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# McCULLOUGH'S

ESTABLISHED  
1838

SEED  
CATALOGUE  
AND  
AMATEUR'S GUIDE

INCORPORATED 1804



THE

J.M. McCULLOUGH'S  
SONS  
CO.

316 WALNUT ST.  
CINCINNATI, OHIO.

1911

With this issue of our annual Catalogue and Amateurs' Guide we enter upon our 73rd year since the founding of our business by the late Mr. J. M. McCullough.

We believe that a perusal of this catalogue will convince you that in keeping abreast of the times we have introduced several distinctive features and in a conservative manner have confined ourselves strictly to well-established facts in connection with every article described, carefully eliminating all extravagant phrases that might tend to mislead.

Our President, Mr. Albert McCullough, devotes his entire time and energies to the general management of our business, ably assisted by a competent force of department managers whose experiences and knowledge of the business have been developed and matured under his personal supervision during the past 41 years, thus presenting to the purchasing public a combination embracing every safeguard such as is rarely encountered in a business of any character.

REMEMBER OUR MOTTO **QUALITY, QUANTITY, PRICE,** MAINTAINED FOR 72 YEARS.

## INSTRUCTIONS TO PURCHASERS.

**ALL SEEDS IN PACKETS, OUNCES and QUARTER POUNDS only** are sent free by Mail at prices quoted; **Half-pounds, Pounds, Pints, Quarts** and larger quantities, if to be sent by Mail, postage must be added to the price quoted at the rate of ten cents per pound and sixteen cents per quart.

**Order Early.**—It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received, but during the busy season it is nearly impossible—hence the advisability of ordering early.

**Send the money with the order.**—Postal Note, Post-office Order, Registered Letter, Express Money Order or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

**We do not send C. O. D.**—Everything being plainly priced, the return charges on money is an unnecessary expense.

**Should you change your address,** we will esteem it a favor if you will notify us, so we can forward our Catalogue with regularity; if you receive two Catalogues of the same kind, please hand one to some friend who has a garden.

**Should an error occur,** we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

**Write your Name and Address distinctly and in full;** please use the Order Sheet and Envelope inserted in this Catalogue.

**We shall always be pleased to reward customers** who send us the name and post-office address of their friends who will buy Seeds, Plants, Bulbs, etc.

**About Warranting Seeds.**—We have often been asked if we "**guarantee or warrant our Seeds.**" We beg to state plainly we do not, for the reason that practical experience has assured us of the fact that crops may fail, no matter how fresh or pure the seed sown may be. We trust that our customers will fully realize that it is to **our interest to send none but the very best quality of seed.** It would be folly to do otherwise, unless we wanted to sacrifice our good reputation for selling **Reliable Seeds,** which we are constantly striving to extend.

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

To secure success, however, it is necessary that the customer should do his part well, or our good seeds will be ruined. With the best of management and with good seeds there will be an occasional unaccountable failure. The best of gardeners sometimes fail, and try again with the same seed with good results.



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

{ ALBERT McCULLOUGH, Pres. }  
{ H. B. McCULLOUGH, Sec'y. }

{ Established 1838. }  
{ Incorporated 1904. }

Salesrooms and Offices, No. 316 Walnut Street,

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CINCINNATI, OHIO.



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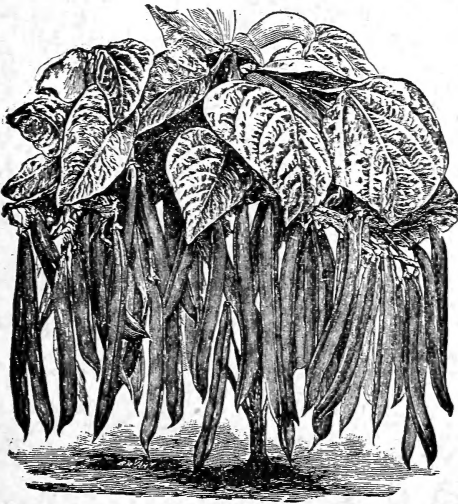
# The J. M. McCullough's Sons Co.

SELECTION OF NOVELTIES AND  
SORTS OF MERIT IN

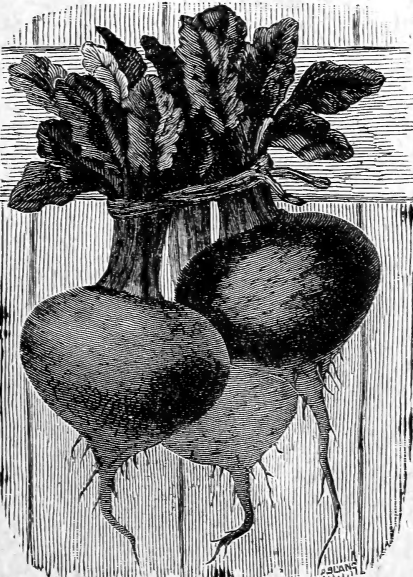
## Vegetable and Flower Seeds.



Round Pod Kidney Wax.



Norwood Giant Stringless Green Pod.



Arlington Beet.

In this selection we offer only those varieties that we feel assured will give perfect satisfaction, both in appearance and quality in the home garden, while commanding highest prices for market purposes.

**ROUND-POD KIDNEY WAX BEAN.** Have never been known to rust. This is singular, as most all Wax Podded Beans will do so at times. It is tender, delicious and almost stringless. Pods of a rich golden color, often 7 inches in length. Don't fail to try it.

Per pkt., 5c; pt., 15c; qt., 30c; pk., \$2.00

**NORWOOD GIANT STRINGLESS BEAN.** This variety is superior to any other green podded bean grown. It is positively stringless, and ripens a week earlier than the Valentine. The pods, which are produced in abundance on the vines, are long and fleshy, perfectly round, meaty and finest quality.

Per pkt., 5c; pt., 15c; qt., 30c; pk., \$2.00

**OHIO WAX POLE BEAN.** Large podded variety, usually 7 inches or more in length, and are so fleshy that they are frequently greater in width than breadth. They are solidly meaty, entirely stringless, and when cooked deliciously rich and buttery. It commences to bear when scarcely higher than the bush variety, and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious beans, almost a solid mass of pods from bottom to top. The finest Wax Pole Bean.

5c pkt.; 15c pt.; 25c qt.; \$1.75 pk.

**ARLINGTON BEET.** A dark-leaved early blood variety, closely following Eclipse in maturing, but of much darker color and superior quality. An excellent Beet for market gardeners.

5c pkt.; 10c oz.; 25c 1/2 lb.; 75c lb.

**CRIMSON GLOBE BEET.** A handsome, early or main-crop variety, of medium size, almost globe-shaped and entirely free from rootlets. The roots average 10 inches in circumference, the foliage is small and of a rich bronzy purple. The flesh is a rich blood-red, slightly zoned, and of finest quality, always sweet and tender, never stringy.

5c pkt.; 10c oz.; 25c 1/2 lb.; 75c lb.

**FIREBALL BEET.** A new and distinct extra early Turnip-rooted variety of the finest table quality. The flesh is solid, crisp and sweet, and of a brilliant fiery red color. It is perfectly globular in form, with smooth skin, a tiny tap root, and very slender leaf stalks. For this reason it is especially adapted for early forcing, but it can be sown with equal success in the open ground. It is as early as the earliest, but holds its good qualities longer.

5c pkt.; 15c oz.; 50c 1/2 lb.; \$1.00 lb

**IMPROVED RUBICON CARROT.** This is a beautiful half-long Carrot. Grows about same length as the Danvers, but thicker, and a rich, dark orange color. It is an enormous cropper and splendid variety for the market gardener.

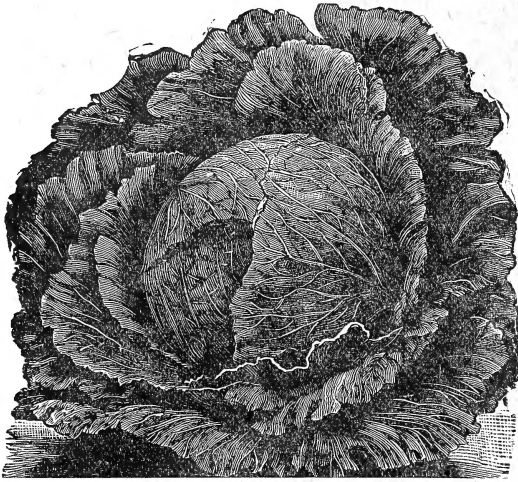
5c pkt.; 10c oz.; 25c 1/2 lb.; 75c lb.

**PREMO SUGAR CORN.** The best extra early variety. It can be planted early, as the young plants will withstand slight frosts. The stalks are strong and vigorous, growing about 5 feet in height, bearing one or two fine ears to a stalk. The ears are large for so early a variety. The grains are of medium size, well filled to each end of the ear, and of a fine sweet flavor.

5c pkt.; 15c pt.; 25c qt.; \$1.00 pk.



Ohio Wax Pole Bean.



**Glory of Enkhuizen Cabbage.**

**GLORY OF ENKHUIZEN CABBAGE.** One of the earliest with large solid heads, fine ribbed and first quality. The globe-shaped outer leaves are very small, which admits of close planting. A money-maker for market gardeners.  
5c pkt.; 25c oz.; 75c  $\frac{1}{4}$  lb.; \$2.50 lb.

**VOLGA CABBAGE.** Fully two weeks earlier than any of the late sorts; every plant produces a large, solid, perfect head, and the flesh is exceedingly firm, tender and white.  
5c pkt.; 25c oz.; 75c  $\frac{1}{4}$  lb.; \$2.75 lb.

**MCCULLOUGH'S EARLIEST DWARF ERFURT CAULIFLOWER.** This has become very popular; market gardeners grow it entirely, having discarded the older varieties, as they find our strains the surest heading. On account of its dwarf and compact habit, the plants may be set out 22 inches each way, so that 12,000 can be planted on an acre. For pickling it is the standard. The compact and solid texture of the snow-white heads, combined with the delicious flavor, surpasses all.

25c pkt.; \$1.25  $\frac{1}{4}$  oz.; \$4.00 oz.

**DANISH GIANT CAULIFLOWER.** A large heavy sort, maturing soon after our Earliest Dwarf Erfurt. It is without exception the best and surest heading of all for summer use...20c pkt.; 90c  $\frac{1}{4}$  oz.; \$3.00 oz.

**MCCULLOUGH'S PARIS GOLDEN YELLOW CELERY.** The best Celery for early use. Its rich, golden-yellow color, close habit and compact growth, and, greater than all, the readiness with which it is bleached and rendered marketable, makes it invaluable to the gardener and exceedingly popular with every planter. The entire stalk is solid and crisp. 5c pkt.; 40c oz.; \$1.50  $\frac{1}{4}$  lb.

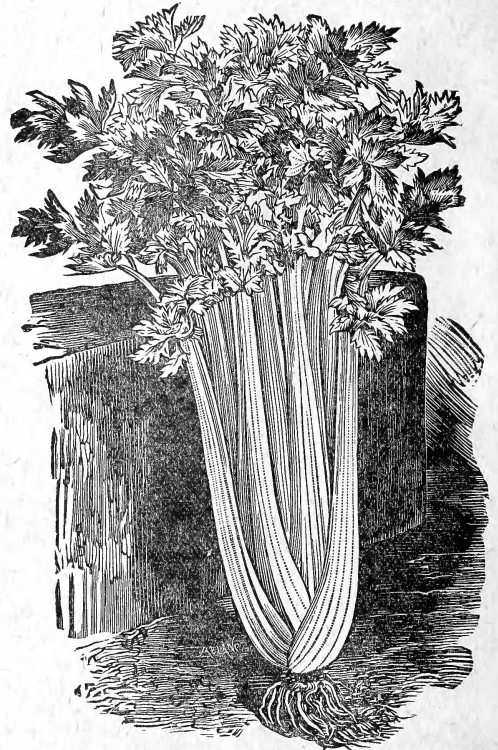
**MCCULLOUGH'S SPECIAL CUCUMBER.** An excellent Cucumber for both forcing and out-door use. The fruits grow 11 to 15 inches long, slim, slightly pointed, a dark, glossy green color, which they keep until ripe. In quality it is very tender, brittle and of fine flavor. A vigorous grower, withstanding blight better than other long sorts.

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

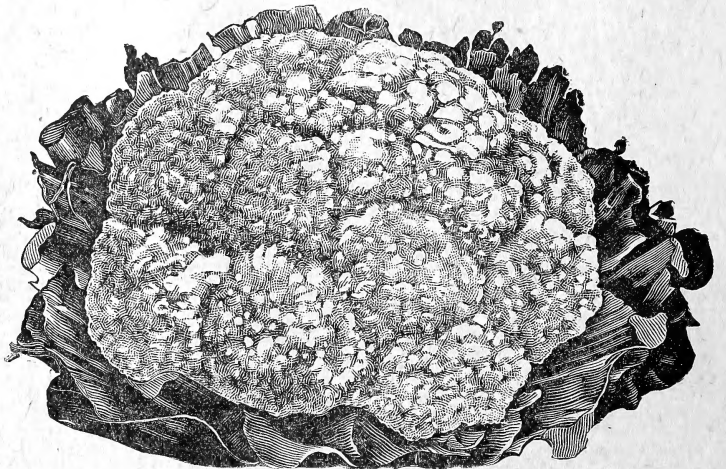
**DAVIS PERFECT CUCUMBER.** Splendidly adapted for growing either under glass or in the garden. In color, a dark, glossy green; shape, slim and symmetrical, with an average length of 10 to 12 inches. They are as early as the earliest strain of White Spine. On account of their being such strong growers they are able to resist the cucumber disease, which works destruction among so many of the best forcing varieties.

5c pkt.; 20c oz.; 40c  $\frac{1}{4}$  lb.; \$1.25 lb.

**OHIO WHITE SPINE CUCUMBER.** This is the best strain of extra early White Spine for the market gardeners' out-door growing. It is hardy and an excellent shipper. It is extensively grown in the South for shipping North, early in the season. Fruit grows 7 to 10 inches long, of a deep green color, and full at both ends..... 5c pkt.; 10c oz.; 30c  $\frac{1}{4}$  lb.; \$1.00 lb.



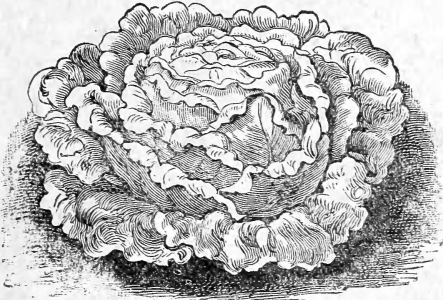
**Paris Golden Yellow.**



**McCullough's Earliest Erfurt Dwarf Cauliflower.**



**Davis Perfect Cucumber.**



**Bon Ton Lettuce.**

**MAY KING LETTUCE.** A very early and extra fine variety for spring and fall use in the open garden; also for growing in cold frames during the winter months. The heads are 6 to 7 inches in diameter, with the light green outer leaves folding closely about the round, solid heads. The inner leaves are blanched to a golden yellow, and have a fine rich buttery flavor. We recommend repeated plantings in the spring and fall.....5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

**PAUL ROSE MUSK MELON.** Cross between the old Netted Gem and Miller's Cream and combines the good qualities of both. The fruit grows uniform. It is a heavy cropper, the vines are healthy and robust. The flesh is salmon colored, very deep and of fine melting character, with thin tough rind and small seed cavity. The flavor is excellent, sweet and rich. ....5c pkt.; 15c oz.; 45c ¼ lb.; \$1.50 lb.

**ROCKY FORD MUSK MELON.** A variety extensively grown in Colorado. The reasons for the widespread popularity of these melons are their superb table and wonderful shipping qualities, which enables them to be carried great distances, and yet arrive in first-class condition for market. The fruit is of medium size, oval shaped, heavily netted and very solid. The flesh is green, thick and juicy. It is early and wonderfully productive.

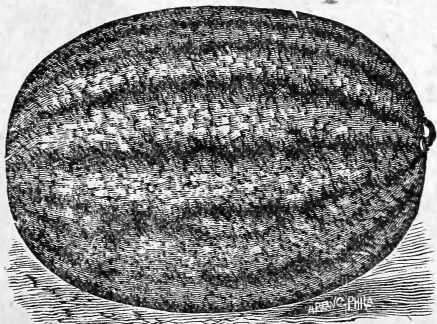
5c pkt.; 10c oz.; 25c ¼ lb.; 80 c lb.

**TIP-TOP MUSK MELON.** A yellow-finished melon of handsome appearance and excellent quality. Strong grower and heavy yielder.

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

**HALBERT HONEY WATERMELON.** The finest of all Watermelons for the home garden and for the local markets. The vines are of strong vigorous growth and set fruits very freely—four or five fine large melons are frequently seen clustered closely together. The melons average eighteen to twenty inches long and are full or bluntly rounded at both ends. The skin is a dark glossy green. The flesh is a beautiful crimson. Will outsell any other variety and frequently brings double the price of other sorts. Will not stand shipping long distances.

5c pkt.; 10c oz.; 25c ¼ lb.; 80c lb.



**Wonderful Watermelon**

**WONDERFUL WATERMELON.** Without a single exception, this is the sweetest Watermelon of all. The melons attain a great weight very handsome appearance, never crack or lose their fine flavor in the wettest season. A very productive and hardy variety, and one that will take the lead wherever known.....5c pkt.; 10c oz.; 20c ¼ lb.; 60c lb.

**GRADUS PEAS.** The finest extra early Pea; it is in condition to pick about four days after our Maud S. Will yield an abundant supply of the most delicious, large wrinkled peas much EARLIER than other wrinkled varieties. The vine has heavy stems, with large dark-green leaves. It produces uniformly large pods, measuring four to four and one-half inches long, nearly round, and well-filled with large, handsome peas; two and one-half feet.....5c pkt.; 20c pt.; 40c qt.; \$3.00 pk.

**PROLIFIC EARLY MARKET PEAS.** The longest podded, more peas in pod, and larger number of pods to the vine than any other extra early. It blooms two days later than Maud S., and in the development of pods suitable for picking about three or four days later; it will yield 30 to 50 per cent more than any other strain of Extra Earlys. A desirable Pea for the market gardeners, as their larger size, and the fine quality will make them a general favorite. ....5c pkt.; 20c pt.; 40c qt.; \$2.50 pk.

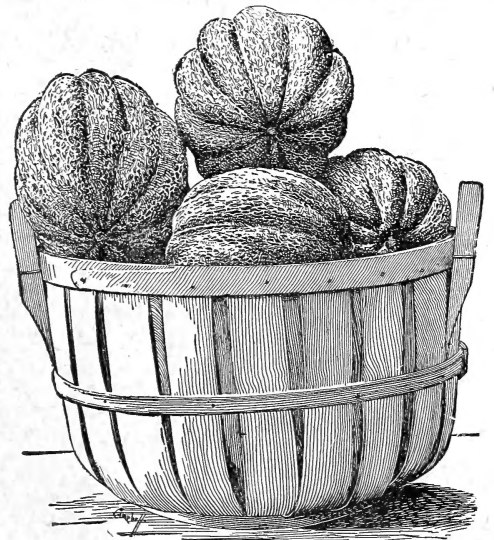
**ALL SEASONS LETTUCE.** The handsome heads are very large and extremely solid. The leaves are light green, and the head being large there are a great many large, crisp, tender blanched inside ones. It is hardy and stands extremes of climate better than other sorts. Is slow to seed and is suitable for both early and late sowing.

5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

**BON-TON LETTUCE.** The plants grow to a large size and stand a long time, even in hot weather, before starting to seed. For the home garden, or for the market gardener and growers who raise lettuce under glass for the winter market, the **Bon-Ton** is valuable by reason of its quick growth, large size, attractive golden color and crisp, sweet flavor of the leaves.....5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

**MAMMOTH BLACK SEEDED BUTTER LETTUCE.** Heads large, solid, blanching to white at center; leaves, smooth, thick, brittle, tender and extra fine flavored, long standing.

5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.



**Paul Rose Musk Melon.**

**KELCKLEY'S SWEET WATERMELON.** Vines strong and vigorous and the fruits grow uniformly to a large size; oblong in form, rather tapering at the ends. The skin is a rich dark green, while the flesh is bright scarlet, ripening close to the skin, the rind being only about one-half inch in thickness. The flesh is crisp, sugary and melting being entirely free from any stringiness. The rich coloring of the flesh, together with its luscious sweetness, combine to make it one of the finest table melons. ....5c pkt.; 10c oz.; 30c ¼ lb.; \$1.00 lb.

**TRIUMPH WATERMELON.** A cross between Duke Jones and Kolb's, Gem. It has the handsome appearance of the former and the shipping qualities of the Gem; early, prolific, deliciously sweet and of enormous size. Has all of the qualities of a desirable melon.

5c pkt.; 10c oz.; 20c ¼ lb.; 60c lb.



**NORWOOD PARSLEY.** This is a fine variety. The habit is regular and compact, and the fine curled leaves are set so closely that the form of the plant is almost semi-globular. The color is a bright-pea-green, and flavor surpasses all others. This variety combines the qualities of a fine culinary herb with those of a beautiful decorative plant, and is equally valuable for garnishing purposes and borders.

5c pkt.; 15c oz.; 40c  $\frac{1}{4}$ lb.; \$1.00 lb.



Norwood Parsley.



**McCULLOUGH'S CINCINNATI MARKET RADISH.** Largely grown by the Cincinnati market gardeners. The tops are so small that the radishes may stand touching each other in the rows. They grow perfectly straight and smooth and from six to seven inches in length. Their attractive, glossy, scarlet skin is very thin and the flesh crisp and brittle, and of delightful pungent flavor. It is the finest Long Red Radish for forcing and out-sells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.....5c pkt.; 10c oz.; 25c  $\frac{1}{4}$  lb.; 75c lb.

**CRIMSON GIANT FORCING RADISH.** This giant radish develops roots of 6 to 7 inches in circumference and over an ounce in weight more than double the size of other forcing varieties, without getting pithy and hollow, their pure white flesh remaining firm and crisp and of the mildest flavor. It is very early notwithstanding its size. It is equally well adapted to outside culture. The seed should be sown very thinly to permit full development of the roots.

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

**DELICIOUS WHITE RADISH.** Half-long in form, tapering at the lower end; handsome appearance and particularly crisp, mild flavor. It is perfectly solid and crisp to the center. The best half-long white summer variety.....5c pkt.; 10c oz.; 25c  $\frac{1}{4}$  lb.; 75c lb.

**LARGE ROSE, WHITE TIPPED RADISH.** An extra large Turnip-shaped Radish. This variety develops roots 6 to 7 inches in circumference and over an ounce in weight, but notwithstanding its immense size, does not get hollow or pithy. The flesh is purest white, firm and crisp in texture and of mild flavor. An excellent summer radish.

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

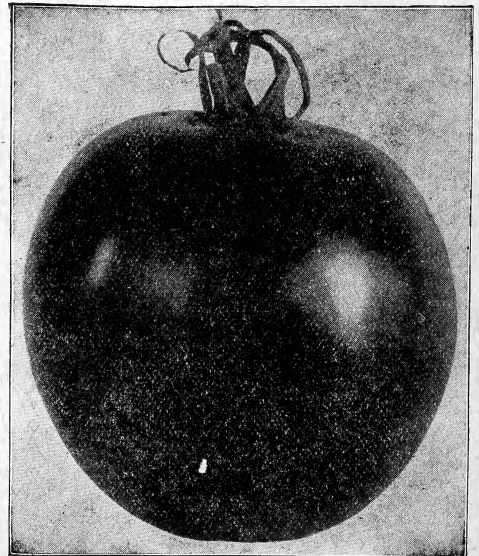
**CORELESS TOMATO.** (Livingston's.) A perfect shaped canning variety, large size, globe shaped, full at stem end, bright red, a strong grower and a big cropper. In shape it is almost round. It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large. Always free from green core; ripens all over and right under the stem, all at once. A grand, good slicing variety; the seed cells being surrounded by bright red, heavy meaty and delicious flesh. The strong outside and inner walls of flesh of the Coreless render it a very firm fruit and one of the best for long distance hauling or shipping.....10c pkt.; 50c oz.

**GLOBE TOMATO.** (Livingston's.) A beautiful globe-shaped variety. Large size, smooth, firm fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinted purple. Flavor delicate and agreeable; splendid slicing variety.....5c pkt.; 30c oz.; 80c  $\frac{1}{4}$  lb.

**CHALK'S EARLY JEWEL.** A second early tomato about ten days later than Earliana. Fruit large size and fine flavor. The plants are compact and strong, and when bearing fairly loaded with fruit. One of the best for shipping and the home garden. 5c pkt.; 30c oz.; 80c  $\frac{1}{4}$  lb.

**EARLY MICHIGAN.** A very popular kind for the general market, and for family use, smooth, regularly uniform in size and color, free from rot or cracking. First fruits are very early, while the vines continue bearing a long time. Fruit medium to large, increasing in size as the season advances. Color deep red. 5c pkt.; 30c oz.; 80c  $\frac{1}{4}$  lb.

**GREATER BALTIMORE.** Ripens for main crop; very large; color bright scarlet; smooth; ripening even to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best; not subject to rot; its appearance on market remarkably attractive; It is the standard Tomato for market gardeners and truckers, and superior for canning. ....5c pkt.; 30c oz.; 80c  $\frac{1}{4}$  lb.



Coreless Tomato. (Livingston)



# NOVELTIES AND SPECIALTIES

— IN —



**ASTER-DAYBREAK.** The flowers are large, and double to the center. Color an exquisite shell pink. The plant is a strong, compact grower, and the flowers are borne upright on long stiff stems. . . . . 10c pkt.; 3 pkts. 25c.

**ASTER LAVENDER DAYBREAK.** The habit of growth is similar to that of Daybreak, but the flowers are larger in size, always full to the center and of a beautiful shade of Lavender. . . . . 10c pkt.; 3 pkts. 25c.

**ASTER—Purity.** (White Daybreak.) A pure white Aster of great beauty. The plant is of symmetrical habit, growing about 18 inches high. The plants are one mass of white flowers of large size. As a cut flower variety Purity is first class, the stems being long and strong, and the plant is of free branching habit. . . . . 10c pkt.; 3 pkts. 25c.

