Dwarf Essex, broadcast	8-10	50
Clover, Medium Red	10-12	60	Sudan Grass, in drills	4-6	40
Clover, White Sweet	20	60	Sudan Grass, broadcast	18-20	40
Corn, Flint for grain	15	56	Vetch, Spring, with one bushel small grain	40-60	60
Corn, Dent for silage	20-30	56	Vetch, Winter or Hairy, with one bushel small grain	40-60	60
Millet, Golden	50	50	Wheat	90-120	60
Millet, Hungarian	50	48			
Millet, Japanese	15-25	35			

GRASS SEEDS

	Pounds per acre	Weight per bu.		Pounds per acre	Weight per bu.
Awnless Brome	18-25	14	Rye Grass, Italian	60	22
Blue Grass, Canada	30-35	14	Rye Grass, Pacey's	50	28
Blue Grass, Kentucky	20-25	14	Red Top, Reclenand seed, Worcester Brand	40-50	36
Creeping Bent	50	14	Red Top, Unhulled seed	70	14
Crested Dogtail	30	28	Rhode Island Bent	20-40	14
Fescue, Hard	30	16	Rough Stalk Meadow	30-35	28
Fescue, Meadow	24	16	Sweet Vernal, use only in mixture.		
Fescue, Red or Creeping	30	16	Tall Meadow Oat	45	12
Fescue, Sheep's	40	16	Timothy	12-25	45
Fescue, Various Leaved	20-25	15	Lawn Seed Mixture, Shady Spot	100-125	20
Meadow Foxtail	30	8	Lawn Seed Mixture, Worcester Brand	100-125	25
Orchard Grass	20-25	14	Wood Meadow	25-30	19
Rye Grass, English	50	28			

ALL YEAR TREATMENT AGAINST INSECTS AND DISEASE ENEMIES OF GARDEN AND GROVE

VEGETABLES

Asparagus Rust—Spray with Dry Lime Sulphur or Fungi Bordo. Use according to directions on package.

Cut Worms—Mix 1 lb. Paris Green in 10 lbs. of bran. Add one quart black strap molasses and two lemons chopped fine. Mix the whole to a crumbly mass and scatter in the field.

Grass Hoppers—Same as for cut worms.

Mildew on Peas—Spray with Fungi Bordo. Follow directions on the package.

Potato Diseases—For scab and other fungi on potatoes, dip the tubers in a solution of one pint formaldehyde and 25 gallons of water allowing them to soak two hours.

FORMULA FOR CUTWORM AND GRASS- HOPPER POISON FOR FIVE ACRES

Paris Green (or white arsenic) 1 lb.
Molasses (cheap blackstrap preferably) 2 qts.
Lemons (or oranges) ½ doz.
Water 4 gals.
Bran (or alfalfa meal) 25 lbs.
Grind lemons with meat grinder; mix all ingredients

thoroughly. Spread thinly to avoid danger to livestock. Best spread in the late afternoon.

Tomato Worms—Pick off by hand or before fruit is half grown. Spray with Arsenate of Lead solution three to four level tablespoonfuls to one gallon of water.

Tomato Blight—Spray with Fungi Bordo, using according to directions on the package.

Slugs—Dust with Hammond's Slug Shot or Snarol.

Melon Blight—Spray the hill freely with Fungi Bordo so that the liquid will follow the stem several inches below the surface. This should be done as a precaution as well as for a remedy.

Climbing Insects—To prevent ants and other insects from entering trees, apply Tree Tanglefoot.

HOW TO KILL WEEDS IN LAWNS

Mix 1½ pounds Sulphate of Ammonia, ½ pound Iron Sulphate, and 12 pounds plain sand. Mix well and distribute evenly over the entire lawn. It gives the best results if the grass is cut a few hours before applying so that the weeds will be exposed to the action of the chemicals. Results are the best on a hot bright day.

PREPARATION AND CARE OF THE VEGETABLE GARDEN

Prepare the Soil. To get good results the soil should be thoroughly drained; if low and wet put in a tile drain; it will pay. Cover the ground with well-rotted barnyard manure, a good covering of sheep manure, or a high-grade commercial fertilizer. This lightens the soil, increasing its power to hold water. Rake in a thin coating of hydrated lime (in fall or spring) on soils that crack when drying. It improves the physical condition of the soil, increases growth and healthfulness of crops.

Dig or plow the ground deeply (8 to 10 inches) without disturbing the subsoil, and have all of this loose ground thoroughly pulverized, then when ready to plant or sow, rake the surface with a Planet Jr. Star Pulverizer or with an iron rake, making it as fine and level as possible.

Preparation of the soil takes time and labor, but pays in the end, as it makes the sowing and cultivating easier and will give you larger and better crops.

Sowing. Radishes, onions, lettuce and other small seeds should be sown very shallow, not over ½ inch deep, larger seeds about 1 inch deep. Peas and beans 1 or 2 inches deep. In dry, hot weather sow and press down the soil 1 inch deeper than in wet weather.

Planting. Set out tomato, pepper, eggplants, etc., as soon as all danger of frost is past. Showery weather is best for this work or late in the afternoon to avoid the effects of the hot sun immediately after planting. Keep the plants thoroughly watered for a few days, and, where possible, keep shaded for two or three days until the plants take root.

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BUTZER'S SEEDS

*The kind that grow
You can't keep them
in the ground*

J.J. BUTZER

186 FIRST ST.

PORTLAND, ORE.