**ASTER—Royal Purple.** The flowers are large with full centers well covered, petals flat and incurved. Color is a rich shade of Royal Purple. This variety is distinct in growth from the branching Asters. The side stems start from the main stem close to the ground, and not in side shoots from the main stem. . . . . 10c pkt.; 3 pkts. 25c.

**BEGONIA—Gracilis Luminosa.** This differs from Begonia Gracilis in the lustrous reddish brown color of the foliage, while the flowers measuring 1 to 1½ inches across, are of a fiery dark scarlet. It is very free flowering, and where massed produces a splendid effect. No better sort for groups and bedding has yet been seen. . . . . 20c pkt.; 3 pkts. 50c.

**CRYSANTHEMUM—Inodorum Bridal Robe.** Of compact and upright habit. The plants grow about 12 inches high, and are covered the entire summer with their beautiful snow-white double flowers, which resembles the White English Daisy. Valuable for cutting. . . . . 10c pkt.; 3 pkts. 25c.

**DELPHINIUM—Kelway's Hybrid.** The finest strain of Larkspurs. The flower spikes are stiff and strong, crowded with flowers, double and single, shading from light blue to the intense indigo and purple shades. Extra fine. . . . . 15c pk.; 2 pkts. 25c

**IMPATIENS—Holstii.** It forms elegant bushes 1½ feet in height. The flowers measure 1½ inches across and are of a brilliant vermilion color. In a half shady situation, the plants grow luxuriantly and form effective and showy flower beds, also an excellent pot plant. . . . . 25c pkt.; 3 pkts. 60c.

**KOCHIA TRICOPHYLLA** (Burning Bush.) A highly ornamental annual of rapid growth which forms regular pyramids about 3 feet high, having a cypress-like appearance. The leaves are slender and of a light green until September when they change to carmine and blood-red. The flowers are minute but countless. . . . . 5c pkt.

**LOBELIA—Hamburgia.** One of the prettiest Lobelias for hanging baskets, porch boxes, etc., flowers pale blue with white eye. . . . . 10c pkt.; 3 pkts. 25c.

**MALLOW MARVELS.** (Meehan's) Immense flowers from eight to ten inches in diameter, in following colors: fiery crimson, blood red, shell pink and white. Their great beauty is indescribable surpass all other perennials in profusion of bloom and brilliancy of color. Of herbaceous character they come up year after year and are absolutely hardy. In blooms from July to October. . . . . 10 cts. pkt.; 3 pkts, 25 cts.

**NASTURTIUM GOLDEN FOLIAGE.** A striking and most desirable type for bedding and potting. The contrast between the clear golden yellow foliage and the flowers is remarkable.

**GOLDEN BLOTCHED.** Flowers mottled crimson on white and primrose ground. . . . . 10c pkt.; 25c oz.

**GOLDEN MIDNIGHT.** Flowers darkest maroon, nearly black. 10c pkt.; 25c oz.

**GOLDEN ROSE.** Flower bright rose, a splendid color. . . . . 10c pkt.; 25c oz.

**NASTURTIUM IVY LEAVED.** A class with thick green lobed leaves resembling those of the English Ivy. The flowers are of a delicate fringed formation and are borne in great abundance throughout the season.

Ivy Leaved Nasturtium 5 cts. pkt.: 20 cts. oz.

**Dwarf Ivy Leaved Lady Bird.** Flowers yellow, blotched crimson.

**Dwarf Ivy Leaved Othello.** Flowers deepest maroon.

**Tall Ivy Leaved Flamingo.** Flowers orange scarlet; upper petals marked with brown lines.

**Tall Ivy Leaved Golden Gem.** Rich golden yellow self colored flowers.

**Tall Ivy Leaved Lady Bird.** Flowers yellow blotched crimson.

**NASTURTIUM VARIEGATED LEAVED.** The foliage is strikingly variegated rendering the plants very ornamental even when not in flower, and when in bloom the effect is doubly enhanced. They are superb for garden culture and also make lovely pot plants.



- Dwarf Variegated Lady Bird.** Flowers yellow, blotched crimson. . . . . 10c pkt.; 25c oz.
- Dwarf Variegated Orange.** Flowers deep orange, extra fine. . . . . 10c pkt.; 25c oz.
- Dwarf Variegated Queen.** Flowers scarlet maroon, free-flowering . . . . . 5c pkt.; 20c oz.
- Tall Variegated Croesus.** Flowers primrose striped with velvet crimson. . . . . 5c pkt.; 20c oz.
- Tall Variegated Queen.** Flowers scarlet maroon, free-flowering. . . . . 5c pkt.; 20c oz.

**PANSY—Masterpiece.** The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers or waved and curled, and contain the richest colors. Each petal is distinctly marked with a large dark blotch and most of the flowers are margined with a light, white or yellow edge. . . . . 15c pkt.; 2 pkts. 25c.

**PANSY—Mme. Perret.** Flowers of largest size, in great diversity of color; especially rich in red shades. Extra fine. . . . . 20c pkt.; 3 pkts. 50c

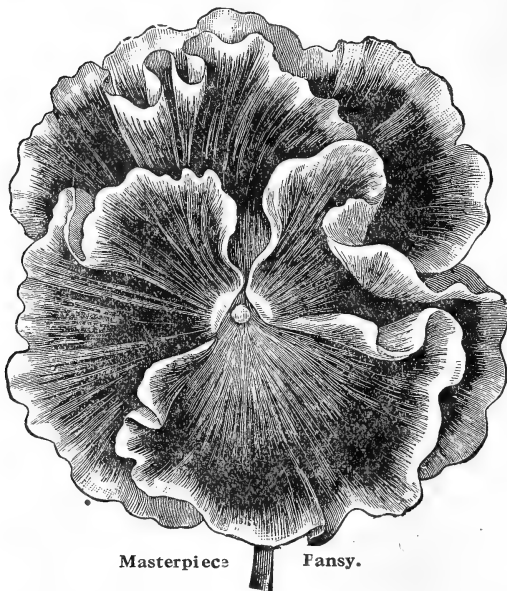
**PANSY—Pretiosa Giant.** A distinct variety of the Giant Five Spotted Pansies. Each petal is marked with a very large blotch of deep violet color, these blotches are surrounded by a brilliant crimson rose ground color, and the ground color is margined with a pure white edge. A very effective and bright variety. . . . . 20c pkt.; 3 pkts. 50c.

**PANSY—McCullough's Premier.** This strain is saved from the finest flowers, from the best growers of Pansies. The plants are compact and of robust growth, and will give an abundance of very large flowers of unsurpassed brilliancy of color and distinct markings. Florists and amateurs desiring charming "show" flowers should not neglect this strain, as it is the result of many years careful selection and hybridization, and embraces all the attractive features that tend to make the Pansy the people's flower. . . . . 1/2oz. \$2.00; 25c pkt.

**PRIMULA OBCONICA GIGANTEA.** This new variety is the finest yet introduced; of strong, vigorous growth with immense heads of large individual blooms. Varies in color from pale lilac to rose. . . . . 20c pkt.; 3 pkts. 50c.

**SALVIA—Splendens Zurich.** Extra early flowering variety. The plants are dwarf and compact, and commence to produce their large brilliant flowers early in July and continuing to bloom until killed by frost. . . . . 15c pkt.; 2 pkts. 25c.

**SHASTA DAISY.** A grand large-flowering Daisy, hardy, robust growth and produces larger and finer flowers each season as the plants increase in strength. The flowers measure four inches in diameter, and while single have three or more rows of long slender snowy-white petals surrounding a small golden-yellow center or eye. They are especially useful as cut flowers as well as showy bloomers for planting in beds or borders of perennial or hardy flowers. . . . . 20c pkt.; 3 pkts. 50c.



**STOKESIA CYANEA.** A beautiful, hardy perennial, growing about 24 inches high; each plant producing 20 to 30 handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost. One of the best hardy border plants; fine for cutting. . . . . 15c pkt.; 2 pkts. 25c.

## SWEET PEAS NEW ORCHID FLOWERING.

The largest in size of all Sweet Peas, this distinct type is a beautiful new departure and embraces exquisite shades uniformly of enormous size, unusual substance, of waved or fluted appearance and charming blendings of harmonious colors, these new seedlings can only be appropriately described as Gigantic "Orchid-Flowered."

The stems are extra long and stiffly erect, having uniformly three to four flowers facing one way. The standards measure two inches across, without flattening out the folds.

In all flowers of the true type, both standard and wings are beautifully frilled or fluted, which is a most attractive feature. The flowers, with their large size, charming coloring and long stems, are of good substance, being exceptionally lasting and fragrant when gathered for bouquets.

**ASTA OHN SPENCER.** Flowers of large size, lavender suffused with mauve; standard and wings waved and fluted. The stems are long and sturdy and each stem uniformly bears four towers. . . . . 10c pkt.; 20c 1/2oz.; 35c oz.

**BEATRICE SPENCER.** Standard white, tinted with soft pink and buff, while each wing has a blotch of brighter pink near the base. One of the most delicate and dainty varieties. . . . . 10c pkt.; 20c 1/2 oz.; 35c oz.

**FLORA NORTON SPENCER.** Bright blue with a little tint of purple. Flowers very large, with wavy standard and wings. The flowers are produced three or four to a spray; stem thick and long. . . . . 10c pkt.; 35c 1/2 oz.; 60c oz.

**FLORENCE MORSE SPENCER.** Delicate blush, with pink margin, very large open wavy form, with long stems, and four blossoms to the stem. . . . . 5c pkt.; 20c oz.

**KING EDWARD SPENCER.** The largest and best Scarlet Sweet Pea. The large flowers are waved and crinkled; Standard and wings deep rich carmine scarlet with long stems, and four blossoms to the stem. . . . . 10c pkt.; 20c 1/2 oz.; 30c oz.

**LOVELY SPENCER.** Bright pink at the base of both standard and wings, shading to a softer pink and becoming almost white at the edges. The large and wavy flowers are beautiful bunching. . . . . 10c pkt.; 35c 1/2 oz.; 60c oz.

**MARIE CORELLI.** The wings are a pure rich rose crimson, while the standard shows a tint of cherry red. The standard is large, round and wavy. The wings are full and inclined to remain boldly upright instead of drooping. The long strong stems usually bear four flowers each, plant of strong growth and very free flowering. . . . . 15c pkt.; 60c 1/2 oz.; \$1.00 oz.

**PRIMROSE SPENCER.** Primrose or creamy yellow; standard and wings waved. The best of this color in size of flower, length of stem and vigor of growth. . . . . 5c pkt.; 20c oz.

**ST. GEORGE.** The bold expanded standard is a rich pure orange color, while the large wings are a distinct orange carmine. The best of this shade; long strong stems. . . . . 10c pkt.; 35c 1/2 oz.; 60c oz.

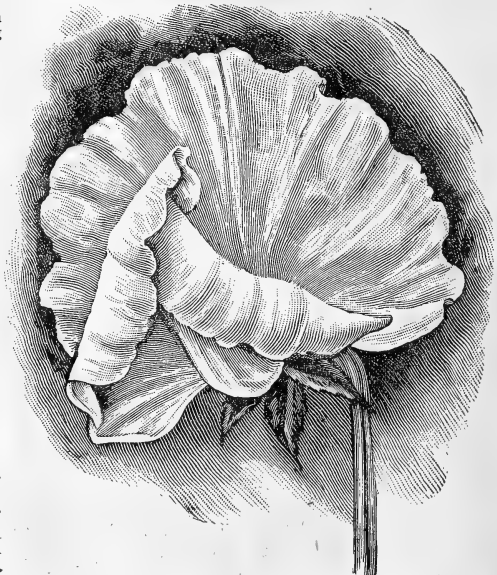
**SENATOR SPENCER.** The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope, standard and wings are marked the same. Long stems with four blossoms on each stem. . . . . 15c pkt.; 40c 1/2 oz.; 75c oz.

**WHITE SPENCER.** The finest White Sweet Pea with large fluted and wavy petals, long stout stems. The flowers are borne three and four to the stem. . . . . 5c pkt.; 20c oz.

**W. T. HUTCHINS.** The fully expanded flower, light apricot overlaid with blush pink. The standard and wings are wavy ruffled and crinkled, flowers of the largest size on long strong stems, free flowering. . . . . 15c pkt.; 40c 1/2 oz.; 75c oz.

**SPENCER SEEDLINGS.** The flowers are of large size, beautifully frilled and waved, borne on long stems. A splendid mixture of new seedlings and named varieties of Countess Spencer type. . . . . 5c pkt.; 20c oz.; 60c 1/4 lb.; \$2.00 lb.

**PREMIER COLLECTION. Orchid Flowered Sweet Peas.** Six varieties our selection. . . . . 35 cts.  
**PREMIER COLLECTION. Orchid Flowered Sweet Peas.** Twelve varieties our selection. . . . . 70 cts.



# GLADIOLI KUNDERD'S NEW RUFFLED.

THE Horticultural Journals, in America and Europe, have for the last two years sung the praise of this wonderful novelty. We are therefore proud in being able to offer to the horticultural world an original American introduction of utmost importance.



Gladioli Kunderd's Glory.

**MRS. MALCOLM MACKAY.** A brilliant fiery red with a large snow white throat. It opens many flowers at once, well arranged, all facing one way. It produces several spikes from each bulb. It is a rapid multiplier and no showier variety can be planted for lawn and garden decoration. Will become a great favorite with Florists and Private Gardeners. .10c each; \$1.00 per doz.

**NO. 3 WHITE.** A very fine white with nicely penciled throat, large size, six to eight open blooms at a time. At least two weeks earlier than the popular Augusta. Vigorous grower and fine for forcing. Its earliness, fine forcing character, and rapid rate of increase will make it very popular. .10c each; \$1.00 per doz.

**YELLOW BIRD.** An unusually large and vigorous yellow with finely barred lower petals. A splendid shade of yellow, one of the very best in its color. .20c each; \$2.00 per doz.

**COLLECTION A.** 7 New Gladioli, including "Glory".....1 of each variety, 90c.

**COLLECTION B.** 42 New Gladioli, including "Glory".....6 of each variety, \$4.50.

**KUNDERD'S GLADIOLI.** Is quite distinct and will revolutionize this important class of bulbs, and be an important factor in commercial floriculture.

The type is distinctly new. Broad expanded, wide open flowers, paired by twos, face all the same direction and are carried on straight, stout stalks never less than 3½ feet in height. From four to eight flowers are open at one time. It will be the leader for many years to come. The originator has hundreds of distinct varieties now under observations and with the coming years will introduce the best ones. Each petal is exquisitely ruffled and fluted at the edges such as is only noticeable in orchids, it gives the flower a refined appearance and it appeals instantly to the fancier.

The Ruffled Gladioli is a great acquisition and they will become very popular.

**LUTHER BURBANK CALIFORNIA.** Says: "The Ruffled Gladioli you sent me last spring bloomed nicely. It is a fine light color, elegantly ruffled, a strong healthy grower. The Ruffled Gladioli, like the Ruffled Sweet Peas have a refined appearance which the common flat ones do not possess."

M. Crawford, one of the largest growers of Gladioli says "within 10 years no other but Ruffled Gladioli will be grown."

**GLORY.** (The only Ruffled variety offered for sale 1911). Delicate cream pink with a neat attractive crimson stripe in the center of each lower petal.

25c each \$2.50 per doz.; \$18.00 per 100

## NEW VARIETIES OF GLADIOLI.

(Not Ruffled Sorts.)

GROWN BY A. E. KUNDERD.

**BEST VIOLET.** A tall large flowered solid violet, with fine narrow white bars on lower three petals. A strikingly rich color very noticeable, when well grown becomes very tall and massive. ....10c each; \$1.00 per doz.

**BIRD OF PARADISE.** Light red mottled dark red, lower petals marked with white. A glorious flower. It is very tall and willowy, large flowered and one of the most distinctly and beautifully marked among the high colored sorts. It is indeed magnificent. ....25c each; \$2.50 per doz.

**CREAM PINK.** A tall strong grower of a very fine soft pink shade, with a delicate large cream yellow throat, very beautiful. ....10c each; \$1.00 per doz.

## DAHLIAS NEW AND RARE VARIETIES.

**GEISHA.** Orange red, with yellow center paling off towards the end of the petals, of which there are two or three rows, elegant form and free-flowering; the flowers contrast beautifully against the fine foliage. ....25c each; \$2.50 per doz.

**GERMANIA.** Bright glowing crimson, very attractive. ....25c each; \$2.50 per doz.

**JACK ROSE.** Brilliant crimson-red, rich and gl wing. The habit of the plant is perfect for garden decoration, while its stiff stems holding its large flowers erect, secure for it a foremost place as a Cut Flower. ....15c each; \$1.50 per doz.

**KING LEOPOLD.** Flowers very large and on long stems. Color yellow varying from cream yellow to white. .25c each; \$2.50 per doz.

**MRS. ROOSEVELT.** A beautiful flower, it is of immense size, fine color, and excellent stems for cutting. The flowers are perfectly double, six to eight inches in diameter and of a delicate pink. ....15c each; \$1.50 per doz.

**OHIO.** Flowers large of fine form and full to the center. Color delicate shell pink shading to deeper pink in center, reverse side of petals pink. Petals of great substance making it an excellent shipping variety. Its beautiful color, fine shapely flowers, long stout stiff stems, which holds the flowers well above the foliage and the fact when cut it retains its freshness for a long time, makes it one of the most valuable for cutting.

The plant is a strong healthy grower and is one mass of bloom the entire season and will grow in any soil.

50c each; \$5.00 per doz.

**SNOW QUEEN.** Pure white, strong vigorous grower. The graceful formation of the flower and adaptability for both garden decoration and cut-flower makes it extremely valuable. ....5c each; \$2.50 per doz.



## McCULLOUGH'S SUBURBAN LAWN GRASS SEED

Is a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year, so that a rich, deep green, velvety lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequalled. The quantity required for making a handsome lawn is five bushels (80 lbs.) per acre, or for renovating old lawns, two bushels, (32) lbs. per acre. For a plot 10x25 or 250 square feet, one pound is required for a new lawn, or about half pound for renovation.

**HOW TO MAKE A LAWN.** A fine lawn is an unailing mark of intelligence and taste, to obtain which the main point is to start right. It is now a decided fact that seed will make a better lawn than turf or sod. The best soil is a good medium texture, neither very heavy or excessively light; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken; ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "SUBURBAN LAWN GRASS SEED" at the rate of five bushels (80 lbs.) per acre. It is unwise to be too economical in the quantity of seed used if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 to 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days. Each season the cultivated grasses after going to seed, lay dormant; at this time wild grass will appear to some extent but only for a short time, as it will succumb to the vigorous second growth of the other.

**RENOVATING LAWNS.** When your lawn has already been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and sow "SUBURBAN" LAWN GRASS SEED at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat well with the back of a spade. To preserve a lawn in good condition, an annual dressing of El Paso Sheep Manure or Pure Bone Meal (500 lbs.) to the acre should be used.

**SUBURBAN LAWN GRASS SEED.** Prices;  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 5 lbs. \$1.00; 1 bu. of 16 lbs. \$3.00. By mail 10c per lb. extra.

**McCULLOUGH'S SHADY PLACE LAWN GRASS SEED.** On nearly all lawns there are shady, bare and unsightly spots on which the owners have difficulty in getting a stand of grass; for such places this mixture is adapted. It is composed of dwarf-growing grasses which are found naturally growing in such places. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case apply some lime or land plaster to sweeten it, but the moss should first be removed by the use of a sharp rake, then sow the seed at the rate of four bushels (64 lbs.) per acre.

Price: 1 lb. 40c; 5 lbs. \$1.50; 1 bu. of 16 lbs. \$4.50. By mail 10c per lb. extra.

**McCULLOUGH'S TERRACE MIXTURE LAWN GRASS.** There is nothing more annoying than to have ground washed out. In this mixture we have put quick growing and deep-rooted grasses. Of course it depends a great deal upon this being well started before a wash out. . . . . Per lb. 35c; 5 lbs. \$1.50; 8 lbs. \$2.00; 1 bu. of 16 lbs. \$4.00. By mail 10c per lb. extra.

**McCULLOUGH'S GOLF LINK GRASS SEED.** We have given much attention to grasses for Golf Links. The mixture we offer below are composed of such varieties as will thrive here, and are the results of experiments conducted on our grounds, as well as careful watching for several years of the practical results obtained on the Golf Links.

We have always on hand all the natural grasses of Europe and America, and we are familiar with the habits and merits of each. We shall be glad to prescribe for whatever the requirements of the Links may be, for poor land or rich, high and dry, or low and wet.

**PUTTING GREEN MIXTURE.** A mixture of extra fine grasses, that will make a close, firm, green and lasting turf, which will improve the more it is tramped on. . . . . Per lb. 30c; 5 lbs. \$1.40; 1 bu. of 16 lbs. \$4.00. By mail 10c per lb. extra.

**GOLF LINK MIXTURE.** For the grounds in general. Per lb. 20c; 5 lbs. 90c; 8 lbs. \$1.35; 1 bu. of 16 lbs. \$2.50.  
By mail 10c per lb. extra.





DEPARTMENT OF

VEGETABLE SEEDS 1911

We always endeavor to make highest quality a first consideration, and then to make our prices as low as good honest seeds can be sold. Our prices, therefore, will in all cases be found as low as those of any other reliable house for seed of the highest standard of excellence. We are determined to sell nothing but the very best Seeds that it is possible to produce.

POSTAGE.

Our prices include postage on all seeds in Packets, Ounces and Quarter Pounds. Seeds offered in larger quantities are not prepaid. HALF POUNDS, POUNDS, PINTS, QUARTS AND LARGER QUANTITIES ADD 10 CENTS PER POUND OR PINT AND 16 CENTS PER QUART.

SPECIAL RATES ON VEGETABLE SEEDS IN PACKETS.

To induce our patrons to form clubs to purchase seeds in quantity, we offer the following liberal discounts on Vegetable Seeds in Packets, Mailed postage paid.

- For 25c select 6 five-cent packages of Vegetable Seeds.
- For 50c select 13 five-cent packages of Vegetable Seeds.
- For \$1 select Seeds in packets only to the amount of. \$1 30
- For \$2 select Seeds in packets only to the amount of. 2 65
- For \$3 select Seeds in packets only to the amount of. 4 00

These prices do not refer to seeds offered by weight, measure or collections, but to seed in packet only.

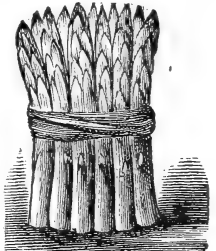
ALL OUR PACKETS ARE WELL FILLED WITH THE BEST SEEDS.

ARTICHOKE.

Sow in April in rich soil, and transplant the following spring to permanent beds, in rows or hills, three feet apart and two feet between plants.  
**LARGE GLOBE.** Grown for the unripe flower heads. . . . . 5c pkt., 25c oz., 90c ¼ lb.  
**JERUSALEM.** Grown exclusively for its tubers, which somewhat resemble potatoes, and are cultivated in a similar manner, only that the rows should be at least four feet apart when grown in strong soils.  
 Tubers, 25c per quart, by mail. 50c per peck; \$1.25 per bushel; \$3.00 per barrel of three bushels. Shipped at buyers' expense.  
 Plant three bushels per acre.

'ASPARAGUS (Spargal, Ger.)

One Ounce will produce 200 Plants. Five Pounds to the Acre.



**I**N EARLY spring sow the seed, after soaking it twenty-four hours in warm water, in drills about one foot apart and one inch deep. The soil should be rich and well worked. Later, thin plants to three or four inches apart in the rows, and cultivate often. The permanent beds should be prepared by deep plowing or spading, and thoroughly enriching the ground with stable manure or other fertilizers. If the subsoil is not naturally loose and friable, it should be made so by thoroughly stirring with a subsoil plow or spade. Make rows 2 ½ feet apart and four inches deep, and set the plants in the bottom of the rows eighteen inches apart. Cover the roots about two inches deep. After the plants are well started, give frequent and thorough cultivation, and draw a little earth into the furrows at each hoeing until they are filled. In December give a top dressing of well rooted manure. Early the next spring spade in a heavy dressing of manure, and one quart of salt to each square rod, and cultivate well until the plants begin to die down. The next season the bed may be cut over two or three times, and after the final cutting, give a good dressing of manure, hardwood ashes and soil. In the fall, as soon as the tops are ripe and yellow, they should be cut and burned. Two-year-old roots will insure the best and earliest results.

pkt. oz. ¼ lb. lb.

<b>ARGENTEUIL.</b> This variety is largely grown for the Paris market. The stalks grow to a mammoth size, sometimes weighing as much as four ounces. It is early and vigorous and little troubled with rust. A first class green variety. . . . .	05	15.	40	\$1 00
<b>BARR'S MAMMOTH.</b> A fine large stemmed green variety. . . . .	05	10	20	60
<b>COLUMBIAN MAMMOTH WHITE.</b> Pure white stalks, large size and finest quality. . . . .	05	10	20	65
<b>CONOVER'S COLOSSAL.</b> One of the very best varieties, large and productive. . . . .	05	10	20	50
<b>PALMETTO.</b> An improved variety. Very early and a good yielder. . . . .	05	10	20	60

ASPARAGUS ROOTS.

<b>ARGENTEUIL.</b>	Two-year-old roots. . . . .	Per 100	Per 500	Per 1000
<b>BARR'S MAMMOUTH.</b>	" " " " . . . . .	\$1 25	\$5 00	\$9 00
<b>COLUMBIAN MAMMOUTH WHITE.</b>	" " " " . . . . .	1 00	4 25	7 00
<b>CONOVER'S COLOSSAL.</b>	" " " " . . . . .	1 00	4 25	7 00
<b>PALMETTO.</b>	" " " " . . . . .	. 80	3 75	6 00
<b>EXTRA STRONG THREE YEAR OLD ASPARAGUS ROOTS.</b> For Forcing . . . . .		1 00	4 25	7 00
		2 00	8 00	15 00

The J. M. McCullough's Sons Co., Cincinnati, O.: Piqua, Ohio.  
 Gentlemen—Our last order from you duly received in good condition, and find all to be the best quality giving perfect satisfaction in every way.  
 This and previous orders from you verify the theory we have always held that it pays to do business with an old, reliable and well-established firm.  
 Hoping to be able to send larger orders in the future, I remain,  
 Yours most respectfully, H. G. HERSH.

# BEANS. Dwarf or Bush. (Bohne, Ger.)

## YELLOW PODDED WAX VARIETIES.

One Quart Will Plant One Hundred Feet of Drill.

**T**HE varieties of this class are tender, and will not bear much cold. Plant about the middle of April, if the ground is warm and the season favorable, and at intervals throughout the season for a succession, finishing about the 15th of August. The best mode of culture is in rows two feet apart and the beans three inches apart and two inches deep in rows. Keep well hoed, and draw the earth up to the stems but only when dry; working them wet with rain or dew will cause them to rust and injure the crop.

**ROUND POD KIDNEY WAX.** The plant grows tall, strong and sturdy, with long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle and free from rust. The earliest and best Wax Bean for either the market or home garden. We recommend it very highly.

Per pkt., 5c; pint, 15c; qt., 30c; peck, \$2.00

**BLACK WAX IMPROVED.** Very early and prolific, pods round, full and stringless.

Per pkt., 5c; pint, 15c; qt., 25c; peck, \$1.75

**CURRIE'S RUST PROOF WAX.** Early and productive pods straight, flat, 5 inches in length and of a light golden yellow; fleshy, brittle and of fine flavor

**DAVIS KIDNEY WAX.** Pods long, straight, oval, clear, waxy white color, growing to a length of seven to eight inches, and fine flavor

**FLAGEOLET WAX.** Flat, yellow, stringless, pods of great size

**GOLDEN WAX.** Very early and productive, of excellent quality, being very crisp and tender

**HODSON'S WAX.** This variety is a rank grower, sturdy and productive, free from rust and blight. The plants are well loaded with long, straight, handsome pods, averaging about seven inches in length. The pods are brittle and tender, of fine texture and pleasant flavor

**VALENTINE WAX.** The earliest Wax Bean. The pods are round, meaty, and with so very little string that they may justly be called stringless. It is remarkably free from rust, and remains a long time without becoming tough



Round Pod Kidney Wax.

Pkt.	Pt.	Qt.	Pk.
05	15	30	\$2 00

05	15	30	2 00
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05	15	25	1 50
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05	15	30	2 00
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05	15	30	2 00
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05	15	30	2 00
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05	15	30	2 00
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05	15	30	2 00
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**WARDWELL'S KIDNEY WAX.** One of the earliest, hardiest and most productive, is almost entirely free from rust and spots. The pods are long and showy, very tender, stringless, and of excellent quality

05	15	25	1 50
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## DWARF or BUSH LIMA VARIETIES.

**HENDERSON'S BUSH LIMA.** For convenience and practical use in the home garden it is a really good thing. It grows without the aid of poles, in compact bush form, about 18 inches high, is very productive and at least two weeks earlier than any of the Pole Limas

05	15	30	1 75
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**BURPEES' BUSH LIMA.** The true bush form of the old, large Lima Pole Bean. It grows vigorously to a height of 18 to 20 inches, forming a circular bush, 2 or 2½ feet in diameter, requiring no poles or stakes, yielding from 50 to 150 fine pods, similar to those grown on the large white Lima Bean

05	15	30	2 00
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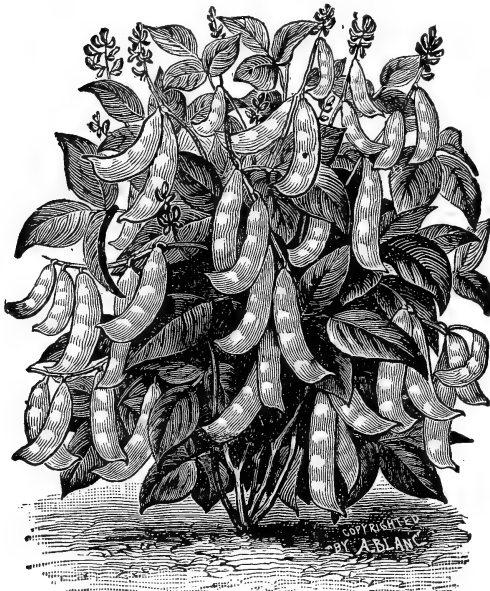
Iola, Kan.,

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—I have found your vegetable seeds completely satisfactory in every respect. I have tried several different firms on seeds, but have found yours superior in quality. I have dealt with your firm for twenty years and will advise any one wishing the very best quality of vegetable seeds to buy them of the J. M. McCullough's Sons Co.

Yours respectfully,

GEO. EWELL.



Burpee's Bush Lima.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent by Mail, at prices quoted; Half-pounds, Pounds, Pints, Quarts and larger quantities if to be sent by Mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

# BEANS==Dwarf or Bush—Continued.

## GREEN PODDED VARIETIES.

**NORWOOD GIANT STRINGLESS GREEN POD.**

Pkt. Pt. Qt. Pk.

This variety is superior to any other green-podded bean grown. It is positively stringless, and ripens earlier than the Valentine. The pods which are produced in abundance on the vines, are long and fleshy; perfectly round, meaty and finest quality.....

05 15 30 \$2 00

**BURPEE'S STRINGLESS GREEN POD.**

This variety is positively stringless and remains tender and crisp. The pods are pale green, long and straight, perfectly round and meaty, maturing with the earliest of the green pod varieties.....

05 15 30 2 00

**MCCULLOUGH'S IMPROVED ROUND POD RED VALENTINE.**

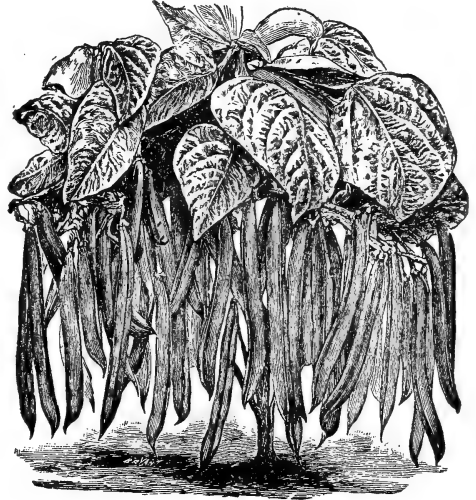
Our stock is extra choice. This variety is usually ready to pick in thirty-four days after planting. The pods are thick and fleshy, of finest quality and unequalled in uniformity of ripening, which latter fact, combined with its earliness, makes it one of the most profitable sorts for the gardener.....

05 15 25 1 75

**BLACK VALENTINE.**

This variety is very productive. Pods are extremely long, round and straight, and are quite attractive in appearance. The quality is also good, pods being decidedly tender. Suitable for both early and late planting, being extremely hardy. It will withstand early and late frosts which kill other varieties.....

05 15 30 2 00



Norwood Giant Stringless Green Pod.

Pkt. Pt. Qt. Pk.

**BOUNTIFUL.** An improved Long Yellow Six Weeks, being earlier, hardier and producing better and larger pods and more of them. The pods being absolutely stringless, tender, of finest flavor and good appearance..

05 15 25 \$1 75



McCullough's Improved Round Pod Red Valentine.

**TENNESSEE GREEN POD.** A very recent introduction, very meaty flat pods of large size and good flavor. Dwarf vine with heavy foliage. It is very hardy and an excellent cropper on poor soil or hillside.....

05 15 30 2 00

**EXTRA EARLY REFUGEE.** Early and productive, will stand a light frost; one of the best string or pickling beans.....

05 15 25 1 75

**IMPROVED REFUGEE, OR THOUSAND TO ONE.** Medium or late variety, extensively grown for pickling.....

05 15 25 1 75

**LONG YELLOW, SIX WEEKS.** Very early, productive, and a good shell bean.....

05 15 25 1 75

**HORTICULTURAL DWARF.** Excellent quality as a shell bean either green or dry.....

05 15 25 1 50

**WHITE KIDNEY, OR ROYAL DWARF.** A superior kind for baking, and is also excellent when shelled green.....

05 10 25 1 75

**RED KIDNEY.** Similar to White Kidney, except in color.....

05 10 25 1 75

**WHITE MARROWFAT.** Grown for sale as a dry bean for winter use; excellent shelled, either green or dry.....

05 10 20 1 25

**MEXICAN OR PROLIFIC TREE.** Grows eighteen inches high, branching like a tree, bearing its pods so high that they do not touch the ground, and are not injured by wet weather.....

05 10 20 1 25

**NAVY.** The old standard sort for winter use.....

05 10 20 1 15

The J. M. McCullough's Sons Co., Cincinnati, O.:  
Gentlemen—The fruit trees I bought from you last April were received in good order, and are doing very nicely.

Yours very truly,

Mason, Ohio

F. W. M. ERBECK.

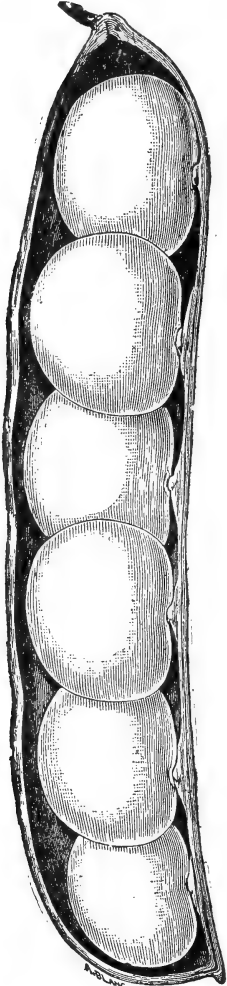
All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by mail, at prices quoted: Half-Pounds, Pounds, Pints, Quarts and larger quantities if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

**BEANS. Pole or Running.** (Stangen Bohnen Ger.)

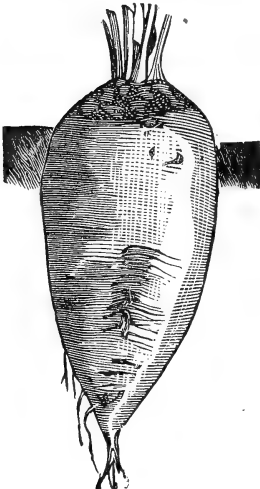
One Quart Will Plant 150 Hills

**T**HE planting of the various sorts of pole beans should be delayed two weeks after the first planting of the early dwarf sorts. The Limas, being very tender, will do better if not planted in the open ground before the middle of May. Plant in hills about three feet apart and one to two inches deep, using five or six seeds to each hill, and set a pole firmly in the center. Manure in the hill with well decomposed fertilizer. Thin the plants leaving three in each hill. Many cultivators consider it best, in planting Limas and other flat beans, to place the eye down, claiming in this way that they will germinate more quickly. Lima Beans for early use may be grown in frames and transplanted.

	Pkt.	Pt.	Qt.	Pk.
<b>MCCULLOUGH'S EXTRA LARGE LIMA.</b> A choice selection of the large Lima. It produces pods and beans of large size and in great abundance . . . . .	05	15	30	\$1 75
<b>KING OF THE GARDEN LIMA.</b> A vigorous grower, bearing profusely, large pods varying in length from 5 to 8 inches. The beans are large and of rich flavor. . . . .	05	15	30	1 75
<b>SEIBERT'S EARLY LIMA.</b> The earliest of all the large Limas. Vine is hardy and vigorous, continues in bearing longer than any other, fine quality, an improvement in large limas and cannot fail to become a favorite . . . . .	05	15	30	1 75
<b>KENTUCKY WONDER OR OLD HOMESTEAD.</b> This we regard as far ahead of any other green pole bean. In our trial grounds it was fit for the table at least ten days earlier than any other. It is entirely stringless, and the pods are a silvery green color. Cook tender and melting . . . . .	05	15	30	1 75
<b>CUT SHORT OR CORN HILL.</b> Used among corn, the best for this section . . . . .	05	10	20	1 25
<b>HORTICULTURAL.</b> (Wren's Egg or Speckled Cranberry). Productive and tender, is an excellent corn bean . . . . .	05	15	25	1.60
<b>LAZY WIFE.</b> An excellent late green podded pole bean. Pods of medium dark green color, broad, thick, very fleshy and entirely stringless. The pods remain green and tender until nearly ripe. Beans are white, and excellent as shell beans for winter use. 5c pkt.; 15c pt.; 30c qt.; \$2.00 pk.				
<b>WHITE CREASEBACK.</b> A good grower and very productive. Pods five to six inches long, perfectly round, with a crease in the back. The pods are stringless, fleshy and of good quality. 5c pkt.; 15c pt.; 25c qt.; \$1.50 pk.				
<b>SCARLET RUNNER.</b> A beautiful ornamental climber. Bright scarlet flowers. 5c pkt.; 20c pt.; 40c qt.; \$2.50 pk.				
<b>GOLDEN CLUSTER WAX.</b> The pods are from six to eight inches long, stringless, very tender and of delicate flavor. 5c pkt.; 15c pt.; 30c qt.; \$2.00 pk.				
<b>OHIO WAX POLE.</b> Large podded variety. The pods usually seven inches or more in length are so fleshy that they are frequently greater in width than breadth. They are solidly meaty, entirely stringless and when cooked deliciously rich and buttery. It commences to bear when scarcely higher than the bush variety and keeps on producing until killed by frost. It is a rampant grower, one plant filling a pole with a mass of vines densely loaded with luscious beans, almost a solid mass of pods from bottom to top. The finest Wax Pole Bean. 5c pkt.; 15c pt.; 25c qt.; \$1.75 pk.				



Extra Large Lima.



Vilmorin's Improved Sugar Beet.

**BEET SUGAR.** (Table Beet--See opposite page)

Five to Six Pounds of Seed Required Per Acre

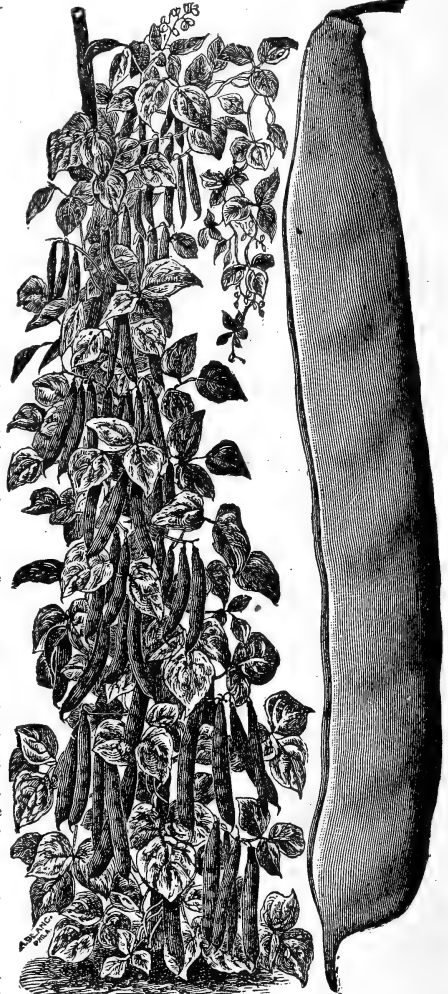
Are not as heavy yielders as Mangels, but superior quality, containing a large amount of saccharine matter; thousands of acres are planted with Sugar Beet for manufacturing sugar. Excellent for feeding cows, improving quantity and quality of milk. **VILMORIN'S IMPROVED.** A medium sized white Sugar Beet brought by the most careful selection to the highest perfection, both in shape and color of roots. Greatly esteemed by sugar manufacturers. 15c ¼ lb., 30c lb., \$2.50 for 10 lb. **LANE'S IMPERIAL.** One of the best for field culture; early, large and productive . . . . . 15c ¼ lb., 30c lb., \$2.50 for 10 lb.

**MANGEL WURZEL.**

Five to Six Pounds of Seed Required Per Acre.

The importance of this crop for stock can not be overestimated. The results from their use are wonderful as shown in the improved health and condition of animals, the increased yield in milk and the saving of hay. Can be raised at a trifling cost, and yields immense crops if the soil is rich. They make a heavy growth; the rows should be at least two feet apart.

- Prize Mammoth Long Red.** Roots of large size and excellent quality 15c ¼ lb., 30c lb., \$2.25 for 10
- Yellow Globe.** Of large size and globular form; very productive . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.
- Red Globe.** Large, red, oval; keeps well; large crops on shallow soil . . . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.
- Golden Tankard.** Bright yellow, large, handsome, heavy cropper, splendid quality . . . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.



Lazy Wife Pole Bean.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-Pounds, Pounds, Pints, Quarts, and larger quantities if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.



# BEET. (Rothe Rübe, Ger.)

One Ounce Will Sow Fifty Feet of Drill. Eight to Ten Pounds for an Acre.

**C**HE soil which is best suited is that which is rather light and thoroughly enriched with manure. For an early supply sow in spring as soon as the ground becomes fit to work, in drills about one foot apart and two inches deep. For main crop, sow the first week in May, and for Winter use, sow in June. When the plants have attained three or four leaves, thin out so they may stand five or six inches apart. Keep free from weeds by hand-weeding or hoeing. In October roots may be taken up and stored in the cellar, or in pits outside, like potatoes, care being taken that they are not bruised or injured in the process.



	Pkt.	Oz.	¼-lb.	lb.
<b>MCCULLOUGH'S NORWOOD.</b> One of the most uniform of all Beets, with small tops of bronzy red. The bulbs are handsome and round, smooth, and of good marketable size. Skin, deep blood-red; the flesh dark.	05	10	25	75
<b>ARLINGTON.</b> A dark leaved early blood variety, closely following eclipse in maturing, but of much darker color and superior quality. An excellent Beet for market gardeners.	05	10	25	75
<b>BASTIAN'S.</b> Of quick, large growth, fine turnip form and bright red color.	05	10	20	60
<b>BASSANO.</b> (The Table Sugar Beet.) A very early flat variety, tender, juicy; flesh white and rose-colored, very sweet.	05	10	20	50
<b>COLUMBIA.</b> One of the finest main-crop beets. Flesh deep blood red, and of rich flavor. The roots can be used early in the season when only partially grown, being less ready for use almost as quick as the Extra Early sorts, and of finer quality. It retains its fine quality and freedom from woodiness until the beets have reached their full size.	05	10	25	75
<b>CRIMSON GLOBE.</b> A handsome early or main-crop variety, of medium size, almost globe shaped and entirely free from rootlets. The roots average 10 inches in circumference, the foliage is small and of a rich bronzy purple. The flesh is rich blood-red, slightly zoned and of the finest quality, always sweet and tender, never stringy.	05	10	25	75
<b>CROSBY'S IMPROVED EGYPTIAN.</b> An improved strain of the Egyptian Beet, especially recommended as an extra early sort. It is much thicker than the original strain.	05	10	25	75
<b>DETROIT.</b> Color of skin, dark blood-red; flesh bright-red, zoned with a lighter shade, very crisp, tender and sweet and remaining so for a long time.	05	10	25	75
<b>EARLY BLOOD.</b> Flesh dark red color; a standard round variety, with small top.	05	10	20	50
<b>ECLIPSE.</b> One of the best early sorts, with a small tap root and small collar. Flesh dark red, zoned with a lighter shade, sweet, crisp and tender, especially when young.	05	10	20	60
<b>EDMAND'S EARLY.</b> Uniform small top, bronzy red. Exceedingly tender and sweet; skin, blood-red; flesh, dark red.	05	10	20	60
<b>EGYPTIAN EXTRA EARLY.</b> One of the earliest, of good quality and medium size; a fine forcer, small top.	05	10	20	50
<b>FIREBALL.</b> A distinct extra early variety of the finest table quality. The flesh is solid, crisp and sweet, and of a brilliant fiery red color. It is perfectly globular in form with smooth skin, a tiny tap root, and very slender leaf stalks. It is especially adapted for early forcing, but it can be sown with equal success in the open ground. It is as early as the earliest, but holds its good qualities longer.	05	15	50	1 00
<b>LENTZ'S EARLY BLOOD.</b> It is fully as early as the Egyptian, but larger and of better quality, of fine, dark-red color, tender and sweet.	05	10	20	50
<b>HALF LONG BLOOD.</b> One of the best for Winter use. Roots are only half as long as the Long Blood, but weigh as much on account of their thickness. They are always smooth and handsome, and their rich, dark-red flesh is very sweet, crisp and tender, never becoming woody even in the exposed portions.	05	10	20	65
<b>LONG DARK BLOOD.</b> A good late variety for fall and winter use, sweet and tender.	05	10	20	50
<b>SWISS CHARD.</b> The mid rib is stewed and served like asparagus, and the leaves used same as spinach.	05	10	25	75

## BROCCOLI. (Spargle Kohl, Ger.)

Sow in beds middle of spring, transplant and cultivate the same as Cabbage. Like Cauliflower, but more hardy.

EARLY LARGE WHITE	.....5c pkt., 25c oz....	EARLY PURPLE CAPE	.....5c pkt., 25c oz.
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## BRUSSELS SPROUTS. (Sprossen Kohl Ger.)

One of the most delicious vegetables, of easy growth. Produces small heads resembling miniature cabbages. Are used as greens, very tender when touched by frost. Sow in May and manage as winter cabbage. In the fall the leaves should be broken down so that the little cabbages will have room to grow.

DWARF IMPROVED	.....5c pkt., 25c oz
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# CABBAGE. (Weisskopf Kohl, Ger.)

One Ounce will produce 1,500 Plants. Quantity to transplant one acre, One-half Pound.

Our Seed is grown from Selected Heads, and saved from Center Shoots.

**CULTURE**—For an early crop, sow in hotbeds in January and February. When plants are large enough, transplant into other hotbeds or sow in cold frames in March. Transplant to open ground in rows 2ft. wide and 18 inches apart in rows, when danger from killing frost is past. This crop matures in June. For second early, the early kind should be sown in open ground first week in April, and planted out in May. This crop should mature in July and August. The late varieties are usually sown in the early part of May, and the plants are set in July, at a distance of 3 feet between the rows and 2 feet between the plants. This crop matures September October or November. Cabbage should not follow cabbage successively. The late plants are subject to attacks of the cabbage fly, which destroys them as fast as they appear above ground. To preserve the plants, sprinkle them with slugshot or tobacco dust, or early in the morning while the plants are wet with dew.



McCullough's Early Louisville Drumhead Cabbage.

	Pkt.	Oz.	1/2lb.	Lb.
<b>McCULLOUGH'S EARLY LOUISVILLE DRUMHEAD.</b> Originated by us several years ago, and is still the peer of all other varieties for early market purposes throughout this section. It is highly esteemed by the market gardeners, and it will stand hot weather better than any other sort; will stand the entire summer without bursting—in fact, we produced heads that weighed 18 pounds on September 1st, having been planted with Jersey Wakefield which was long unfit for use. Our Louisville forms large, solid heads, and is the earliest large-heading variety, while, if planted later, it makes excellent heads for winter. The quality is very fine, and is remarkable for its certainty to head. For winter use, sow later in the season. We have received expressions of unanimous praise from all parts of the country, and could fill many pages of our catalogue with testimonials. . . . .	05	20	50	\$1 75
<b>ETAMPES.</b> One of the earliest cabbages, having solid, compact heads of conical form, and of a yellowish green color. . . . .	05	20	50	1 75
<b>EARLY WINNINGSTADT.</b> A solid and tender variety; good for either early or late. . . . .	05	15	45	1 40
<b>EARLY JERSEY WAKEFIELD.</b> (Select Stock.) An improved strain of this celebrated Cabbage. Heads hard and solid; pyramidal in shape, generally pointed at the end. . . . .	05	20	50	1 75
<b>CHARLESTON WAKEFIELD.</b> (American Growth.) An extra selected sort; will average about fifty per cent, larger in size than the old type of Wakefield, and is only a few days later. . . . .	05	20	50	1 75
<b>EARLY SPRING.</b> Fully as early as the Jersey Wakefield, but the heads are of the round, flat type of early summer. Stem short and heart very small, making almost entire head fit for use. The quality is extremely fine, veins small, and not the least signs of coarseness. The heads harden at an early stage of growth, so that they are really fit for use before fully matured. . . . .	05	20	50	1 75
<b>IMPROVED EARLY SUMMER.</b> A second early with large solid flattish heads, coming in a few days later than the Wakefield; a sure header. . . . .	05	20	50	1 75
<b>ALL HEAD EARLY.</b> The largest heading of the second early sorts, of excellent quality. The deep flat heads are solid, and uniform in size, of a compact growth, having few outer leaves. . . . .	05	20	50	1 75
<b>ALL SEASONS.</b> An Early Drumhead Cabbage, yielding heads of the largest size. Very desirable either for early, spring, summer or fall use. . . . .	05	20	50	1 75
<b>EARLY DWARF FLAT DUTCH.</b> Large solid heads, of fine flavor. An excellent variety. . . . .	05	15	45	1 45
<b>GLORY OF ENKHUIZEN.</b> One of the earliest with large solid heads, fine ribbed and first quality. The globe shaped outer leaves are very small, which admits of close planting. A money maker for market gardeners. . . . .	05	25	75	2 50
<b>IMPROVED BRUNSWICK.</b> A second early, large heading variety. Produces a fine, solid head of good quality. . . . .	05	20	50	1 75
<b>SUCCESSION.</b> A medium early round-headed sort, heads very evenly, and comes in a few days later than the Early Summer. . . . .	05	20	50	1 75
<b>SUREHEAD.</b> The heads are large, round, solid, tender and rich with few outer leaves. Flavor sweet, keeps well and is a good shipper. . . . .	05	20	50	1 75

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—Your early Louisville Drumhead Cabbage seed makes the finest cabbage any gardener can grow for a second early and also for Summer and Winter use. All your other seeds suit me.

Yours truly,

Madisonville, O.,

MILLER BROS. Market Gardeners.

The J. M. McCullough's Sons Co., Cincinnati, O.:

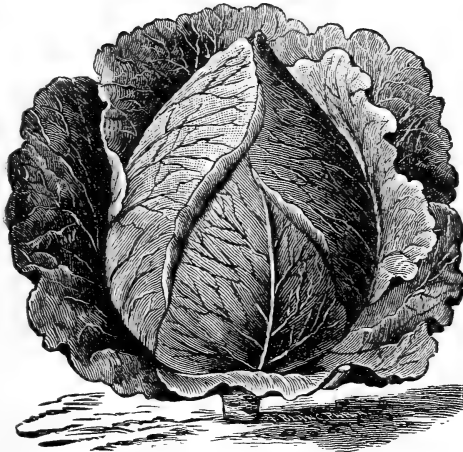
Gentlemen—I have been planting your garden seeds for three or four years and have always found them fresh and perfect in every respect. For that reason I've continued buying.

Yours truly,

Wynne, Ark., Sept. 19, 1905.

M. COLLINS.

# CABBAGE—Continued.



**Charleston Wakefield.**

**MCCULLOUGH'S PREMIUM LATE FLAT DUTCH.** pkt. oz. ¼lb. lb.  
 A variety for winter market; has no superior. Heads large, round, solid, broad and flat on top. They open white and crisp, are tender and well-flavored. The best variety for keeping. Our stock has been carefully selected for several years. No better strain on the market..... 05 15 50 \$1 75

**AUTUMN KING.** A fine strain of late Cabbage. It produces regular, even heads of **enormous size**, with few outer leaves..... 05 20 60 2 00

**DANISH BALLHEAD.** (Danish Grown.) Heads of good marketable size, averaging about eight pounds nearly round, solid and superior quality. As a keeper it excels all others, the heads taken out in the Spring being in every way, in as good condition as when stored..... 05 25 80 3 00

**LARGE LATE DRUMHEAD.** A favorite winter variety. The heads grow to very large size and heavy weight. They are solid, of good quality and texture, and have few loose leaves, allowing of planting closely in the field..... 05 15 50 1 75

**VOLGA.** Fully two weeks earlier than any of the late sorts; every plant produces a large, solid, perfect head, and the flesh is exceedingly firm, tender and white..... pkt. oz. ¼lb. lb.  
 05 25 75 2 75

## Savoy Cabbage.

They are particularly adapted to private use, where quality rather than quantity is desired. Grown in fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.

**EARLY DWARF ULM SAVOY.** One of the finest flavored sorts. Heads solid and with few outer leaves..... 05 25 80 3 00

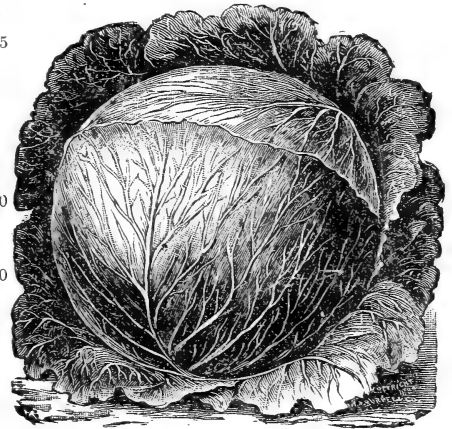
**AMERICAN DRUMHEAD SAVOY.** Heads large and very finely curled; short stalk and compact grower; an excellent keeper. Far superior to the ordinary imported Drumhead Savoy..... 05 20 60 2 00

## Red Cabbage.

**EARLY RED ERFURT.** Extremely early and valuable for pickling..... 05 25 80

**LATE GIANT RED ERFURT.** A large heading, late variety, fine for pickling..... 05 25 80

**MAMMOTH ROCK RED.** The largest and most solid of the red varieties; a sure heading sort and tender..... 05 25 60 2 00



**McCullough's Premium Flat Dutch.**

## CHICORY.

**LARGE ROOTED.** Used to mix with, or as a substitute for coffee. Cultivate as for Carrots. .... 5c pkt.; 10c oz.

**WITLOOF.** Known in restaurants as French Endive. Sow in May or June in drills. Transplant or thin to 6 inches apart. Late in Summer or Fall it should be gradually banked up like celery. The blanched stalks make a delicious salad. .... 5c pkt.; 20c oz.

## CHIVES.

Chives are of the onion type. Are grown early in the spring, for giving a mild flavor to various dishes. When planted in small clumps they will grow rapidly, and increase so as to render division necessary. If not allowed to flower will produce longer. .... 10c pkt.; 3 pkts. 25c

Plants per clump, 10c each, \$1.00 per doz. By mail, add 5c per clump.

## COLLARDS. (Blätter Kohl, Ger.)

One Ounce of Seed to 100 Yards of Row.

A loose-leaved plant of the Cabbage family. A hardy and excellent vegetable for winter use. The Collard succeed in localities where it is often difficult to grow Cabbage to perfection. Sow and treat as Cabbage.

**GEORGIA OR SOUTHERN.** Cabbage Greens. Its robust and vigorous character fits it to resist conditions unfavorable to the perfection of more highly developed types of the Cabbage family, and it is therefore, at some seasons, in the Southern States, the only available form of Cabbage..... 5c pkt.; 10c oz.; 30c ¼lb.

## CORN SALAD OR FETTICUS. (Ackersalat, Ger.)

One Ounce will Sow 20 Square Feet. Six Pounds for an Acre.

Used as a salad Winter and Spring. Sow in Spring, in drills one foot apart; will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September. Cover with straw on the approach of Winter, the same as Spinach.

pkt. oz. ¼lb. lb.  
**LARGE SEEDED**..... 05 10 20 60  
**SMALL SEEDED**..... 05 10 20 60

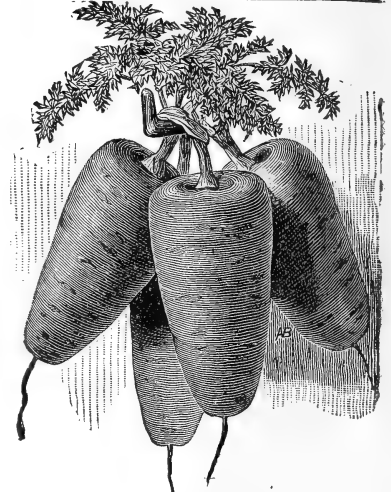


**Corn Salad.**

# CARROT. (Mohre, Ger.)

One Ounce Will Sow One Hundred Feet of Drill. Three Pounds for One Acre.

**E** LIGHT, sandy loam, well-tilled and manured the previous year. Best suits the Carrot. For early crop, sow as early as the ground can be worked, in drills ten inches apart, and thin, five inches in the rows. The French Forcing, owing to its extreme earliness, is used for hot-bed culture. The late sorts long and half-long varieties (main crop), sow from middle of May until first of July in drills twelve to fourteen inches apart. Thin out to six and seven inches in a row. Keep the hoe at work. Carrot seed is slow to germinate.

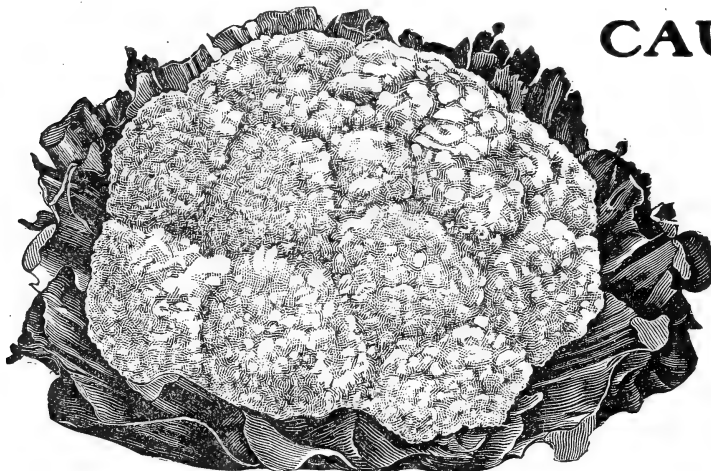


	Pkt.	Oz.	¼ lb.	Lb.
<b>FRENCH FORCING.</b> The earliest variety. It makes a small almost globe-shaped root, of an orange red color . . . . .	05	10	30	90
<b>EARLY SCARLET HORN.</b> The favorite early red summer variety; fine grained and good flavor . . . . .	05	10	25	75
<b>CHANTENAY HALF-LONG SCARLET.</b> A stump-rooted variety, resembling the Nantes Carrot, but having a larger shoulder, and more productive . . . . .	05	10	25	75
<b>DANVERS.</b> A cylindrical-shaped Carrot of good size, and stump-rooted, rich dark orange color, grows to a large size, smooth and the flesh very close in texture, with little core. . . . .	05	10	25	75
<b>IMPROVED RUBICON.</b> A beautiful half-long Carrot. It grows about same length as the Danvers, but thicker and a rich, dark orange color. It is an enormous cropper and a splendid variety for the market gardener . . . . .	05	10	25	75
<b>HALF-LONG SCARLET NANTES.</b> A stump-rooted variety, having little or no core. Flesh, red of fine flavor. It grows rapidly. It is tender, of good flavor and of a deep red color . . . . .	05	10	25	75
<b>GUERANDE OR OXHEART.</b> A thick Carrot, five inches long and blunt at the lower extremity. It grows rapidly. It is tender, of good flavor and of a deep red color . . . . .	05	10	25	75
<b>McCULLOUGH'S INTERMEDIATE.</b> The roots grow very regular and smooth, productive, rich color, sweet and tender flesh. Excellent variety for either field or garden . . . . .	05	10	25	75
<b>IMPROVED LONG ORANGE.</b> A standard late variety, handsome and uniform in shape; deep orange color, good flavor, yields heavily. It is of excellent table quality, and is highly nutritious for stock . . . . .	05	10	20	60

## FIELD VARIETIES FOR STOCK.

These are undoubtedly the most valuable of all the roots usually grown for stock. They are more nutritious than Turnips and nearly all animals like them and are benefited by them. The seed may be sown at any time in April until the end of May.

	Pkt.	Oz.	¼ lb.	Lb.
<b>IMPROVED GIANT SHORT WHITE.</b> The heaviest cropping Carrot grown. The flesh is white, solid, crisp and sweet, the roots are short and heavy at the shoulder which allows them to be harvested easily. They do not break easily in pulling or storing, owing to their solidity and shape . . . . .	05	10	20	60
<b>IMPROVED LONG ORANGE.</b> See above.				
<b>LARGE WHITE BELGIAN.</b> The lower part of the root is white; that growing and exposed above ground, green. It is exclusively grown for stock . . . . .	05	10	20	60



McCullough's Earliest Dwarf Erfurt Cauliflower.

# CAULIFLOWER.

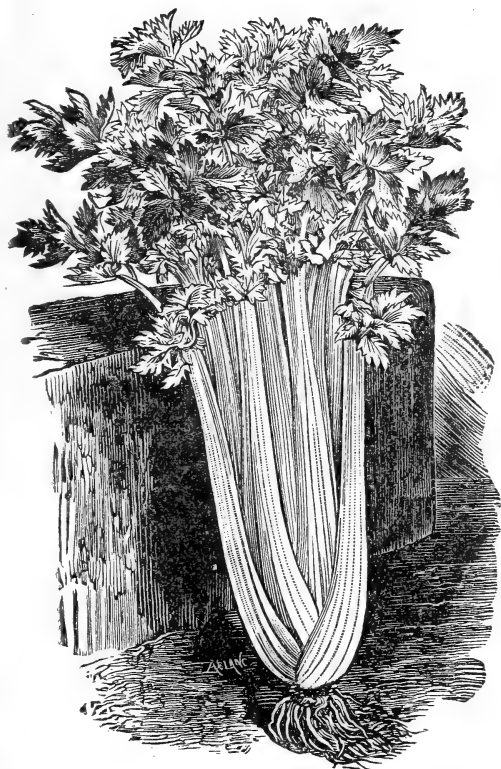
(Blumenkohl, Ger.)

OUR SPECIALTY

One Ounce of Seed for 1500 Plants.

**CULTURE**—For early use, sow in hot-beds in January and February. When plants are large enough, transplant three inches apart in boxes or other hotbeds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be worked, 2 ½ feet apart each way. When practicable, seed may be sown in rich soil from the middle of September to middle of October, and trans-plant in frames, protect during severe weather and give light and air on mild days. The early varieties should be brought to maturity before Summer heat sets in. The late sorts mature in the autumn and are cultivated same as Winter Cabbages. **Special Prices given to Market Gardeners and others who use large quantities of Seed.**

	Pkt.	¼ oz.	1 oz.
<b>McCULLOUGH'S EARLIEST DWARF ERFURT.</b> This has become more popular, market gardeners grow it entirely, having discarded the older varieties, as they find our strain the surest heading. On account of its dwarf and compact habit, the plants may be set out twenty-two inches each way, so that twelve thousand can be planted on an acre. For pickling it is the standard size, compact and solid texture of the snow-white heads, combined with the delicious flavor, surpasses all . . . . .	25	\$1 25	\$4 00
<b>EARLY SNOWBALL.</b> (True.) Extremely early, dwarf, producing magnificent white heads. Well adapted to hot-bed culture . . . . .	20	90	3 00
<b>DANISH GIANT.</b> A large heavy sort, maturing soon after our Earliest Dwarf Erfurt. It is without exception the best and surest heading of all for summer use . . . . .	20	90	3 00
<b>LARGE EARLY ERFURT.</b> This is a vigorous growing variety, with large, white firm heads. One of the best sorts for a second or late crop . . . . .	10	25	75
<b>EARLY PARIS.</b> Heads large, white, compact and solid; tender and delicious; leaves large stalks short . . . . .	05	20	60
<b>LENORMAND'S SHORT STEM.</b> Large, late, short stem, with well-formed white heads, of extra quality . . . . .	05	20	60
<b>VEITCH'S AUTUMN GIANT.</b> One of the finest late varieties, of robust habit, heads large, compact, and thoroughly protected by the leaves. . . . .	05	20	50



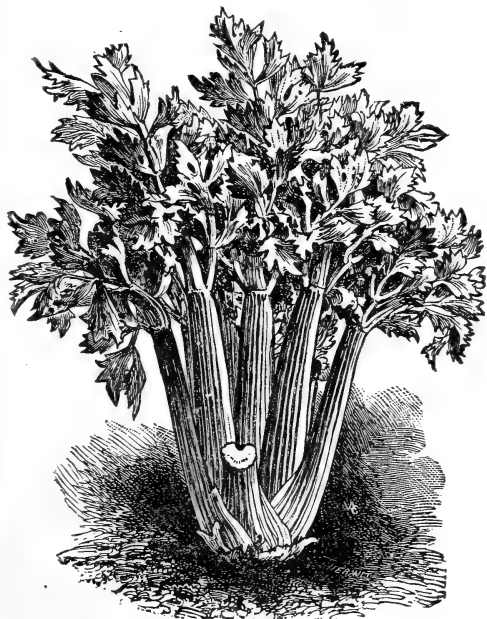
Paris Golden Yellow.

# CELERY. (Selleric, Ger.)

One Ounce Will Produce About 2500 Plants.

**T**o grow early Celery, sow the seed late in March in a hotbed or box and for later crops, in the open ground, as soon as the weather becomes warm, cover lightly, or better still, roll or press it in. Shade the young plants for a week or ten days, and do not let the soil dry out. The tops may be shorn off once or twice before planting, so as to insure "stocky" plants, which will suffer less on being transplanted. When from four to six inches high, transplant into broad, shallow trenches, or on the level ground, setting the dwarf sorts into rows three feet apart, and the tall varieties four feet apart, and six inches apart in the rows. The soil should be light, highly manured, partially shaded and moist, or near water, as the plant must be freely watered in dry weather but it should not be put directly on them. Earthing up checks growth and should not begin until quite well grown, then earth up gradually, keeping the leaf stocks close together, so that the soil may not fall into the center of the plant, but never earth up in wet weather, nor when dew is on them. That intended for winter and spring use needs little banking; when stored for winter it will naturally bleach beautifully white.

- |   |                            |
|---|----------------------------|
|   | Pkt. Oz. ¼ lb.             |
| <b>MCCULLOUGH'S PARIS GOLDEN YELLOW.</b> The best Celery for early use. Its rich, golden, yellow color, close habit and compact growth, and the readiness with which it is bleached and rendered marketable makes it invaluable to the gardener and exceedingly popular with every planter. The entire stock is solid and crisp .....           | 05 40 1 50                 |
| <b>GOLDEN SELF-BLANCHING.</b> An early beautiful and desirable sort, requiring but little labor to blanch. The heart is a rich, golden yellow, with light, yellowish-green outer leaves .....   | 05 30 1.00                 |
| <b>GOLDEN ROSE SELF-BLANCHING.</b> An early variety. Color, rose, shading to pale pink at top of stalk; the ribs are prominent and the stem thick, solid and brittle; being of hardy nature, it possesses good keeping qualities, and positively self-blanching, it bleaches to a beautiful golden yellow at the heart. Excellent quality ..... | 05 20 60                   |
| <b>PINK PLUME.</b> A perfect White Plume, except that the stalks are suffused with pink, and possessing the crispness, rich nutty flavor and long keeping qualities peculiar to red sorts .....   | 05 20 60                   |
| <b>SNOW WHITE.</b> A pure white, self-blanching variety, vigorous growth, ease of blanching, size, richness of flavor, crispness and purity, makes it an ideal celery .....   | 05 20 70                   |
| <b>WHITE PLUME.</b> We offer a choice strain of this valuable and popular variety. The White Plume is unsurpassed for fall and early winter use, requiring very little earthing up to blanch it .....   | 05 20 60                   |
| <b>BOSTON MARKET.</b> A great favorite around Boston. The stalks, when blanched, are nearly white. It is an excellent variety, solid, crisp and tender .....  | 05 20 60                   |
| <b>GIANT PASCAL.</b> A superior keeping sort. The stalks are very large, thick, solid, crisp, and of rich nutty flavor; it blanches very easily and quickly, and retains its freshness a long time. ....  | 05 20 60                   |
| <b>GIANT WHITE SOLID.</b> The best of the large growing sorts. It should never be planted closer than four feet between the rows. This variety is suitable for Southern sections of the country, as it grows freely in a hot or dry atmosphere .....  | 05 20 60                   |
| <b>GOLDEN-HEARTED DWARF.</b> A popular variety. Handsome color, medium size, fine flavor .....  | 05 20 60                   |
| <b>PERFECTION HEARTWELL.</b> One of the best varieties, stalk long and thick, very compact, crisp, and of fine flavor .....   | 05 15 50                   |
| <b>TRIUMPH.</b> The best late celery. A strong and vigorous grower, with very large but crisp, brittle, tender and fine flavored stalks. Will keep longer than any other sort .....   | 05 20 60                   |
| <b>SOUP, OR FLAVORING CELERY.</b> Used for flavoring pickles, sauces, etc. ....   | 5c oz.; 10c ¼ lb.; 20c lb. |



Giant Pascal.

## CELERIAC, TURNIP ROOTED CELERY.

Sow early in spring. Transplant in May into rich, mellow soil in rows eighteen inches apart and six inches in the row. Water in dry weather; little or no earthing up is required. One ounce will sow fifty feet of row. Pkt. Oz. ¼ lb. Lb.

<b>LARGE ERFURT.</b> Roots, when sliced, and used with vinegar and oil, makes a delicious salad .....	05 15 40 \$1 25
<b>APPLE-SHAPED.</b> New large tubers, almost round and quite smooth. ....	05 15 40 1 25

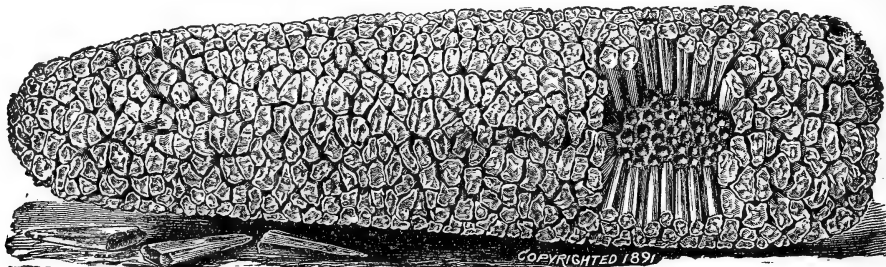
All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted: Half-Pounds, Pounds, Pints, Quarts, and larger quantities, if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and six teen cents per quart.



# CORN SWEET OR SUGAR.

One Quart Will Plant 300 Hills. Eight to Ten Quarts for an Acre in Hills.

**C**HE Sweet or Sugar varieties being liable to rot in cold or wet ground, should not be planted before May or until the ground has become warm, and for a succession continue planting every two weeks until the middle of July, in rich well manured ground, in hills three feet apart each way, covering about half an inch, and then thin out three plants to a hill, or plant in rows four feet apart, and to stand eight inches apart in the rows.



Country Gentlemen Sugar Corn.

	Pkt.	Pt.	Qt.	Pk.
<b>ADAMS' EXTRA EARLY.</b> The hardiest and earliest variety for table use, but not a Sugar Corn; can be planted earlier than any other corn . . . . .	05	10	15	\$0 85
<b>ADAMS' EARLY.</b> While not a Sugar Corn, is a tender white Corn for the table; can be planted earlier and will be ready in sixty days . . . . .	05	10	15	85
<b>PREMO.</b> The best extra early variety. It can be planted early, as the young plants will withstand slight frosts. The stalks are strong and vigorous, growing about 5 feet in height, bearing one or two fine ears to a stalk. The ears are large for so early a variety. The grains are of medium size, well filled to each end of the ear, and of a fine sweet flavor . . . . .	05	15	25	1 00
<b>EARLY SHEFFIELD.</b> Very early variety. The stalks are strong and vigorous, bearing one or two fine ears to a stalk. The ears are large and entirely free from smut. The grains are of medium size, ten or twelve rowed, well filled to each end of the ear; juicy, and of a fine sweet flavor . . . . .	05	15	25	1 00
<b>GOLDEN BANTAM.</b> An extra early variety of vigorous growth and surpassing delicious flavor. The stalks grow about four feet high, and bear two and three good ears averaging 6 inches in length. The broad yellow grains extend to the extreme rounded tip. An excellent variety for market gardeners, as the distinct color and splendid flavor makes it one of the best sorts for successive plantings . . . . .	05	15	25	1 50
<b>KENDAL'S EARLY GIANT.</b> Very early, fit for use sixty days from planting. Ears large, 8 to 10 inches in length, twelve rows to a cob. Kernels pure white, sweet and tender . . . . .	05	15	25	1 00
<b>MAMMOTH WHITE CORY.</b> An extra early sweet corn. Ears, twelve-rowed; twice the size of the old Cory, white-cobbed and covered with large white grains of extra quality . . . . .	05	10	20	1 00
<b>EARLY MINNESOTA.</b> Very early and desirable, alike in the market or family garden. Ears of fair size and good quality . . . . .	05	10	20	1 00
<b>CROSBY'S EARLY.</b> A great favorite; productive and of excellent quality . . . . .	05	10	20	1 00
<b>EARLY MAMMOTH.</b> A second early variety. The ears are of large size, tapering well toward the point; kernels large and very sweet . . . . .	05	15	25	1 10
<b>OHIO MONARCH.</b> Ears of large size, deep kernels, tender and sugary; very productive . . . . .	05	15	25	1 10
<b>BLACK MEXICAN.</b> A black-grained variety, sweet and tender, must be picked young to avoid a black appearance when cooked . . . . .	05	15	25	1 50
<b>COUNTRY GENTLEMEN.</b> Will delight the most fastidious epicure, retaining its delicate tenderness and flavor even when a little old. The ears are of good size, are produced in abundance, averaging three good ears to the stalk. The cob is small, giving great depth to the kernels, but the great merit is its delicious quality . . . . .	05	15	25	1 25
<b>EGYPTIAN.</b> A fine large variety, somewhat resembling the evergreen; flavor rich and sweet, and of superior quality . . . . .	05	15	25	1 10
<b>MAMMOTH SUGAR.</b> A late variety producing ears of very large size and fine flavor. It is unusually productive . . . . .	05	15	25	1 20
<b>EARLY EVERGREEN.</b> A selection from Stowell's Evergreen, possessing all its good qualities, but coming in ten days ahead of that famous variety . . . . .	05	15	25	1 00
<b>STOWELL'S EVERGREEN.</b> Standard-variety, both for home use and market, and is the general favorite. The ears are of a large size, grains deep, exceptionally tender and sugary, and has the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best of all late sorts . . . . .	05	10	20	1 00
<b>WHITE EVERGREEN.</b> A valuable main crop variety. The stalks are of vigorous growth. The ears very large, and uniformly well filled to the tip with long slender grains of the purest whiteness and most delicious sweet flavor . . . . .	05	15	25	1 25
<b>ZIG-ZAG EVERGREEN.</b> This is one of the sweetest and best late Sweet Corns. The ears are as large as those of the Evergreen, but the kernels are placed irregularly or zig-zag upon the cob, which is always an indication of great sweetness in any variety of sugar corn . . . . .	05	10	20	1 00

## SEED POP CORN.

Plant Two Quarts to the Acre.

Pt. Qt.

<b>WHITE RICE.</b> A handsome variety, kernels long and pointed, very prolific . . . . .	10	20
<b>QUEEN'S GOLDEN.</b> The stalks grow six feet high, and the large ears are produced in abundance. It pops perfectly white . . . . .	10	20

We always have in stock a large supply of old corn for popping, and are prepared to fill all orders at market prices.

## CRESS.

Sow thickly in shallow drills early in the spring, and at intervals throughout the season, for a succession, as it runs to seed. Water Cress requires a stream of running water, ditch or pond; it will grow without care, except at first, keeping weeds from it.

**EXTRA CURLED OR PEPPERGRASS.** Fine flavor, and the best for dry soils . . . . . 5c pkt.; 10c oz.; 20c 1/4lb.  
**ERFURT WATER CRESS.** A desirable and appetizing salad, thriving best in shallow water, on the edges of streams. .5c pkt.; 35c oz.

The J. M. McCullough's Sons Co., Cincinnati, O.

Dayton, Tenn.,

Dear Sirs—Last spring I planted some of your Alaska peas rather as a trial test. We find them all they were recommended, and in fact they excel anything of the kind every time in yield and in quality; ready for market early when money is needed. We can heartily recommend them as the Pea for the farmer.

Respectfully,

H. H. SHAVER.

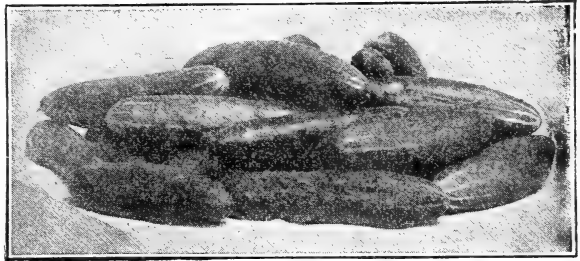
All Seeds in **Packets, Ounces and Quarter Pounds** only, are sent free by Mail, at prices quoted: **Half-Pounds, Pounds, Pints, Quarts and larger quantities**, if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

FIELD CORN SEE PAGE 36.

# CUCUMBERS. (Gurken Ger.)

One Ounce of Seed for 50 Hills. Two Pounds for an Acre.

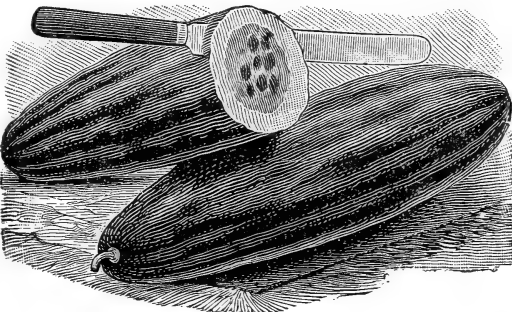
**F**OR early use sow in hot-houses on small sods overturned, or in small pots plunged in earth. As soon as danger from frost is over, transplant with sod, so as not to disturb the plants, into hills in the open ground. For general crop sow from about the first to the middle of May in rich, mellow, warm soil. Use a shovel full of well rotted manure in each hill, and cover it two inches deep with the earth. On this sow the seed, about eight or ten seeds to a hill: cover one-half inch with earth and press down. When danger from bugs is past, thin out to four plants to a hill. For pickles, plant from June to middle of July. Always pick the fruit when ready, even if not needed, otherwise the productiveness of the vine is destroyed.



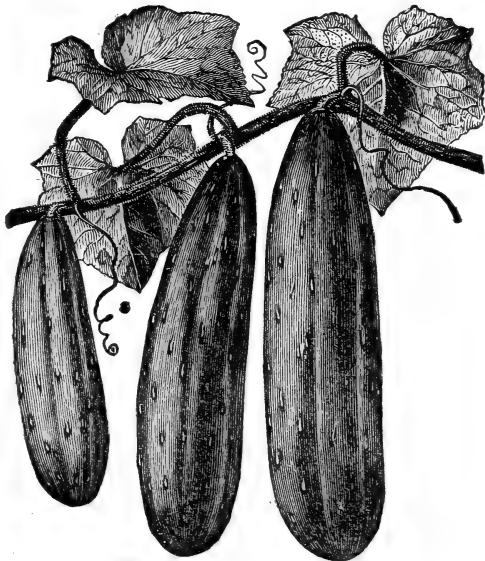
DAVIS PERFECT.

Pkt. Oz. 1/4lb. Lb

<b>MCCULLOUGH'S SPECIAL.</b> An excellent Cucumber for both forcing and out-door use. The fruits grow 11 to 15 inches long, slim, slightly pointed, a dark glossy green color, which they keep until ripe. In quality it is very tender, brittle and of fine flavor. A vigorous grower, withstanding blight better than other long sorts . . . . .	05	20	50	1 50
<b>OHIO WHITE SPINE.</b> This is the best strain of extra early white Spine for the market gardeners' out-door growing. It is hardy and an excellent shipper. It is extensively grown in the South for shipping North, early in the season. Fruit grows 7 to 10 inches long, of a deep green color, and full at both ends . . . . .	05	10	30	1 00
<b>COOL AND CRISP.</b> A standard prolific early variety of good size suitable for pickling and table use, crisp and tender . . . . .	05	10	25	80
<b>CUMBERLAND.</b> A rapid, strong and vigorous grower, and very prolific. The pickles are set with fine spines over the entire surface, except the extreme stem end; the form is straight and symmetrical, thus being as choice as a slicing variety as it is for pickles. The flesh is firm, but crisp and tender at all stages . . . . .	05	10	25	80
<b>DAVIS PERFECT.</b> Splendidly adapted for growing either under glass or in the garden. In color, a dark, glossy green; shape, slim and symmetrical, with an average length of 10 to 12 inches. They are as early as the earliest strain of White Spine. On account of their being such strong growers they are able to resist the cucumber disease, which works destruction among so many of the best forcing varieties . . . . .	05	20	40	1 25
<b>EARLY BOSTON MARKET.</b> Largely used about Boston by market gardeners. Very productive . . . . .	05	10	30	1 00
<b>EARLY CLUSTER.</b> A much-esteemed early variety, growing in clusters; is extremely productive . . . . .	05	10	25	80
<b>EARLY FRAME.</b> A good variety for pickling and table. Of medium size . . . . .	05	10	25	80
<b>EVERGREEN.</b> It is very early, and the cucumbers retain their beautiful green color longer than any other sort. One of the best varieties for slicing, as it is crisp and of good quality; and as it produces fruit of medium size, it is good for pickling purposes . . . . .	05	10	25	80
<b>GREEN PROLIFIC.</b> One of the best pickling varieties; dark green tender, crisp, very productive; good for table use . . . . .	05	10	25	80
<b>IMPROVED WHITE SPINE.</b> The favorite market variety, largely used for forcing and extensively grown South for shipping North early in the season. The fruit grows from seven to ten inches long, is quite smooth, of a deep green color, and full at both ends . . . . .	05	10	30	1 00
<b>JERSEY PICKLE.</b> As a pickling variety, is unsurpassed. Its characteristics are its uniform sort, crisp and tender, very prolific, excellent for the table, and makes a hard, brittle pickle . . . . .	05	10	25	80
<b>LONDON, OR LONG GREEN.</b> A standard late sort, crisp and tender, very prolific, excellent for the table, and makes a hard, brittle pickle . . . . .	05	10	30	1 00
<b>NICHOLS' MEDIUM GREEN.</b> One of the best for pickling, and excellent for forcing or slicing. Always straight and smooth. In length it is between White Spine and Long Green . . . . .	05	10	30	1 00
<b>JAPANESE CLIMBING.</b> It is suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table or pickling . . . . .	05	15	50	
<b>GHERKIN.</b> A very small, prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender . . . . .	05	25	75	



COOL AND CRISP.



LONG GREEN.

**NICHOLS' MEDIUM GREEN.** One of the best for pickling, and excellent for forcing or slicing. Always straight and smooth. In length it is between White Spine and Long Green . . . . .

**JAPANESE CLIMBING.** It is suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table or pickling . . . . .

**GHERKIN.** A very small, prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender . . . . .

## ENGLISH FORCING CUCUMBER.

The best for forcing, attaining a length of twenty to thirty inches. They can be grown in hot-beds, where the temperature does not fall below 65 degrees at night.

**DUKE OF EDINBURG.** Very large and long, dull green, quite smooth . . . . . Packet of 10 seeds, 25c.

**TELEGRAPH.** Free bearing, long and extensively grown . . . . . " 25c

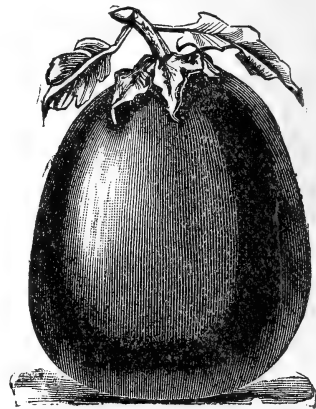
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# EGG PLANT. (Eierpflanze Ger.)

One Ounce Will Produce About 1,000 Plants.

**CULTURE**—The seed requires a strong heat to germinate. Sow in a hotbed early in spring, when the plants are two inches high transplant. Plant out when the weather becomes settled and warm. Give them a deep rich soil; full exposure to the sun. When they germinate they are sensitive to damp and being chilled, consequently the amateur often fails to raise them, even with his own hotbed. To obviate this we will have a supply of strong potted plants from the middle of May to the first of July.

**BLACK BEAUTY.** This beautiful Egg Plant is ten days earlier than New York Improved. The fruits are broad and thick, of most attractive form, as shown in the illustration. The skin is a rich lustrous purplish black. This intensely brilliant coloring is uniform over the whole fruit and does not fade or change to a lighter color at the blossom end. The calyx, which attaches the fruit to the stem, is bright green, contrasting finely with the dark satin skin of the fruit, which is entirely free from spines or thorns. The fruits set most freely and are ready for market early, so that the entire crop can be gathered before there is any danger of frost. Our strain of seed is of superior quality, as we produced fruits this season that eclipsed all other varieties.



Black Beauty.

**NEW YORK IMPROVED.** This is the leading market variety everywhere. Plant is robust, the leaves and stem being thickly set with spines, which are not found to any extent on the other varieties.

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

# ENDIVE. (Endivien Ger.)

One Ounce of Seed to 150 Feet of Row.

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 two or three inches high transplant into good ground, or thin out to one foot apart. When nearly full grown, they must be blanched. 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.

**BROAD-LEAVED BATAVIAN.** Leaves broad, light green, nearly plain, used in stews and soups. . . . . Pkt. oz. ¼ lb  
**GREEN CURLED.** Very hardy, crisp and tender. . . . . 05 15 50  
**MOSS CURLED.** It is excellent for winter use. . . . . 05 15 50  
**WHITE CURLED.** A very beautiful variety. Leaves coarser than those of the Green Curled, but the mid-rib is yellow and the leaves frequently almost white; plants very attractive. . . . . 05 15 50

# KOHL-RABI. (Turnip Rooted Cabbage.)

One Ounce of Seed for 1,500 Plants.

For an early crop, start in a hotbed and treat the same as early Cabbage. For winter use, sow the middle of June. The stems just above the ground swell into a bulb, resembling a turnip.

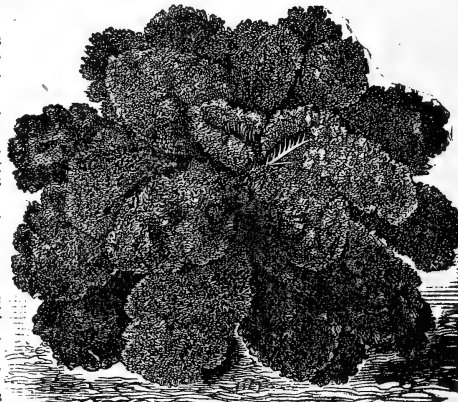
**EARLY WHITE VIENNA.** The flesh is white and tender. . . . . Pkt. Oz. ¼ lb  
**EARLY PURPLE VIENNA.** Differs from the above in color. . . . . 05 20 50

# KALE OR BORECOLE. (Blaetter-Kohl Ger.)

One Ounce to 100 Yards of Drill.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. Sow from May to June, and cultivate the same as Cabbage. For early spring use, sow in September, and protect during the winter.

**NORWOOD DWARF CURLED.** A beautiful curled and crimped sort, of strong, vigorous habit, attractive appearance and a bright green color. It is superior to all other sorts, and is, undoubtedly, the best for private gardens. It rarely exceeds twelve inches in height, but spreading out under good cultivation to two feet in diameter. It will stand out where the temperature does not fall below zero.



Norwood Kale.

5c pkt. 10c oz.; 25c ¼ lb. 65c lb.  
**DWARF CURLED GERMAN OR SIBERIAN.** Leaves yellowish-green finely curled. Sow in September for early winter and spring use.  
 5c pkt.; 10c oz.; 20c ¼ lb.; 40c lb.

**MARKET GARDENERS' SPECIAL.** A beautifully curled and crimped variety, of strong, vigorous habit, perfectly hardy, bright green color and very attractive in appearance. Superior to all other sorts, and will stand longer without shooting to seed.  
 5c pkt.; 10c oz.; 25c ¼ lb.; 65c lb.

**TALL SCOTCH.** Leaves green, beautifully curled and wrinkled; grows about two feet in height, hardy; being improved by frost.  
 5c pkt.; 10c oz.; 25c ¼ lb.; 85c lb.

# LEEK. (Lauch Germ.)

Sow early in April, in drills one foot apart, one inch deep. When the plants are six to eight inches high, transplant in a deep rich soil in rows twelve inches apart and six inches in the rows, as deep, as possible, so that the neck may be covered and blanched. Draw the earth to them as they grow. The seed may also be sown in August or September, and the young plants transplanted in the spring.

**LARGE AMERICAN FLAG.** This is by far the best variety. It grows to a good size and is wonderfully uniform. . . . . Pkt. Oz. ¼ lb. Lb  
 This is preferred by our most critical market gardeners. . . . . 05 20 50 \$1 40  
**LONDON FLAG.** An old and popular sort; one of the hardiest and best for winter use. . . . . 05 15 40 1 15  
**LARGE MUSSELBURGH.** Of enormous size; leaves large and broad, very mild, pleasant flavor. . . . . 05 20 60 1 40

The J. M. McCullough's Sons Co., Cincinnati, O.:

San Luis Obispo, Cal.,

Dear Sirs—With regard to the Garden Seeds shipped me last spring, beg to state that they proved very fertile, varieties distinct, and quality excellent.

Thanking you for past favors, I remain,

Yours sincerely,

GEORGE IRVIN.



# LETTUCE. (Lattich oder Garden Salad, Ger.)

One Ounce Will Sow 150 Feet of Drill.

**CULTURE**—Sow in hotbeds in February or March, and transplant in April. Seed may also be sown in September and wintered in the same manner as Cauliflower. For successive crops, sowings may be made in the open ground as early as the spring opens, and continuing until July. Always thin out well, or the plant will not be strong. When wanted as a cut salad, sow the seed thickly in rows or broadcast.

## Head Varieties.

### McCULLOUGH'S SELECTED NONPAREIL.

The finest market variety. Its beautiful yellowish-green color, crimped, curled and well formed heads, tender quality and sweet flavor, place it at the head of the list for the market gardener or for family use. It withstands the heat of summer and retains its sweetness for a long time.

5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

### ALL SEASONS. Forms large and solid heads.

The leaves are light green and the head being very large, there are a great many large crisp, tender blanched inside leaves. It is hardy and stands extremes of climate better than other sorts. Is slow to seed and is suitable for both early and late sowing.

5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.



McCullough's Nonpareil Lettuce.

	Pkt.	Oz.	¼ lb.	Lb.
<b>BIG BOSTON.</b> Resembles the popular Boston Market, but is nearly twice as large; desirable for forcing in frames and for spring and fall outdoor planting	05	15	40	\$1 25
<b>BOSTON MARKET.</b> An improved variety of the Tennis Ball, and attains a large size. It grows very compact, is white and crisp, and is one of the best varieties for forcing	05	15	40	1 00
<b>BROWN DUTCH.</b> A dark, brown-spotted variety, remarkable for its hardiness. The inner leaves are beautifully blanchd, and very sweet and tender	05	15	40	1 00
<b>DENVER MARKET.</b> Highly recommended, either for forcing or open ground; forms large solid heads of a light green color; is slow to seed. The leaves are curled and crimped, crisp and tender	05	15	40	1 00
<b>IMPROVED—HANSON.</b> Forms very large firm heads, which are deliciously sweet, crisp and tender; heads green outside and white within; for outdoor culture unexcelled	05	15	40	1 00
<b>IMMENSITY.</b> The plants are of strong, vigorous growth, the leaves are a rich bright green and grow well up around the large heads. They will measure eight inches and over and are tightly folded, so that the interior portion is beautifully blanchd, crisp and tender with a mild sweet flavor. It is one of the best late heading varieties	05	15	40	1 00
<b>MAMMOTH BLACK SEEDED BUTTER.</b> Heads large, solid, blanching to white at center. Leaves smooth thick brittle, tender and extra fine flavored. Long standing	05	15	40	1 00
<b>MAY KING.</b> A very early and extra fine variety for spring and fall use in the open garden; also for growing in cold frames during the winter months. The heads are six to seven inches in diameter, with the light green outer leaves folding closely about the round, solid heads. The inner leaves are blanchd to a golden yellow and have a fine rich buttery flavor. We recommend repeated plantings in the spring and fall	05	15	40	1 00
<b>SILVER BALL.</b> This is one of the best all-the-year-round Lettuce. It is an excellent variety, as well for early spring and summer use as for winter forcing. The heads are silvery white, very firm and compact	05	15	40	1 00
<b>TENNIS BALL, BLACK SEEDED.</b> A favorite forcing variety, forming a large head. It makes but few outer leaves, and for this reason can be planted quite closely under a glass	05	15	40	1 00
<b>TENNIS BALL, WHITE SEEDED.</b> The sort so extensively grown for forcing and heading under glass; good size; firm heads and very white and crisp	05	15	40	1 00
<b>YELLOW-SEEDED BUTTER.</b> A distinct sort, making a compact yellow head, of excellent flavor, withstands heat well and remains crisp and tender	05	15	40	1 00

## Curled Varieties.

<b>BLACK SEEDED SIMPSON.</b> One of the most popular sort. It forms large loose leaves, very tender, and of good quality. One of the best sorts for use under glass as well as for early outdoor planting	05	15	40	1 00
<b>BON-TON.</b> A splendid variety. The plants grow to a large size and stand a long time, even in hot weather, before going to seed. For the home garden and market gardener, who raise Lettuce under glass for the winter market, the <b>Bon-Ton</b> is extremely valuable by reason of its quick growth, large size, attractive golden color and crisp, sweet flavor	05	15	40	1 00
<b>EARLY CURLED SIMPSON.</b> Does not head, but forms a close, compact mass of leaves very early	05	15	40	1 00
<b>GRAND RAPIDS.</b> One of the best varieties for forcing, being of quick growth, little liable to rot and standing for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, light yellowish-green leaves, slightly crimped and blistered, which will stand shipping long distances	05	15	40	1 00
<b>EARLY CURLED SILESIA.</b> Early, loose heads, curled, tender and fine flavor	05	15	40	1 00
<b>OAK LEAVED.</b> Very distinct, excellent for summer use and for growing in the South, as it resists the greatest heat	05	15	40	1 00
<b>PRIZE HEAD.</b> This popular variety produces large, loose heads, finely crimped and fringed leaves, outer portions shaded brown; crisp, sweet and tender	05	15	40	1 00
<b>PARIS WHITE COS.</b> Tender and crisp. One of the best varieties for blanching	05	15	40	1 00
<b>TRIANON COS.</b> A self-blanching Cos Lettuce, very crisp and tender, and of excellent flavor. The leaves when bleached are stiff like celery stalks, and can be eaten in the same manner	05	15	40	1 00

The J. M. McCullough's Sons Co., Cincinnati, O.

Barton, Ark.

Dear Sirs—I am pleased to state to you that I was well satisfied with the seed and plants I bought from you last Spring. My deceased husband ordered all his seeds from your house, and was well served. It is a pleasure for me to recommend you to all  
Very Respectfully,  
MRS. M. HAUSELMANN.

Cincinnati, O.,

The J. M. McCullough's Sons Co., Cincinnati, O.,

Dear Sirs—Have bought my cabbage seed from you for several years, and they always gave satisfaction. Have tried others, but consider yours the best there is.

Very truly yours,

E. Columbia St. JACOB ROETELE, Market Gardener.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-Pounds, Pounds, Pints, Quarts, and larger quantities if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

## MUSHROOM SPAWN.—(Champignon Brut. Ger.)

One pound will spawn about ten feet square. If ordered by mail, add eight cents per pound for postage.

**C**ULTIVATING mushrooms successfully does not always require extensive experience. Some care is necessary, however, in the selection of materials, and in forming the beds; but the matter of securing and maintaining the proper temperature in the room and in the beds needs close attention, for success depends very much upon this point. Mushrooms may be grown in a great variety of situations—a dark room, cellar, stable or elsewhere. Any place in which an even temperature of about 50° to 60° can be kept is suitable. For material for the bed, use fresh horse manure free from straw or chips, and good loamy soil. Some growers use the manure mixed with loam, after first having well fermented it by alternately piling it and mixing for a few weeks, but it is undoubtedly better not to allow the manure to heat much before forming a bed. Use one-fourth to one-third loam the rest manure. Mix very thoroughly; and upon a dry firm bottom make the bed of this mixture, about four feet wide and of any desired length. Build it up evenly, press it down firmly, and leave it about a foot high. It will shortly begin to heat. Use a thermometer to thrust into the bed and note the temperature. When the heat has partially subsided, leaving a temperature of 80° put in the spawn. Pieces from the size of walnuts to that of eggs are placed in the bed about a foot apart, deep enough to cover them well, and the manure pressed down. Let it remain thus ten or twelve days, then cover with two inches of fresh loam, and make this moderately firm. The bed is finished by covering all with four or five inches of straw or other litter. Watering is not necessary, unless the surface of the bed gets very dry; in this event moisten freely with water at a temperature of about 90°. In gathering the crop, do not cut, but twist them off carefully, filling up the holes with loam to keep insects from the roots. In six or eight weeks from spawning the beds mushrooms should appear.



Mushrooms.

**OUR CELEBRATED ENGLISH MILLTRACK MUSHROOM SPAWN** (made by the best maker in England especially for our trade, has gained an enviable reputation among critical growers for its uniform good quality and can be thoroughly relied on to produce a good crop of the best mushrooms. . . . . 25c per lb.; 30c per brick postpaid  
By Express 15c per lb.; 20c per brick; \$1.00 for 10 lbs.; \$9.00 for 100 lbs.

**PURE CULTURE SPAWN.** Formerly all Mushroom Spawn was obtained from wild Mushrooms growing along the English mill tracks. By scientific research Spawn makers now produce Spawn from select Mushrooms from their own cultivated beds. The bricks of Spawn are now inoculated directly from the test tube-cultures, thus producing a stronger and quicker growth, both in the brick and in the planted beds; neither was formerly possible when Spawn cultures were so very scarce. Our manufacturers are the most successful growers in the United States.

**Pure Culture Spawn made direct from Spores of fully developed Selected Specimens.** .35c per brick, \$1.50 for 5 bricks postpaid  
By Express 10 bricks \$1.85; 25 bricks \$4.25; 100 bricks \$15.00

**MUSHROOM CULTURE—**Wm. Falconer. The most practical work on the subject . . . . . **\$1.00**  
**TREATISE ON MUSHROOM CULTURE—**10c. or given with an order of 10 lbs. of Mushroom Spawn or over.

## MELON—Musk. (Zucker Melone, Ger.) One Ounce will plant about 60 Hills. Two to Three Pounds in Hills per Acre.



Extra Early Hackensack.

**I**N SELECTING a patch for melons, be careful to have it at a safe distance from your Squashes, Cucumbers, Pumpkins, etc., or they will certainly mix. In preparing the hills fork in plenty of manure and about the middle of May, when the ground is warm, plant in each hill eight or ten seeds, and cover half an inch deep. After the danger from bugs is over, pull all but three or four of the strongest plants. As soon as the vines have run sufficiently and spread their branches, stop them by pinching the top off the first running bud. This will strengthen the plants, and promote their perfecting fruit early. The ground should be kept free from weeds and frequently cultivated.

Pkt. Oz. ¼lb. Lb.

- ACME.** Medium size, oval, slightly pointed at end, ribbed, covered when ripe with coarse netting. Flesh thick, green, very fine flavored and sweet. . . . . 05 15 45 1 50
- BURRELL'S GEM.** The melons grow to a desirable size, having slight rib and close netting. The flesh is a beautiful dark salmon or orange; skin dark green and rind thin, leaving a thick lining of flesh which is of delicious, juicy flavor. . . . . 05 15 45 1 50
- EARLY NETTED GEM.** Very early, small, coarsely netted green flesh, fine flavored. . . . . 05 10 25 80

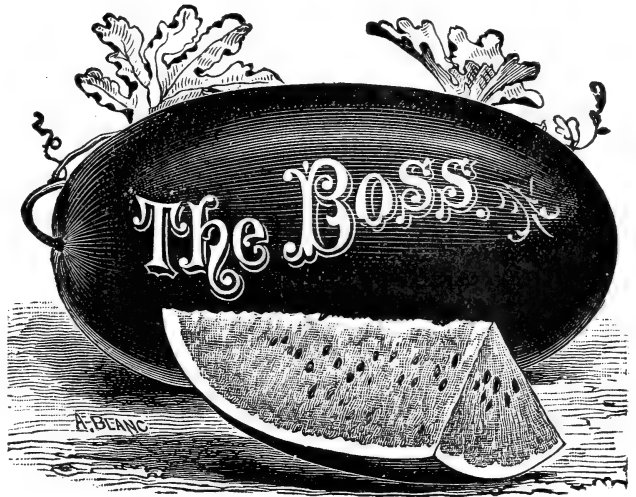
- EMERALD GEM.** Extra early small, skin dark green; flesh, orange, very sweet. . . . . 05 20 60 2 00
- EXTRA EARLY HACKENSACK.** A careful selection from the Hackensack, and with fruit much like the parent in shape and quality of the flesh, but ready for market ten days earlier. . . . . 05 15 30 1 25
- HACKENSACK.** One of the best large size, attractive appearance; productive and excellent flavor. . . . . 05 15 30 1 25
- IMPROVED GREEN NUTMEG.** A large Melon, nearly round, deeply ribbed, flesh, thick, light green, delicious flavor 05 10 25 80
- JENNY LIND.** The earliest variety; netted, of small round size, excellent flavor. . . . . 05 10 30 1 00
- OSAGE OR IMPROVED MILLER'S CREAM.** Medium, dark green. Flesh, salmon; very thick and splendid flavor 05 15 45 1 50
- PAUL ROSE.** Cross between Netted Gem and Miller's Cream, and combines the good qualities of both. The fruit grows very uniform. It is a heavy cropper, the vines are healthy and robust. The flesh is salmon colored, deep and of fine melting character, with thin tough rind and small seed cavity. The flavor is excellent, sweet and rich. . . . . 5 cts. pkt; 15 cts. oz; 45 cts. ¼lb; \$1.50lbs
- ROCKY FORD.** A variety extensively grown in Colorado and shipped to eastern points. The reason for the popularity of these melons is two-fold. First, its **superb table qualities**, being **firm, sweet and remarkably solid**. Second, its **wonderful shipping quality** which enables it to be carried **great distances**, and yet arrive in **first-class condition for market**. The fruit is of **medium size; oval shaped, heavily netted and solid**. The flesh is green, thick and juicy. It is **early and wonderfully productive**. . . . . 5 cts. pkt; 10 cts. oz; 25 cts. ¼lb; 80 cts. lb.
- TIP TOP.** Fruit large size, nearly round, evenly ribbed and very productive, sweet, juicy, finest flavor and firm fleshed and eatable to the outside coating. The best general purpose melon . . . . . 5 cts. pkt; 20 cts. oz; 60 cts. ¼ lb.; \$2.00 lb.

# MELON—Water. (Wasser Melone, Ger.)

One Ounce for Thirty Hills, 4 to 5 pounds in Hills for an Acre.

**I**N order to raise Water Melons, a rich, sandy soil, or a sandy loam, is required. Prepare, plant, and manage it the same as Musk Melons, only have the hills a greater distance apart—say seven to eight feet away. If large melons are desired it is well to pinch off all but two or three from each vine.

	Pkt.	Oz.	¼lb.	Lb.
<b>BLACK DIAMOND.</b> Skin dark green, almost black. Flesh bright red. Shape rather oval; large, productive and fine quality	5	10	20	60
<b>BLACK SPANISH.</b> Fruit medium size, almost round; Skin, dark green; flesh red, sweet and delicious	05	10	20	60
<b>BLUE GEM, OR ICEBERG.</b> Grows large. Flesh a beautiful shade of pink, darker than Kolb's Gem, heart large and flesh extends close to the outer skin sweet and delicious	5	10	20	60
<b>BOSS.</b> Color dark green, flesh deep scarlet; rind very hard, but thin; quality of the best	05	10	20	60
<b>CUBAN QUEEN.</b> Flesh bright red, tender and melting, luscious, crisp, and very sugary	05	10	20	60
<b>DARK ICING OR ICE RIND.</b> A very solid sort with a thin rind, and possesses most delicious flavor	05	10	25	75



	Pkt.	Oz.	¼lb.	Lb.
<b>DIXIE.</b> A cross between the Kolb Gem and Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities, and fully equaling the latter in quality and fine flavor	05	10	20	\$0 60
<b>DUKE JONES.</b> The color of the skin is solid green, flesh bright red, sweet, juicy and melting. It grows to a large size. One of the best shipping sorts	05	10	20	60
<b>FLORIDA FAVORITE.</b> Oblong in shape, growing to large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet	05	10	25	70
<b>HALBERT HONEY.</b> A large and attractive Melon, oblong shape; rind dark green, flesh crimson; very sweet and tender	05	10	25	80
<b>HOOSIER KING.</b> A large variety, oblong shape, with skin striped light and dark green. Flesh brilliant red, solid, sweet and luscious; the rind is thin but tough, making it a good variety for shipping	05	10	20	60
<b>GRAY MONARCH.</b> Large size; the skin is a mottled gray; shape long; flesh bright crimson and of sweet, delicious flavor. It is also a fine shipper	05	10	25	70
<b>KENTUCKY WONDER.</b> Shape oblong, attaining a good size, skin dark green and beautifully marked. Flesh a beautiful rich scarlet color, crisp, rich, sugary, always firm and solid, never mealy or tough	05	10	25	70
<b>KLECKLEY'S SWEET.</b> Where sweetness combined with large size is desired this variety will surely please, it has that crisp, sugary flavor so much desired. It is the sweetest of all. Oval shape, skin dark green and somewhat mottled. The rind is thin, but sufficiently tough to stand carrying to nearby markets	05	10	30	1 00
<b>KOLB'S GEM.</b> One of the largest, and an excellent shipper. Of a delicious, sugary flavor, bright red flesh, firm and solid. Productive and a good keeper	05	10	20	60
<b>LONG WHITE ICING.</b> The skin a mottled gray color, shape long, flesh bright crimson, and of sweet delicious flavor. A fine shipper—carrying well long distances	05	10	25	70
<b>PEERLESS OR ICE CREAM.</b> Of medium size, skin light mottled green; flesh bright scarlet, solid, crisp, melting and exceedingly sweet	05	10	20	60
<b>PRIDE OF GEORGIA.</b> Dark green color, almost oval in shape. An excellent shipping variety, of large size. Flesh crisp and sweet	05	10	20	60
<b>RATTLESNAKE OR GYPSY.</b> Fruit large, oblong, striped; flesh red. An excellent variety for market	05	10	20	60
<b>SWEET HEART.</b> Fruit large, oval, mottled light and dark green, rind thin but firm, flesh bright red, firm, solid but very tender, melting and sweet	05	10	20	60
<b>TRIUMPH.</b> Large size and handsome appearance. The melons are short in form but thick through. Skin deep bluish green, with dark red flesh of fine quality	05	10	20	60
<b>WONDERFUL.</b> Handsome appearance and fine quality. The fruits are oblong in form, averaging twenty inches in length; the skin is beautifully marked with broad striping of light green on a dark ground. The flesh is of a pale pink color, very crisp and sweet. The fruits bear shipping well	05	10	20	60
<b>COLORADO PRESERVING CITRON.</b> This variety combines all the best characteristics of a preserving Melon, and often attains a weight of 20 lbs.; flesh white and very firm	05	10	25	70

## MARTYNIA. (Temfenhorn, Ger.)

The seed pods are used for pickling, when gathered young and tender. Sow in the open ground in May, in hills three feet apart each way, or in a hotbed, and afterwards transplant.

**MARTYNIA PROBOSCIDEA** ..... 5c pkt.; 25c. oz.

## MUSTARD. (Senf, Ger.)

One Ounce Will Sow About 80 Feet of Drill.

A pungent salad, used sometimes with cress. Sow thickly in rows and cut when about two inches high.

	Pkt.	Oz.	¼lb.	Lb.
<b>WHITE ENGLISH.</b> Best for salads	05	10	15	\$0 30
<b>CHINESE.</b> Large-leaved, leaves twice the size of the white; flavor sweet and pungent	05	10	25	70

The J. M. McCullough's Sons Co., Cincinnati, O.:

Gentlemen—Your Paris Golden Yellow Celery is beyond doubt the best strain of celery I have ever grown. Hardly ever find a plant that is not true to name.

Station A. Cincinnati, O.

Cincinnati, O.,

Very truly yours,

WILLIAM WEDIG.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-Pounds, Pounds, Pints, Quarts, and larger quantities, if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

# Okra or Gumbo. (Ocker Ger.)

It is of the easiest culture, and grows freely, bearing abundantly in any garden. Sown at the usual time of all tender vegetables, in drills two inches deep, setting the plants from two to three feet apart.

	Pkt.	Oz.	¼lb.	Lb.
<b>IMPROVED DWARF GREEN.</b> Height fourteen inches, long, slender pods, very early and productive . . . . .	05	10	25	50
<b>LONG GREEN.</b> Taller than the preceding, bearing long, ridged pods. Highly esteemed in the South . . . . .	05	10	25	50
<b>PERKINS' MAMMOTH LONG POD.</b> Plant dwarf, producing long, slender deep green pods . . . . .	05	10	25	50
<b>WHITE VELVET.</b> Pods are round and smooth, larger than those of any other Okra, and never prickly . . . . .	05	10	25	60



Okra or Gumbo

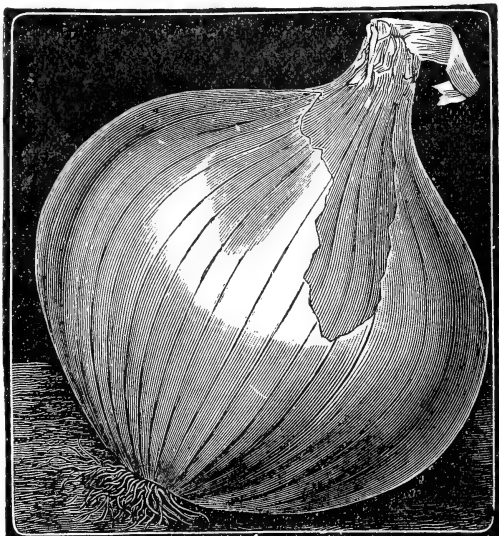
# Onion Seed. (Swiebel Ger.)

One Ounce for 100 Feet of Drill. Six Pounds for One Acre.  
Onion Seed for Sets, 30 to 40 Pounds Per Acre.

**CULTURE**—For sets, drill the seed thickly as early as possible in the spring. As soon as the tops dry off in the summer, remove to a dry airy place. May also be grown to full size the first season by sowing thinly in drills one foot apart and one-quarter inch deep, in March or early April, thinning to three or four inches apart.

By sowing in frames in February or March and transplanting in April, onions of immense size can be obtained. For this purpose the Southport Globe varieties (white and yellow) and Prize Taker are usually preferred. Onions delight in a strong, rich, deep loamy soil, and succeed well if grown successive years on the same ground.

	Pkt.	Oz.	¼lb.	Lb.
<b>YELLOW GLOBE DANVERS.</b> This is the standard variety everywhere; its earliness, uniform shape, small neck, bright yellow color and fine quality commend it to all. It is an excellent keeper and one of the most desirable sorts . . . . .	05	15	50	\$1 50
<b>YELLOW DANVERS.</b> Bulb of good size and flat, the standard yellow onion for market or home use, being both early and an enormous yielder as well as good keeper . . . . .	05	15	40	1 25
<b>YELLOW DUTCH OR STRASBURG.</b> The leading market variety, a good keeper and well flavored, bright straw colored skin and somewhat flattened shape; extensively grown for sets . . . . .	05	15	40	1 25
<b>SOUTHPORT YELLOW GOLBE.</b> A very large, handsome, globular-shaped, yellow variety, very productive, of mild flavor, excellent keeper . . . . .	05	20	50	1 75
<b>PRIZE TAKER.</b> A large, beautiful Onion that is seen every fall offered for sale at the fruit stores in Cincinnati and other large cities. They are a rich straw color of enormous size averaging 12 to 14 inches in circumference. It is very hard and an excellent keeper . . . . .	05	20	50	1 50



	Pkt.	Oz.	¼lb.	Lb.
<b>AUSTRALIAN BROWN.</b> The bulbs grow to a good marketable size, and are very hard and solid. They ripen earlier than either Yellow Danvers or Red Wethersfield, are beautiful brown color and mild flavor . . . . .	05	15	50	\$1 50
<b>LARGE RED WETHERSFIELD.</b> The most popular red variety for main crop. It makes a large, thick bulb, crops abundantly, ripens early and sells readily on all markets where a red onion is wanted . . . . .	05	20	60	2 00
<b>LARGE RED GLOBE.</b> A handsome and desirable variety, and is deserving of general cultivation. It matures early, grows to a large size; skin deep red; flesh fine grained; mild and tender . . . . .	05	20	60	2 00
<b>WHITE PORTUGAL, OR SILVER SKIN.</b> A large, flat onion, of mild flavor; fine for early winter use, and much esteemed for pickling . . . . .	05	20	60	2 00
<b>LARGE WHITE GLOBE.</b> This is one of the finest onions, both in appearance and quality. It is large, globe-shaped, firm, fine grained and of excellent flavor, and commands a higher price in the market than any other white onion grown . . . . .	05	20	75	2 75
<b>MAMMOTH SILVER KING.</b> Single onions of this variety, grown from seed the first season, have weighed as much as three pounds. It matures early, is a white-skinned and white-fleshed variety, flat shaped, and of a mild and delicate flavor . . . . .	05	20	60	2 00
<b>WHITE BARLETTA.</b> A very early small, pure white variety, having a very delicate silver skin, flesh firm and mild in flavor. Its great merit over all others is its extreme earliness. For pickling purposes it is unequalled . . . . .	05	20	60	2 00
<b>THE QUEEN.</b> A handsome, silver-skinned variety; esteemed for its rapid growth, mild flavor and fine keeping qualities . . . . .	05	20	60	2 00

## ONION SETS



These are valuable for early use, and where onions from seed cannot be raised the first year. To raise onion sets from seed, use good ground prepared as for large onions and sow the seed very thick in broad drills, thirty to forty pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets, but will not be of the right shape, and if sown thick on poor land, they will be necky or bottle-shaped. When onion seed is sown for sets the seed may be planted somewhat later than for large bulbs, but fine crops are more likely to come from early sowing.

Onion Sets should be planted out as early in spring as the ground is dry enough to work; plant them in rows one foot apart, with sets three or four inches apart. When raised from sets the onions can be used in the green state in June, or they will be ripened off by July.

Our Onion Sets have been kept in good condition, and are re-cleaned.  
White Sets. Yellow Sets. Potatoe Set and Large Potato Onions.  
Thirty cents per quart by mail postpaid. Price per peck and bushel on application.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-Pounds, Pounds, Pints, Quarts and larger quantities if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per Pound and sixteen cents per Quart.

## PARSLEY. (Petersilie Ger.)

One Ounce to 150 Feet of Drill.

Sow thickly early in April, in rows one foot apart and one-half inch deep; thin out the plants to stand six inches apart in the rows. The seed is of slow germination, taking from three to four weeks to make its appearance, and often failing to come up in dry weather. To assist its coming up quicker, soak the seed a few hours in warm water or sprout in damp earth, and sow when it swells or bursts. For winter use protect in frame or light cellar.

**EXTRA DOUBLE CURLED.** Beautifully crimped and curled. . . . . 5c pkt.; 10c oz.; 20c ¼lb.; 50c lb.  
**MOSS CURLED.** Fine for garnishing. . . . . 5c pkt.; 10c oz.; 20c ¼lb.; 50c lb.  
**NORWOOD.** Fine curled leaves of rich dark green, compact growth, finest quality. . . . . 5c pkt.; 15c oz.; 40c ¼lb.; \$1.00lb  
**HAMBURG TURNIP-ROOTED.** The fleshy root resembles a Parsnip and is used for flavoring soups, stews, etc., . . . . . 5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.



## PARSNIP. (Pastinake Ger.)

One Ounce to 200 Feet of Drill. 5 to 6 Pounds for an Acre.

Sow seed early in spring, in deep, rich soil in drills. Scatter the seeds thinly and cover evenly with the rake. After the appearance of the plant the soil must be stirred frequently until the leaves cover the ground. The seed is slow to germinate, and is frequently a long time in coming up; will vegetate sooner by steeping six to twelve hours in a liquid manure, diluted with water, and mixed with sand before sowing. When well up thin out to five or six inches apart in the rows. Unlike Carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

**LONG SMOOTH HOLLOW CROWN.** The finest stock of parsnip that can be procured. The roots are of uniform size and smooth. . . . . Pkt. Oz. ¼lb- Lb.  
 . . . . . 5c 10c 20c 45c  
**STUDENT.** A good half-long variety, smooth, sweet and of delicate flavor. . . . . 5c 10c 20c 45c

## PEAS. (Erbsen Ger.)

One Quart to 100 Feet of Drill. 1½ Bushels per Acre.

**CULTURE**—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth round sorts as early in spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. From the first sowing, sow every two weeks until June for a succession. After that there is danger of mildew. Discontinue then until August, when a planting of extra early or early sorts will often produce a good crop. Sow the seed in single drills, three feet apart for dwarf sorts, and four for tall sorts, or in double drills six or eight inches apart, one inch apart in the drill, and not less than four inches deep, since deep planting prevents mildew and prolongs the season. Cultivate well, and draw the earth twice to the vines during growth. Stake the tall varieties when they begin to vine. Pick the pods as soon as fit, and allow none to ripen on the vines, as they will then cease bearing.

Wrinkled Varieties are marked thus:\*

### EXTRA EARLY VARIETIES

**MAUD S.** The earliest and most prolific Pea known. The pod is of a dark green color, of a full round shape, and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals, and is the market gardener's favorite for all seasons. The far northern point at which our peas are grown renders them almost proof against cold, and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea **unequaled in earliness, yield and regularity of growth.** Make first planting as early in the spring as the ground will permit and cover well.

5c pkt.; 15c pt.; 30c qt.; \$2.00 pk.

\***ECLIPSE.** Vine two feet, vigorous; green wrinkled, of most delicious flavor. Owing to earliness, productiveness, quality, height of vine, this is desirable for the market gardener.

Failure

\***GRADUS.** The finest extra early Pea; It is in condition to pick about four days after our Maud S. Will yield an abundant supply of the most delicious, large wrinkled peas much EARLIER than other wrinkled varieties. The vine has heavy stems, with large dark-green leaves. It produces uniformly large pods, measuring four to four and one-half inches long, nearly round, and well-filled with large, handsome peas; two and one-half feet.

5c pkt.; 20c pt.; 40c qt.; \$3.00 pk

\***THOMAS LAXTON.** A cross between Gradus and one of the extra early sorts. It ripens within a day or two of the earliest round varieties, and is extremely productive. The pods are very large and contain 7 or 8 large-sized wrinkled peas of the finest flavor. It is darker colored than the Gradus and harder in constitution, height, three feet.

5c pkt.; 20c pt.; 40c qt.; \$3.00 pk

\***AMERICAN WONDER.** This variety stands unrivalled in point of flavor and quality. It is dwarf and robust in habit, growing from ten to fifteen inches in height, according to the soil.

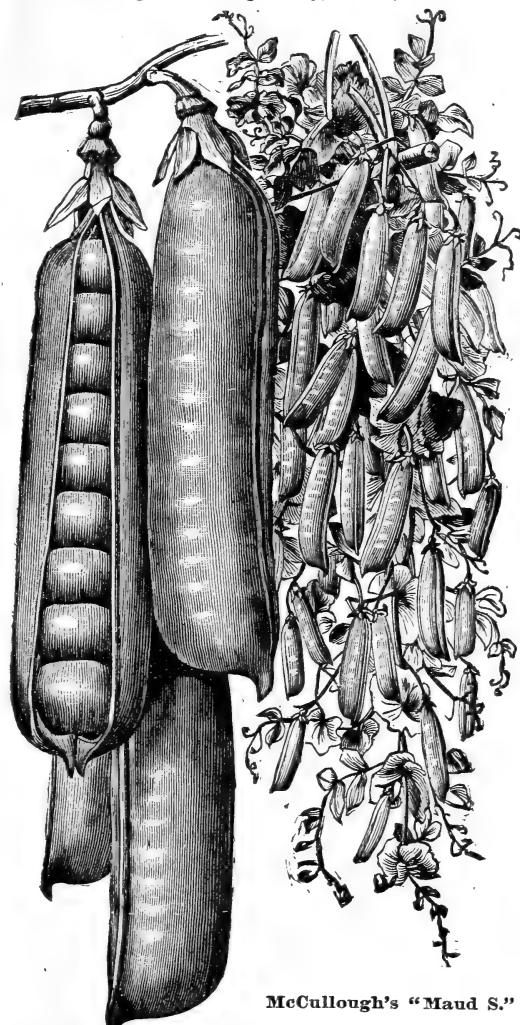
5c pkt.; 20c pt.; 40c qt.; \$2.50 pk

\***EXTRA EARLY PREMIUM GEM.** An improved Little Gem Dwarf, green wrinkled; very prolific, fine flavored, large pods, excellent either for market or home use; one and one-half feet.

5c pkt.; 20c pt.; 40c qt.; \$2.50 pk

Pkt. Pt. Qt. Pk.

\***NOTT'S EXCELSIOR.** A dwarf wrinkled pea of the highest excellence. The pods average three inches in length and are well filled with peas of large size and unusually sweet flavor; one and one-fourth feet . . . . . 05 20 40 \$8.00  
**PROLIFIC EARLY MARKET.** The longest podded, more peas in pod, and larger number of pods to the vine than any other extra early. It blooms two days later than Maud S., and in the development of pods suitable for picking about three or four days later; it will yield 30 to 50 per cent more than any other strain of Extra Earlys. A desirable Pea for the market gardeners, as their larger size, and the fine quality will make them a general favorite. . . . . Failure  
**ALASKA.** A wonderfully early, smooth, blue Pea; vines slender; pods very dark green, about three inches long, well filled with small, smooth, blue-green peas. The earliness, uniformity in ripening and deep color render it a desirable market and canning pea; height, two feet . . . . . 05 15 25 1 75  
**PHILADELPHIA EXTRA EARLY.** An excellent early variety. Height, two and one-half feet . . . . . 05 15 30 2.00



McCullough's "Maud S."



# PEAS—Continued.

Those Marked Thus\* are Wrinkled Varieties

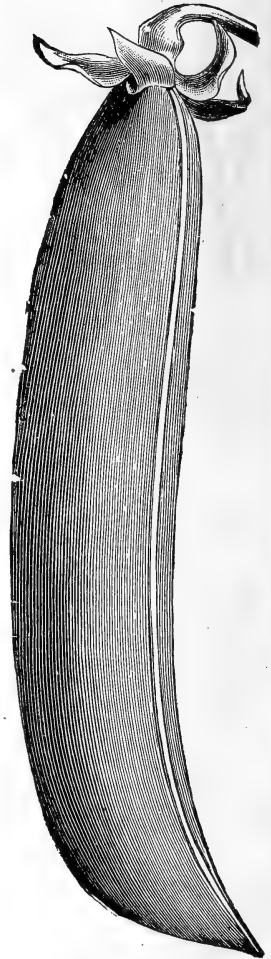
## SECOND EARLY VARIETIES.

	Pkt.	Pt.	Qt.	Pk.
* <b>McLEAN'S ADVANCER.</b> Prolific, long pods, tender, and of delicious flavor; two feet . . . . .	05	20	40	\$2 50
* <b>ABUNDANCE.</b> A popular variety bearing abundantly roundish pods three to three and one-half inches long, well filled with six to eight large wrinkled peas of excellent quality; three feet . . . . .	05	20	40	2 50

## LATE OR MAIN CROP VARIETIES.

* <b>DUKE OF ALBANY.</b> (American Champion.) A strong vigorous grower; pods extra large, dark green, closely filled with peas of excellent flavor. Three and one half feet . . . . .				Failure
* <b>EVERBEARING.</b> A prolific and continuous-bearing pea, giving it special value for both summer and autumn use; pods three to four inches long, containing six to eight large, wrinkled peas, of rich flavor, sweet and tender. Three feet . . . . .	05	20	40	2 50
* <b>IMPROVED CHAMPION OF ENGLAND.</b> One of the best known of the older varieties; a tall-growing, green wrinkled marrow; quality unsurpassed; pods medium; peas large. Five feet . . . . .	05	20	40	2 50
<b>LONG ISLAND MAMMOTH.</b> A strong grower, producing mammoth pods containing ten to twelve large peas. When cooked they are a deep, dark green color and fine flavor. Three and one-half feet . . . . .	05	15	30	2 00
<b>PRIDE OF THE MARKET.</b> A medium early dwarf pea of vigorous habit and very productive. The pods are large, of a medium green color and contain seven to nine peas of fine quality. Two feet . . . . .	05	15	30	2 00
* <b>TELEPHONE.</b> Immensely productive, of the finest quality, and excellent sugar flavor; vines very strong, averaging eighteen to twenty pods per stalk; the pods are of large size and closely packed with large delicious peas. Four feet . . . . .	05	20	40	2 75
<b>TELEGRAPH.</b> A second early variety, very robust in habit, bearing immense pods. The peas when cooked, are of a deep green color. A great bearer and of fine flavor. Three and one-half feet . . . . .	05	15	30	2 00
* <b>STRATAGEM.</b> A dwarf, wrinkled, blue marrow, heavy cropper, and produces large, remarkably well-filled pods of excellent flavor. Two feet . . . . .				Failure
<b>BLACK-EYED MARROWFAT.</b> This and the White Marrowfat are extensively grown as field peas, as they are hardy, productive, and bear well-filled pods. Four feet . . . . .	05	15	25	1 75
<b>LARGE WHITE MARROWFAT.</b> A favorite variety; large well-filled pods. Five feet . . . . .	05	15	25	1 75
<b>DWARF SUGAR.</b> Edible pods. Can be used in a green state like string beans. Height, five feet . . . . .	05	25	40	..
<b>MELTING SUGAR.</b> This variety grows to the height of five feet, bears a profusion of large, broad, handsome, light green pods which are generally found in pairs, and are so brittle that they snap without any strings. Sweet and tender; cooked like wax beans . . . . .	05	25	40	..
<b>CANADA FIELD.</b> There is no crop of greater value than Field Peas. Whether for fodder, in mixture with oats, sown at the rate of two bushels each per acre, or the peas sown alone at the rate of three bushels per acre for plowing under, there is no crop that we can so strongly recommend for more extended culture. Like all leguminous crops, peas have the power of extracting nitrogen from the air, and the soil from which a crop of peas has been harvested is richer in nitrogen than before the peas were sown upon it, and there is no kind of live stock on the farm to which peas and oats as a mixture can not be fed with positive advantage . . . . .		10	15	50

Write for Special Prices on Large Quantities.



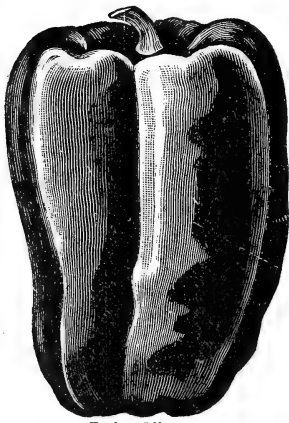
Duke of Albany.

# PEPPER (Pfeffer Ger.)

One Ounce of Seed for 1,500 Plants.

**CULTURE**—Sow early in the spring in hotbeds, if possible, and transplant to the open ground when the weather is favorable, or sow in drills in warm, mellow soil, late in the spring and then thin out so as to stand eighteen inches apart. For the convenience of those who only desire a few plants, and do not wish the trouble of starting them, we will have a supply of strong healthy plants ready by the middle of May.

<b>CELESTIAL.</b> Fruit conical in shape, one to two inches long; green from the blossom, turning alternately to lemon, golden and scarlet . . . . .	Pkt.	Oz.	1/1b
	05	25	75
<b>CHINESE GIANT.</b> Flesh is thick, mild and very sweet. Largest Pepper grown . . . . .	05	35	1 25
<b>GOLDEN DAWN.</b> Of same shape and size of Large Bell, but of more delicate flavor; color yellow . . . . .	05	25	75
<b>LARGE BELL OR BULL NOSE.</b> Large and early, rind very thick; color, glossy red; flavor mild and pleasant . . . . .	05	25	75
<b>LONG RED CAYENNE.</b> From three to four inches long, of bright-red color, very productive and hot . . . . .	05	25	75
<b>NEAPOLITAN.</b> The earliest large pepper; and most productive. The skin and flesh bright red, thick meated, sweet and mild . . . . .	05	30	1 00
<b>RUBY KING.</b> Large sized, ruby red pods, flesh exceedingly thick, sweet and mild . . . . .	05	25	75
<b>SPANISH MONSTROUS.</b> Early and productive; flesh very sweet and mild . . . . .	05	25	75
<b>SWEEP MOUNTAIN.</b> Similar in shape to the Bell, but grows larger; rind thick, tender and fleshy . . . . .	05	25	75



Ruby King

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-Pounds, Pounds, Pints, Quarts, and larger quantities, if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound and sixteen cents per quart.

# PUMPKIN. (Kuerbis, Ger.)

One Ounce for Fifteen Hills.

They are generally planted in cornfields, but they cannot grow as large or fine as if the vines were not shaded. A good plan would be to plant a few seeds in the potato patch, as they are less apt to injure the crop of potatoes than the corn. Avoid planting near other vines, as they will hybridize.

**CALHOUN.** The outside is a cream brown; the inside flesh is a deep salmon yellow; thick and fine-grained, and the seed cavity very small. It cooks very yellow, and makes pies of a high rich color, and of the finest quality. 5c pkt.; 10c oz.; 20c ¼lb.; 30c lb.

**CASHAW CROOK-NECK.** Grows to a medium size; flesh light yellow, and is the best variety for table use. 5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.

**GOLDEN CASHAW.** Crook-neck. Beautiful golden-orange color; an improvement on the old cashaw. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

**TENNESSEE SWEET POTATO.** Medium size, pear-shaped, a little ribbed, color creamy white, sometimes lightly striped with green. Flesh thick creamy white, fine grain. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

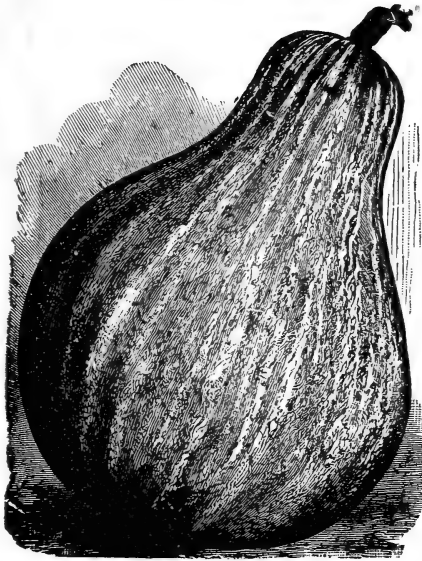
**JAPANESE PIE.** Is very productive, ripens early, of medium size, good keeper, and weigh 15 to 20 pounds each. The flesh is a rich salmon color, unusually fine grained. 5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.

**MAMMOTI TOURS.** A productive French variety, which grows to an immense size, specimens often weighing 200 pounds and over. Useful for stock feeding. 5c pkt.; 15c oz.; 50c ¼lb.; \$1.75 lb.

**LARGE CHEESE.** An excellent keeper, color bright orange, good for stewing or feeding stock. 5c pkt.; 10c oz.; 20c ¼lb.; 50c lb.

**KENTUCKY FIELD.** Good for cooking purposes, and for feeding stock. 5c oz.; 15c ¼lb.; 30c lb.

**CONNECTICUT FIELD.** A large, yellow variety. 5c oz.; 15c ¼lb.; 30c lb.



Tennessee Sweet Potato Pumpkin.

# RADISH. (Rettig, Ger.)

One Ounce to 100 Feet of Drill. 8 to 10 Pounds for an Acre.

**CULTURE**—Sow for very early use in hotbeds during the winter or early spring, or later on in sheltered borders, in well-manured, deeply dug and finely raked soil; if not well stimulated into a rapid growth they become fibrous and tough. Sow in drills ten inches apart, and thin to two inches in the rows. Sow at intervals of two or three weeks until September for succession. The winter varieties should be sown in July and August, and must be taken up before severe frost and stored away in a cool cellar in sand.

**McCULLOUGH'S CINCINNATI MARKET.** Largely grown by the Cincinnati market gardeners. The tops are so small that the radishes may stand touching each other in the rows. They grow perfectly straight and smooth and from six to seven inches in length. Their attractive, glossy, scarlet skin is very thin and the flesh crisp and brittle, and of delightful pungent flavor. It is the finest Long Red Radish for forcing and out-sells any other that is put in competition with it on the market. Being long standing, it is also an extra fine sort for the home garden, entirely exempt from any tendency to become pithy or hollow.

**CRIMSON GIANT FORCING.** This giant radish develops roots of 6 to 7 inches in circumference and over an ounce in weight more than double the size of other forcing varieties, without getting pithy and hollow, their pure white flesh remaining firm and crisp and of the mildest flavor. It is very early notwithstanding its size. It is equally well adapted to outside culture. The seed should be sown very thinly to permit full development of the roots. 5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.

**EARLIEST WHITE GLOBE FORCING.** Oval shape; small root, small top flesh white, tender and crisp. 5c pkt.; 10c oz.; 30c ¼lb.; \$1.00 lb.

**NON PLUS ULTRA.** The smallest topped and earliest forcing radish. Roots small, round; deep rich scarlet; very crisp, tender white flesh. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

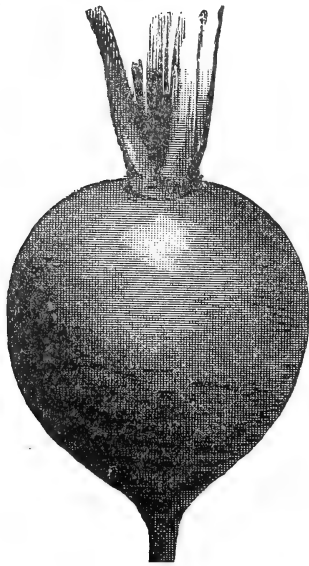
**ROSY GEM.** One of the earliest; perfectly globular; color, rich deep scarlet at the top, blending into pure white at the bottom. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

**EARLY SCARLET GLOBE.** One of the earliest and best sorts for forcing; flavor mild; crisp and juicy; also good for garden culture. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

**EARLY SCARLET TURNIP.** A small top variety, of quick growth, mild and crisp. It is a standard sort for early planting in the open ground. 5c pkt.; 10c oz.; 20c ¼lb.; 60c lb.

	Pkt.	Oz.	¼lb.	Lb.
<b>WHITE TIPPED SCARLET TURNIP.</b> Bright scarlet color, gradually fading off to pure white at the base, tender and mild in flavor, early	05	10	20	50
<b>EARLY WHITE TURNIP.</b> An early, crisp, Turnip-shaped radish of a pure white color	05	10	20	50
<b>FRENCH BREAKFAST.</b> A variety of quick growth, mild and tender, and one of the best for forcing. Oval form, scarlet, tipped with white	05	10	20	50
<b>WHITE ICICLE.</b> The finest early long white Radish; the young radishes are ready for use in twenty-five days, and continue to grow for a long time, fully retaining their crisp tenderness and mild flavor until quite large	05	10	25	75
<b>LONG SCARLET, SHORT TOP.</b> Long, of a deep scarlet color; flesh, white, crisp and of good flavor	05	10	20	50
<b>GOLDEN DRESDEN.</b> Valuable and quick-growing, the tops are scant, and admit of closest planting; perfectly round, smooth, and light golden-brown skin. The flesh is crisp, white, juicy and of the finest flavor	05	10	25	75
<b>GOLDEN GLOBE.</b> Perfect globe shape, and golden-colored skin, quick growth, tender and brittle	05	10	20	50
<b>GOLDEN YELLOW OLIVE-SHAPED.</b> Rapid grower; flesh white, tender, crisp and brittle; skin is a bright, fresh yellow, and has a very small top, well adapted as an early forcing or summer radish	05	10	25	75
<b>SCARLET OLIVE-SHAPED.</b> Very handsome, quick-growing variety, of excellent quality	05	10	20	50
<b>WHITE OLIVE-SHAPED.</b> A handsome variety, regular olive-shaped, and a fresh pure white; crisp and tender	05	10	20	50
<b>WOOD'S EARLY FRAME.</b> Long scarlet radish. An excellent variety for forcing	05	10	20	50
<b>McCULLOUGH'S NORWOOD LONG WHITE.</b> Fine Long White Radish, with beautiful shape; skin and flesh pure white; crisp, rapid grower	05	10	20	50
<b>LADY FINGER OR VIENNA.</b> Skin and flesh pure snow-white; crisp and of rapid growth	05	10	20	50





Large Rose, White Tipped.

**RADISH—Continued.**

Pkt. Oz. ¼lb. Lb.

<b>DELICIOUS WHITE.</b> Half-long in form, tapering at the lower end; handsome appearance and particularly crisp, mild flavor. It is perfectly solid and crisp to the center. The best half-long white summer variety.	05	10	25	75
<b>GIANT WHITE STUITGARI.</b> Quick-growing and therefore early; of the largest size, and both flesh and skin are pure white; quality fine; firm and brittle, never gets pithy	05	10	20	50
<b>LARGE ROSE, WHITE TIPPED.</b> An extra large Turnip-shaped Radish. This variety develops roots 6 to 7 inches in circumference and over an ounce in weight, but notwithstanding its immense size, does not get hollow or pithy. The flesh is purest white, firm and crisp in texture and of mild flavor. An excellent summer Radish	05	10	25	75
<b>WHITE STRASBURG.</b> Oblong, tapering shape; skin and flesh pure white, firm and brittle; fine for summer and winter use; valuable for market gardeners; very large	05	10	20	50
<b>CHARTIER.</b> Half-long, of quick growth; color, deep pink above, and gradually blending into a pure waxy white to its root; quality is unsurpassed, being tender and crisp	05	10	20	50
<b>WHITE SUMMER TURNIP.</b> Large, turnip-shaped; white, crisp and tender	05	10	20	50
<b>RADISH MIXTURE.</b> Especially adapted to the wants of those having only a small garden; contains all of the leading varieties, and will give a succession of fine radishes	05	10	20	50

**WINTER RADISHES.**

<b>BLACK SPANISH, OVAL SHAPE.</b> A black valuable winter sort	05	10	20	50
<b>BLACK SPANISH, LONG.</b> Differs from the above only in shape	05	10	20	50
<b>CELESTIAL.</b> An all-season white radish. Seed should not be sown until June or July, and is ready for use when three inches long, and continues until ten inches long by four inches in diameter. It also makes one of the best winter radishes from seed sown in August. Flesh firm, solid, crisp, pure white	05	10	25	75
<b>CHINESE SCARLET.</b> Half-long, fine winter sort, keeps well	05	10	20	50
<b>JAPANESE SCARLET.</b> One of the best winter varieties, bright rose colored flesh pure white, very crisp and brittle, never woody. The radishes are of mammoth size	05	10	25	70
<b>MAMMOTH WHITE WINTER.</b> A giant white-fleshed fall radish of excellent quality	05	10	20	50

**RHUBARB.** Rhubarber, Ger.)

One Ounce Will Produce 1,000 Plants. For Rhubarb Roots, see page 31.

**CULTURE**—Sow in April in drills eighteen inches apart, and cover the seed with fine soil, pressing it down firmly. When the plants are strong enough, thin out to six inches. In the fall or following spring transplant the roots into deep, rich soil, three feet apart each way.

<b>LINNAEUS.</b> Best sort for general purposes; early, large and tender	05	15	50
<b>VICTORIA.</b> Very large; later than Linnaeus	05	15	50

**SALSIFY.** (Hafer—Wurzel, Ger.)

One Ounce Will Sow 50 Feet of Drill.

Commonly called vegetable oyster. The cultivation is precisely the same as directed for parsnips; and it will keep over winter in the ground where grown, in the same way as parsnips.

<b>LONG WHITE FRENCH.</b> Roots of medium size, white and smooth	05	10	25	\$0.90
<b>MAMMOTH SANDWICH ISLAND.</b> This variety will average nearly double the size of the White French, and is of excellent quality. The best variety for market gardeners' use	05	15	40	1 25

**SPINACH.** (Spinat, Ger.)

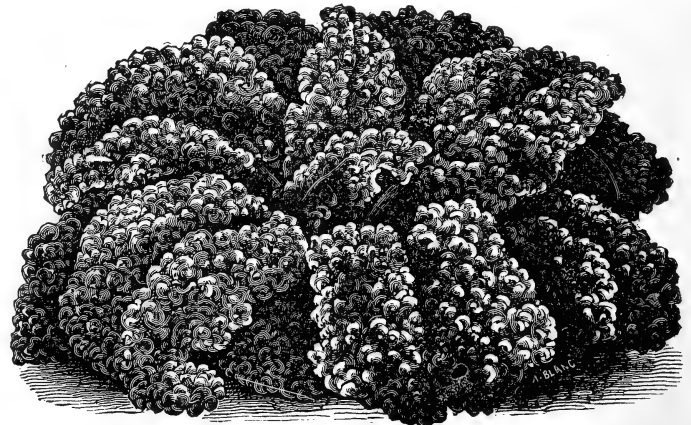
One Ounce for 100 Feet of Drill. 10 to 12 Pounds for an Acre. Special prices given on Spinach in Quantities.

**CULTURE**—For spring and summer use, sow either broadcast or in drills as early as the ground can be worked. The fall sowing is the main one with our market gardeners, which is done from August to October, and by careful attention they have it in marketable condition throughout the entire winter and spring. If the land is dry the seed should always be rolled or trampled in, for if the soil is loose the hot air shrivels the seed, so that it will not germinate.

**NORWOOD SAVOY.** One of the best for either the market or kitchen garden. A quick-growing, round-seeded variety, producing thick, dark green, slightly crimped leaves; in large demand for either spring or fall sowing.

5c pkt.; 10c oz.; 15c ¼lb.; 40c lb.  
**BLOOMSDALE SAVOY.** The hardiest large Savoy leaved; curled and crimped with thick, fleshy leaves, good for family and market purposes.

5c pkt.; 10c oz.; 15c ¼lb.; 30c lb.



Norwood Savoy Spinach. Pkt. Oz. ¼lb. Lb.

<b>LONGEST SEASON.</b> A distinct hardy variety, with large, thick, fleshy, dark green leaves, which are produced in great abundance in any season. It is slower in running to seed than any other variety now in use	05	10	15	\$0 50
<b>VICTORIA.</b> A variety with heavy, broad, dark green leaves. Two or three weeks later than other sorts in going to seed. Valuable for spring sowing	05	10	15	30
<b>PRICKLY SEEDED OR FALL.</b> The hardiest variety, having smaller leaves; is not so productive as the above	05	10	15	30
<b>NEW ZEALAND.</b> Yields an abundance of the tenderest Spinach during the hottest months of the year, or in dry arid localities where the ordinary Spinach runs to seed. The seed is sown where the plants are to stand, in May, or earlier in a hotbed and transplanted, and the plants will continue to yield a supply of good leaves of excellent quality during the entire summer, requiring scarcely any attention	05	10	30	1 00

Our Radish Seed is all raised from transplanted roots. These were selected on the following points: Earliness, uniformity of shape, size and color, with the thinnest kind of tap root. The quality is the best obtainable.



# SQUASH. (Kurbiss, Ger.)



Mammoth White Bush Squash.

One Ounce of the Bush Varieties for 40 Hills, or of the Large-Seeded Kinds, 15 Hills. Two or Three Pounds of the Bush, and 3 to 4 Pounds of the Large-Seeded for an Acre.

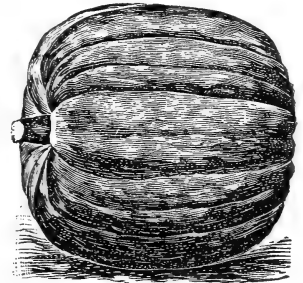
**CULTURE**—It is useless to sow until the weather has become settled and warm. Light soils are best suited for its growth. Prepare hills for the seeds by incorporating two or three shovelfuls of well-rotted manure with the soil for each hill. For the bush varieties, from three to four feet each way, and for the running sorts from six to eight feet. Eight or ten seeds should be sown in each hill, thinning out after they have attained their rough leaves, leaving three or four of the strongest plants, after which cultivate same as cucumbers.

## SUMMER VARIETIES.

- MAMMOTH WHITE BUSH.** The best early variety for market or shipping. It grows to a large size; scalloped like a patty-pan.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- EARLY YELLOW BUSH.** An early, flat, scallop-shaped variety; color yellow; flesh pale yellow, and well flavored.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- STRAIGHT-NECK SUMMER.** Similar in appearance to the Summer Crook-Neck, but with straight neck.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- SUMMER CROOK-NECK.** The old standard sort; very early and productive. Fruits about one foot long, with crooked neck and covered with warty excrescences; color bright yellow; shell very hard when ripe.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- VEGETABLE MARROW.** Skin a greenish-yellow, flesh white; grows nine to eighteen inches long.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.

## FALL OR WINTER VARIETIES.

- BOSTON MARROW.** A well-known and highly popular winter variety; quality unexcelled.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- DELICIOUS.** Resembles the old Hubbard, having a dark olive-green hard shell, weighing from 5 to 10 pounds. For table use it cannot be excelled, the flesh being remarkably thick, fine grained, sweet and of rich flavor.  
5c pkt.; 15c oz.; 50c ¼lb.; \$1.50 lb.
- ESSEX HYBRID.** Very prolific. fine-grained, orange-red flesh, very sweet and dry.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- FORDHOOK.** A winter squash of great merit. Of a handsome bright yellow color outside, and straw-yellow within. The flesh is dry and sweet.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- HUBBARD.** Standard winter squash; grown more extensively than any other late variety; color, dark green; shell extremely hard; flesh dry, fine grained and sweet; excellent keeper.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- WARTED HUBBARD.** This strain, without doubt, grows the finest Hubbard in existence. The wartiness indicates a very hard shell which is one of the features in a long-keeping squash; it also denotes extra choice quality—the harder and more warty the shell, of a Hubbard squash is the more delicate and sweet the flesh will be found to be. A Hubbard squash, large, blackish-green hard as wood, with warty knobs all over it, satisfies even the inexperienced observer that it is the best of its class, rich in quality, a keeper, and thick-fleshed, and will sell at sight.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- MARBLEHEAD.** Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor.  
5c pkt.; 10c oz.; 25c ¼lb.; 75c lb.
- MAMMOTH CHILI.** Rich orange-yellow; flesh thick and of good quality for making pies; grows to an enormous size; a valuable sort for feeding stock.  
5c pkt.; 15c oz.; 45c ¼lb. \$1.25 lb.



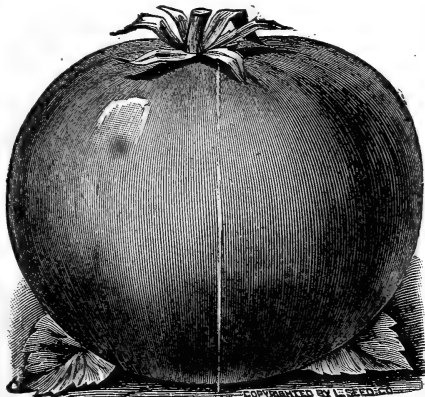
Mammoth Chili Squash.

# TOMATO. (Liebesapfel, Ger.)

One Ounce of Seed Will Produce about 2,000 Plants; ¼ Pound to the Acre.

**CULTURE**—Sow in a hotbed, green-house or window in a sitting room, where night temperature is not less than sixty degrees, about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out in boxes three inches deep, four or five inches apart, in same temperature, or removed into small pots, allowing a single plant to a pot. They are sometimes transplanted a second time into larger pots, by which process the plants are rendered more sturdy and branching. About the middle of May, the plants may be set in the open ground. They are planted for early crops on light, sandy soil, at a distance of three feet apart, in hills in which a good shovelful of rotted manure has been mixed. On heavy soils, which are not suited for an early crop, they should be planted four feet apart. Water freely at the time of transplanting and shelter from the sun a few days until the plants are established. For late use, sow in a sheltered border in May, and set out the plants in July; the green fruit can be picked off before frost, and ripened under glass. By training the tomato vines on trellises or tying to stakes, they will increase in productiveness, the fruit will ripen better, and be of finer quality.

- ACME.** Very early and productive; fruit medium sized, and of a dark, rich red, slightly tinged with purple; very solid and smooth.  
5c pkt.; 20c oz.; 50c ¼lb.
- EARLIANA.** The earliest smooth tomato, of good size and flavor. The plants are hardy, with rather slender open branches and moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Tomatoes are deep scarlet, and grow closely together in clusters of five to eight, all of medium size, averaging 2½ inches in diameter; they are smooth and solid, quite thick through and free from rough ribs or cracks. The flesh is deep red, with solid center and small seed cells, slightly acid flavor.  
5c pkt.; 25c oz.; 75c ¼lb.
- BEAUTY.** Rich, glossy crimson, with a slight purple tinge. The fruit grows in clusters of four to five, is of large size, very smooth, and retains its character till late in the season.  
5c pkt.; 25c oz.; 60c ¼lb.
- BUCKEYE STATE.** The tomatoes are born in immense clusters of four to eight large fruits. In solidity and meateness it has no equal, while in luscious quality none surpass it. Color, rich glossy crimson, with a slight purple tinge.  
5c pkt.; 25c oz.; 75c ¼lb.
- CINCINNATI PURPLE.** A valuable variety, especially adapted for canning and shipping. It is very large, color, a dark purplish-red. Very productive and of rich flavor.  
5c pkt.; 25c oz.; 60c ¼lb.
- DWARF CHAMPION.** Of dwarf, stiff, distinct, upright growth, scarcely needing support; early and prolific; smooth, medium-sized fruits of pinkish purple color.  
5c pkt.; 30c oz.; 80c ¼lb.
- DWARF STONE.** The largest fruited of the Dwarf variety. Foliage heavy and a rich dark green. The fruits are produced in clusters of 3 to 5, averaging 4 inches in diameter and 2½ inches in depth, bright scarlet color, smooth and regular, firm and solid, with no hard core. The quality is of the finest.  
5c pkt.; 30c oz.; 80c ¼lb.

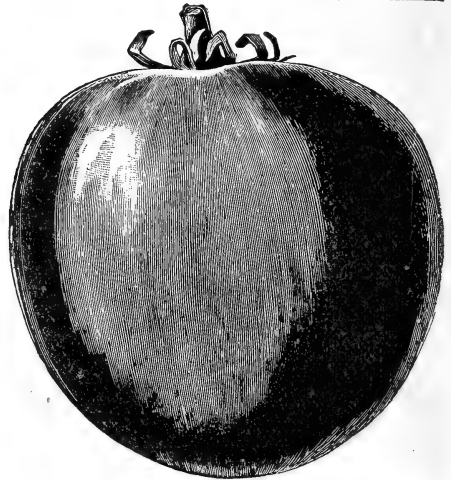


Earliana Sparks'.

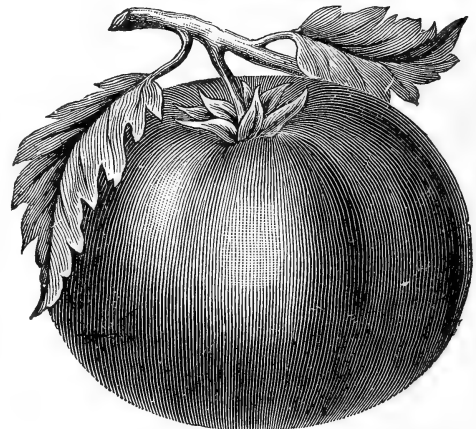
# TOMATO—Continued.

Pkt. Oz.  $\frac{1}{2}$ lb.

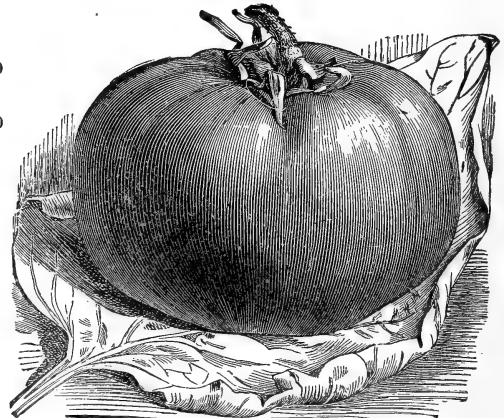
- LIVINGSTON'S CORELESS.** A perfect shaped canning variety, large size, globe shaped, full at stem end, bright red, a strong grower and a big cropper. In shape it is almost round. It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem. All of the fruits are of marketable size, and many of them are quite large. Always free from green core; ripens all over and right under the stem, all at once. A grand, good slicing variety; the seed cells being surrounded by bright red, heavy, meaty and delicious flesh. The strong outside and inner walls of flesh of the Coreless render it a very firm fruit and one of the best for long distance hauling or shipping. . . . 10 50
- ENORMOUS.** The largest smooth bright red tomato. The tomatoes are usually round in form, six to seven inches in diameter, thick through, and solidly meaty, with small seed-cells. The skin is smooth, highly colored and free from cracks, of strong growth and immensely productive . . . . . 05 30 80
- FAVORITE.** A large, handsome and uniform-shaped tomato; solid, smooth and bright scarlet; ripens evenly. . . . . 05 20 50
- GLOBE LIVINGSTON'S.** A beautiful globe-shaped variety. Large size, smooth, firm fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinged purple. Flavor delicate and agreeable; splendid slicing variety . . . . . 05 30 80
- GOLDEN QUEEN.** Large, smooth fruits, of a beautiful golden color; quality excellent; attractive for slicing and mixing with sliced red sorts . . . . . 05 25 60
- IMPERIAL.** The fruit is large, smooth and solid. It produces very early fruits, and continues until late in fall. It is a splendid keeper, color, dark red, with a purple tinge . . . . . 05 25 60
- MATCHLESS.** A standard main crop, bright red variety producing enormous crops of finest scarlet fruits. Very large, perfectly smooth, with few seeds. . . . . 05 25 60
- NORWOOD.** The first large tomato to ripen. The plants are strong and vigorous, bearing an abundance of large smooth fruit of a beautiful purplish crimson color. The flesh is remarkably thick, firm and solid, and of the finest quality, with few seeds. It is an excellent shipper. Does not crack or rot . . . . . 05 30 80
- PERFECTION.** Almost round fruits; smooth, tough skin of brilliant scarlet; ripens thoroughly; solid and of rich flavor . . . . . 05 20 50
- PONDEROSA.** One of the largest fruited tomatoes. The handsomest and finest quality; nearly seedless, with firm, meaty, rich red flesh; unequaled and delicious either sliced, cooked or canned; a healthy, luxuriant grower, and continuous yielder from early in the season until frost . . . . . 05 30 90
- STONE.** Large, almost round, scarlet fruits, solid and of fine quality; firm and meaty for slicing, and one of the best for cooking or canning; very prolific . . . . . 05 25 60
- TRUCKER'S FAVORITE.** One of the finest large-fruited purple sort. The plants are of strong growth and productive. The tomatoes are of large size, deep through, very smooth and regular, free from cracks, solid, meaty with small seed-cells and fine flavor. Though such a productive variety it ripens a large number of fruits early in the season. A good main crop variety either for home use or for market . . . . . 05 30 80
- STRAWBERRY, WINTER CHERRY OR HUSK.** Low, spreading plants, bearing yellow fruits  $\frac{1}{2}$ -inch in diameter, surrounded by a husk; for preserving . . . . . 05 25
- PEAR-SHAPED.** A small preserving tomato, of pear-shape and bright red color . . . . . 05 25
- RED CHERRY.** Small, round fruit, resembling cherries; used for preserves . . . . . 05 25
- YELLOW PLUM.** Bright lemon-colored; oval; small sized; used for preserves . . . . . 05 25



LIVINGSTON'S CORELESS.



NORWOOD.



STONE.

# TOBACCO.

**CULTURE**—The seed should be sown as early as possible after danger of frost is over. A good plan is to burn a quantity of brush and rubbish in spring, on the ground intended for the seed bed, and then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about six inches high, transplant into rows four or five feet apart and cultivate thoroughly with plow and hoe.

**CONNECTICUT SEED LEAF.** A long leaf, fine in texture. 5c pkt.; 30c oz.

**CONQUEROR.** A superb bright yellow, and a healthy, vigorous grower of the best form and finest texture. It ripens early, and is easily cured to the brightest color. 5c pkt.; 30c oz.

**HAVANA.** A medium leaf, fine texture. Commands a high price. 5c pkt.; 40c oz.

**WHITE BURLEY.** Extra stock, grown largely for the manufacture of fine-cut and plug. 5c pkt.; 25c oz.

**ZIMMER'S SPANISH.** One of the most popular and extensively grown cigar varieties. Very early; finest quality. 5c pkt.; 30c oz.

# TURNIP (Ruben Ger.)

One Ounce Will Sow 150 Feet of Drill. 1 to 1 1/2 lbs. to the Acre Drilled or Broadcast.

**T**HE soil for Turnips should be rich and mellow. For an early crop, sow early in the spring, in drills, about a foot apart, or broadcast and thin out. For a general crop, sow from the first of July to the last of August, in drills eighteen to twenty inches apart and thin out the plants to eight or ten inches. To destroy the fly, which is very destructive to the turnip crop, use "Hammond's Slug Shot." Sow an abundance of seed, and thin out. Should the crop be destroyed, harrow the ground immediately and sow again.



- PURPLE TOP MILAN.** The earliest of the flat turnips, white with purple top. Pkt. Oz. 1/4 lb. 1 lb. 05 10 25 75
- RED OR PURPLE TOP, STRAP-LEAF.** Most popular variety grown for table purposes. An early, flat, white turnip, with purple top; of excellent quality. The best for general use. . . . . 05 10 20 50
- EARLY WHITE FLAT DUTCH.** An early, white-fleshed variety; of quick growing mild flavor and excellent quality. . . . . 05 10 20 40
- SNOWBALL.** An early, medium-sized, smooth, round turnip; pure white skin and flesh; quality crisp, tender and sweet. . . . . 05 10 20 50
- WHITE EGG.** An egg-shaped variety, with smooth, thin white skin and snowy white flesh; firm, mild and sweet. . . . . 05 10 20 50
- LARGE WHITE GLOBE.** Flesh white, firm and crisp; a desirable early variety. . . . . 05 10 20 40
- PURPLE TOP WHITE GLOBE.** An early, large globe-shaped variety, white flesh, fine grained, tender and sweet; a fine table turnip and one of the best marketable sorts. . . . . 05 10 20 50
- LONG WHITE OR COW HORN.** Grows quickly, partly above ground; very productive; flesh white, fine grained and sweet, of excellent quality for family and market gardeners use. . . . . 05 10 20 50
- AMBER GLOBE.** A beautiful formed variety, quite productive, solid flesh and attractive color; it keeps well and is desirable for either table use for or stock feeding. . . . . 05 10 20 40
- GOLDEN BALL, OR ORANGE JELLY.** A rapid grower, of excellent flavor, globe-shaped, bright yellow color, good keeper and a superior table variety, or for stock. . . . . 05 10 20 40
- PURPLE TOP YELLOW ABERDEEN.** A large, globe-shaped Turnip, with yellow flesh of fine quality—a good keeper; popular for table or stock. . . . . 05 10 20 40
- SEVEN TOP.** Cultivated extensively in the South for the tops, which are used for greens. It is very hardy, and will grow all winter. Does not produce a good root. . . . . 05 10 20 40

## RUTA BAGA.

- BUDLONG'S IMPROVED.** White, very sweet, much milder flavor than any other sort; globe-shaped. . . . . 05 10 20 40
- AMERICAN PURPLE TOP.** Very hardy and productive; flesh yellow, solid, sweet; good for stock or table use. . . . . 05 10 20 40
- SKIRVING'S PURPLE TOP.** Large size and strong growth, a heavy cropper and one of the best for field culture. . . . . 05 10 20 40
- LONG ISLAND IMPROVED PURPLE TOP.** A uniform large rooted quick growing yellow fleshed sort. . . . . 05 10 20 40

## VEGETABLE PLANTS AND ROOTS.

We will keep the following varieties on hand in their proper season. Prices do not include prepayment by mail or express: If wanted by mail add for postage, 5c per doz., 25c per 100 on Cabbage, Cauliflower, Celery and Sweet Potato Plants. 10c per doz. on Egg-Plants, Pepper and Tomato Plants (except for pot grown plants.)

	Per 100	Per 500	Per 1,000		Per Doz.	Per 100
<b>ASPARAGUS ROOTS—Two-year-old roots</b>				<b>PEPPER PLANTS.</b>		
Argenteuil . . . . .	\$1 25	\$5 00	\$9 00	Large Bell, or Bull Nose . . . . .	\$0 30	\$1 50
Barr's Mammoth . . . . .	1 00	4 25	7 00	Ruby King . . . . .	30	1 50
Columbia Mammoth White . . . . .	1 00	4 25	7 00	<b>SWEET POTATO PLANTS.</b>		
Conover's Colossal . . . . .	80	3 75	6 00	Nansemond, or Jersey Yellow . . . . .		39
Palmetto . . . . .	1 00	4 25	7 00	Red Bermuda . . . . .		40
<b>EXTRA STRONG THREE YEAR OLD ASPARAGUS ROOTS. For Forcing</b>	2 00	8 00	15 00	Southern Queen . . . . .		35
<b>CABBAGE PLANTS.</b>				<b>TOMATO PLANTS.</b>		
Early Jersey Wakefield . . . . .	50	2 25	4 00	We make a specialty of pot grown plants. These being sturdier and better rooted than transplanted plants, and can supply well grown plants of following varieties:		
Louisville Drumhead . . . . .	50	2 25	4 00	<b>CINNINATI PURPLE, EARLIANA, AND PONDEROSA.</b>		
Premium Late Flat Dutch . . . . .	40	1 75	3 00	50c doz.; \$4.00 per 100 (Pot grown plants can not be sent by mail.)		
<b>CAULIFLOWER PLANTS.</b>				<b>TRANSPLANTED PLANTS.</b> Leading Sorts 25c doz.; \$1.75 per 100		
Earliest Dwarf Erfurt . . . . .	25	\$1 50		<b>RHUBARB ROOTS.</b>		
Early Snowball . . . . .	25	1 50		Single Eye (By mail 75c per doz.) . . . . .		5c 50c
<b>CELERY PLANTS.</b>				Small Clumps (By express or freight only.) . . . . .		10c 1.00
Leading Sorts . . . . .		50	3 50	Large Clumps (By express or freight only.) . . . . .		25c 2.50
<b>EGG PLANTS</b> . . . . .	40	3 00				
<b>CHIVES—Good clumps</b> . . . . .	10c each;	\$1.00 per doz.				

We are Growers of Vegetable Plants. Have them Fresh Every Day in Season. Special Prices on Large Quantities.

## HORSE RADISH SETS.

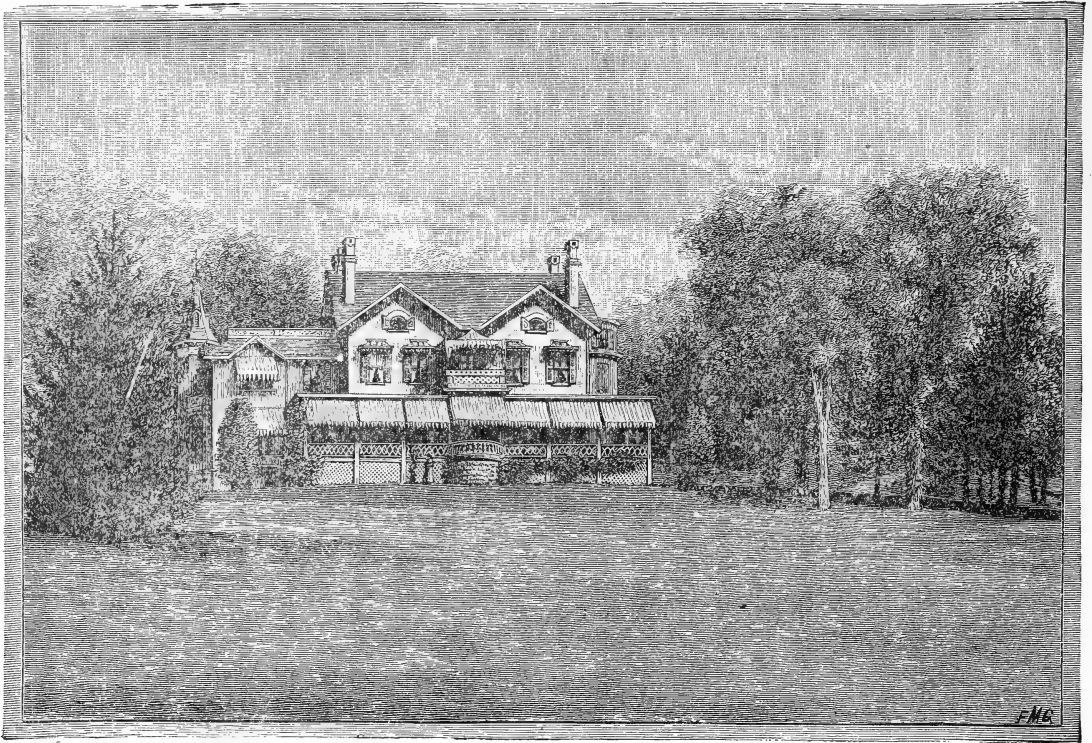
**CULTURE—**Plant the sets small end down, where the slanting cut is, so that the top will be two inches under the soil. Good soil and cultivation will produce a crop fit for use in one season's growth. Being hardy, may be left in the ground until spring. 25c per doz.; 90c per 100 postpaid. By express or freight 65c per 100.

**NEW HORSE RADISH. MALINER-KREN.** A very quick growing, large-rooted variety from Bohemia, which has been grown largely in this country for several years with satisfactory results. "MALINER-KREN" is grown by planting the small sets or pieces from the side roots in deep rich soil and cultivating in the same manner as with the ordinary variety of Horse-radish, but the plants are so much stronger in growth that the roots grow to considerably larger size and greater weight. The quick strong growth not only gives a much larger crop, but also enables the grower to place the roots in the markets much earlier than with the ordinary variety. When grown in light soils the roots are white and develop the fine flavor early in the fall. 30c per doz.; \$1.50 per 100 postpaid. By express or freight \$1.00 per 100

## HERB SEEDS.

**CULTURE—**Sow early in April or May, in a sheltered, well-prepared spot in the open ground, either broadcast or in shallow, drills about seven inches apart. Thin out the plants thus raised, and keep clear from weeds.

	Pkt. Oz.		Pkt. Oz.		Pkt. Oz.
Anise, biennial . . . . .	5c 10c	Fennel, Sweet, perennial, 6 ft. . . . .	5c 10c	Saffron, annual, 3 ft. . . . .	5c 10c
Balm, Sweet, perennial, 1 ft. . . . .	5c 30c	Horehound, perennial, 2 ft. . . . .	5c 25c	Sage, annual, 1 ft. 50c 1/4 lb. . . . .	5c 15c
Basil, Sweet, annual, 1 ft. . . . .	5c 20c	Hyssop, perennial, 3 ft. . . . .	5c 25c	Summer Savory, annual . . . . .	5c 20c
Caraway, perennial, 1 2 ft. . . . .	5c 10c	Lavender, perennial, 2 ft. . . . .	5c 20c	Sweet Marjoram . . . . .	5c 20c
Dill, biennial, 3 ft. . . . .	5c 10c	Rosemary, perennial, 4 ft. . . . .	5c 30c	Thyme, annual, 1 ft. . . . .	5c 30c



## McCullough's "Suburban" Lawn Grass Seed.

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

**How to Make a Lawn.**—A fine lawn is an unailing mark of intelligence and taste, to obtain which the main point is to start right. It is now a decided fact that seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken; ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "**Suburban**" Lawn Grass Seed at the rate of five bushels (80 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 or 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days. Each season the cultivated grasses, after going to seed, lie dormant; at this time wild grasses will appear to some extent, but only for a short time, as they will succumb to the vigorous second growth of the other.

**Renovating Lawns.—General Surface Renovating.**—When your lawn has already been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized EL PASO SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "**Suburban**" Lawn Grass Seed at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat with the back of a spade.

**Renovating in Spots or Patches.**—Everyone is aware that even in the best-kept lawns unsightly spots devoid of grass will appear, which are caused by root-destroying insects; and as these spots are not protected by a covering of turf during the winter, as a natural consequence the chemical elements in the soil are leached out by the action of the weather, causing these spots to "cake" or become hard early in the spring.

It is useless and a waste of seed to sow these spots unless they are carefully prepared to receive the seed. For this purpose it is our practice to cover these spots with either of the fertilizers mentioned above at the rate of 13 lbs. for each 300 square feet, then dig these spots up, and after raking until no trace of the fertilizers can be seen, sow our "**Suburban**" Lawn Grass Seed at the rate of 1 lb. to each 250 square feet. Roll thoroughly or pat with the back of a spade.

**How to Properly Weed a Lawn.**—Many persons suppose that whenever they pull a weed out of their lawn, that they have accomplished all that is necessary, and to a certain extent they have; but the fact must not be overlooked that it too frequently happens that the removal of a weed gives the sun an opportunity to warm into life the roots and seeds of other weeds that have been lying dormant, and as a result several more make their appearance in the same spot. Nature has provided for the constant occupation of the soil, and if the seeds of grasses are lacking, the seeds of weeds are not. Our practice for years has been to always have a supply of our "**Suburban**" Lawn Grass Seed at hand, and whenever any weeding is done on the lawn to immediately drop a few grains of seed wherever a weed is removed, and while the soil is disturbed to pat (or rather coax) the seed into the soil. In a season or two your efforts will be repaid by having a beautiful lawn, entirely free from weeds.

**Remember.**—Our "**Suburban**" Lawn Grass Seed may be sown any time during Spring, Summer, Fall or Winter with satisfactory results, if our simple cultural directions are observed.

**Suburban Lawn Grass Seed.**—Prices: ¼ lb. 15c; 1 lb. 25c; 5 lbs. \$1.00; 1 bu. of 16 lbs. \$3.00. By mail 10c per lb. extra.





VIEW OF AN OHIO ALFALFA CLOVER FIELD—The above view was taken from a field of Alfalfa on the banks of the Little Miami River., Clermont County, Ohio. This field has been standing six or seven years, and cut regularly from three to four times each season, with a wonderful yield. (For prices on Alfalfa, see page 36.)

## SPECIAL MIXTURE OF GRASSES

FOR

# Lawns, Terraces, Golf Links and Putting Greens

**MCCULLOUGH'S LAWN GRASS FOR SHADY PLACES.** On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass; for such places this mixture is adapted. It is composed of dwarf-growing grasses which are found naturally growing in such places. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, apply some lime or land plaster to sweeten it, but the moss should first be removed by the use of a sharp rake, then sow the seed at the rate of 4 bushels (64 lbs.) per acre.

1 lb., 40c; 5 lbs., \$1.50; 8 lbs., \$2.25; 1 bu. of 16 lbs., \$4.50. By mail 10c per lb. extra.

**MCCULLOUGH'S TERRACE MIXTURE.** There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before a washout.

Per lb., 35c; 5 lbs., \$1.50; 8 lbs., \$2.00; 1 bu. of 16 lbs., \$4.00. By mail 10c per lb. extra.

Quantity of Lawn Grass Seed usually required in making a new Lawn;  
 10x25 feet requires.....1 pound. | 40x50 feet requires.....8 pounds. | 50x100 feet requires.....16 pounds.  
 25x50 feet requires.....5 pounds. | 40x60 feet requires.....10 pounds. | Complete directions on opposite page.

**MCCULLOUGH'S GOLF LINK GRASS SEEDS.** We have given much attention to grasses for GOLF LINKS. The mixture we offer below are composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful watching for several years of the practical results obtained on the Golf Links.

We have always on hand all the natural grasses of Europe and America, and we are familiar with the habits and merits of each. We shall be glad to prescribe for whatever the requirements of the Links may be: for poor lands or rich, high and dry or low and wet.

**PUTTING GREEN MIXTURE.** A mixture of extra fine grasses that will make a close, firm, green and lasting turf, which will improve the more it is trampled upon.

Per lb. 30c; 5 lbs. \$1.40; 8 lbs. \$2.00; 1 bu. of 16 lbs. \$4.00. By mail 10c per lb. extra.

**GOLF LINK MIXTURE.** For the grounds in general.  
 Per lb., 20c; 5 lbs., 90c; 8 lbs., \$1.35; 1 bu. of 16 lbs. \$2.50. By mail 10c per lb. extra

## EL PASO SHEEP MANURE FOR LAWNS.

A pure, natural Manure, and a nutritious food for plants. Its effect are immediate, The best of all manures for mixing with the soil for green-house plants. It makes the richest, safest and quickest liquid manure. Nothing equals it for use on flower beds or for the vegetable garden. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth, and a rich green color. No raking off required. No seeds of foul weeds in it! No offensive odor! It is clean to handle! Absolutely safe to use in any quantity or in any manner.

**Directions.**—For lawns, use at the rate of at least 500 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble it readily makes a safe liquid manure—one pound to five gallons of water per day can be safely used.

Pulverized per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; per ton, \$30.00.  
 Not pulverized, 100 lbs., \$1.50; per ton \$25.00.

### QUANTITY OF EL PASO SHEEP MANURE REQUIRED FOR LAWNS.

Plot 15x20 feet requires .13 lbs. Plot 30x50 feet requires .50 lbs. Plot 40x75 feet requires .100 lbs. Plot 50x100 feet requires .150 lbs.

## PURE BONE MEAL FOR LAWNS.

This finely pulverized ground bone is excellent for rose culture and lawns. It decomposes very rapidly, and is more quickly effective than the coarser-grade. It is excellent for mixture with the soil for potting.

5 lbs., 25c; 10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 200 lb. bag, \$4.00; per ton \$35.00.

For lawns, use at the rate of at least 500 pounds per acre.

### QUANTITY OF PURE BONE MEAL REQUIRED FOR LAWNS.

Plot 15x20 feet requires .10 lbs. Plot 30x50 feet requires .25 lbs Plot 40x75 feet requires .50 lbs. Plot 50x100 feet requires .100 lbs



# GRASS SEEDS.

**Our Motto: Quality, Quantity, Prices.**



For many years GRASS SEEDS has been one of our specialties, and our improved and perfected facilities for handling same, either in small lots or in car lots at a minimum cost, enables us to offer our friends and customers the best possible service, both as to quality and promptness in executing orders.

While we expect to adhere closely to prices quoted in this list, still, owing to market fluctuations, it is impossible to guarantee prices, but all orders with remittance will be filled at lowest market prices on day of receipt.

We are the largest Buyers in this section and will always pay the highest market prices.

If you want quality to stand test, Order Our Buckeye, or Highest Grade.

## Mixed Grasses for Meadows and Pastures.

Our house has for over half a century made a "SPECIALTY of GRASSES," and is now generally regarded as one of the leading sources of supply. After years of actual practice and experimenting we have aided largely in establishing the fact that all well-informed persons now agree that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain grasses that are specially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our **Mixture for Permanent Pastures** grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our **Mixture for Permanent Meadow** will furnish excellent hay as well as late pasturage.

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

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

	Per bu.		Per bu.
Mixtures for meadows, first quality	\$2 50	In lots of 10 bushels or over	\$2 25
" " meadows, second quality	2 00	" " " "	1 90
" " permanent pasture, first quality	2 50	" " " "	2 25
" " permanent pasture, second quality	2 10	" " " "	2 00
" " pasture and hay in orchard and other shady places, first quality	2 50	" " " "	2 25
" " pasture and hay in orchard and other shady places, second quality	2 10	" " " "	2 00
" " marshy grounds, first quality	2 25	" " " "	2 00
" " marshy grounds, second quality	2 00	" " " "	1 90
" " sandy and rocky grounds, first quality	2 25	" " " "	2 00
" " sandy and rocky grounds, second quality	2 00	" " " "	1 75

## General List of Grass Seeds.

Our prices on light Grass Seeds include burlap bags and delivery to freight or express depots here, purchaser paying transportation charges. Seamless cotton bags holding two bushels, 20 cents each extra.

Where Shipment is Desired by Mail Always add 10 Cents Per Pound for Postage.

- AWNLESS BROME GRASS**—(Bromus Inermis.) A hardy perennial, standing extreme of heat, and cold drought. In the South it remains green all winter. It will grow well on all kinds of soil. The seed should be sown as early in the spring as the ground can be worked. (10 lbs. per bushel.) Sow 35 to 40 lbs to the acre. . . . . 20c lb.; \$1.50 for 10 lbs.; \$12.00 per 100 lbs.
- BERMUDA GRASS.** (Cynodon Dactylon.) A valuable grass for the south and for tropical climates. It will not endure frost. Sow 6 to 8 lbs. per acre . . . . . 60c per lb.
- CREEPING BENT.** (Agrostis Stolonifera.) Valuable in mixture with other grasses for lawns, etc.. Suitable also for moist localities. (12 lbs. per bushel.) Sow 30 lbs. per acre . . . . . 85c lb.; \$3.25 for 10 lbs.; \$28.00 per 100 lbs.
- CRESTED DOGSTAIL.** (Cynosurus Crystatus.) Perennial. Height, 1 to 1 1/2 feet. An excellent grass for hard, dry soils; valuable for pastures and lawns, as it is very hardy, tender, nutritious, and relished by all stock. (21 lbs. per bushel.) Sow, if alone, 35 lbs. per acre. . . . . 40c per lb.; \$3.50 for 10 lbs.
- ITALIAN RYE GRASS.** (Lolium Italicum.) Biennial. Height, 18 to 30 inches. As it is not perennial, it is not adapted for permanent pastures, but for one or two years hay it is unsurpassed. Sow, if alone, 55 lbs. per acre. (18 lbs. per bushel.) 15c lb.; \$1.00 for 10 lbs.; \$8.50 per 100 lbs.
- JOHNSON GRASS.** (Sorghum Halapense.) A perennial; rapid grower; long cane-like roots. Sow at the rate of one bushel per acre, and should be sown in August or September to secure a good crop the following year . . . . .
- KENTUCKY BLUE GRASS.** (Poa Pratensis.) Also called June Grass. Smooth-Stalked, Meadow Grass, Green Meadow Grass, and Spear Grass. Perennial. Height, 10 to 15 inches. This valuable grass is suited to a variety of soils, and as a pasture grass indispensable. It is very productive, unusually early, and makes a splendid lawn grass, forming a thick turf, and being of very even growth. Also makes hay of excellent quality, but the yield for this purpose is not equal to some other grasses. Sow, if alone, 30 lbs. per acre. (14 lbs. per bushel.) Fancy clean seed, 30c lb.; \$1.25 for 5 lb.; \$3.25 per bu. of 14 lb.

Add 10 cents per pound extra if sent by mail.

## GRASS SEEDS—Continued.

If you want quality to stand test. Order our Buckeye or Highest Grade.



Meadow Fescue Grass.

**MEADOW FESCUE.** (*Festuca Pratensis*.) (Erroneously called English Blue Grass.) Highly valuable for permanent grass land. Does not, however, attain its full productive power till the second or third year. Relished by live stock, both in hay and pasture, and is one of the most desirable permanent grasses for general culture. 40 lbs. to the acre. (24 lbs. per bushel.) 35c lb.; \$3.25 for 10 lbs.; \$30.00 per 100 lbs.

**HARD FESCUE.** (*Festuca Duriuscula*.) Perennial. Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone 30 lbs. per acre. Weight 12 lbs. per bushel. 25c lb.; \$2.00 for 10 lbs.

**SHEEP'S FESCUE.** (*Festuca Ovina*.) Perennial. Height varies from 6 to 20 inches. Grows naturally on light dry sandy soils. Sheep are very fond of it. Weight, about 14 lbs. per bushel. Sow 30 lbs per acre. 25c lb.; \$2.00 for 10 lbs.

**FINE-LEAVED SHEEP'S FESCUE.** (*Festuca Ovina Tenuifolia*.) Perennial. Height varies from 8 to 24 inches. Similar to the Sheep's Fescue mentioned above, except that the leaves are much finer. Sow, if alone, 40 lbs. per acre. Weight about 14 lbs. per bushel. 45c lb.; \$4.00 for 10 lbs.

**VARIOUS LEAVED FESCUE.** (*Festuca Heterophylla*.) A very early hardy perennial, 2 to 3 feet high, thriving best in cold moist soils. Yields heavily, and is valuable in grass mixtures for permanent meadows. It grows very well in the shade, and is highly recommended for shaded lawns and woodland parks. 40 lbs. to the acre. 40c lb.; \$3.50 for 10 lbs.

**ORCHARD GRASS.** (*Dactylis Glomerata* or *Rough Cocksfoot*.) Perennial. Height 3 feet. It blossoms about the same time as Red Clover, making it, on that account, a desirable mixture with that plant. It is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle commend it as one of the very best pasture grasses. Sow 35 lbs. to the acre. Weight, 14 lbs to the bushel. 20c lb.; \$1.75 for 10 lbs.; \$16.00 per 100 lbs. Lower qualities at their value.

**PERENNIAL OR ENGLISH RYE GRASS.** (*Lolium Perenne*, Imported English Blue Grass.) Height, 15 to 24 inches. Considered invaluable for permanent pastures. It produces an abundance of remarkably fine foliage, tillers out close to the ground, and soon forms a compact sward. After being cut it grows up in a very short time, and remains bright and green throughout the season, consequently is well adapted for lawn mixtures. Valuable for shady places. Also a good variety for hay, if cut when in blossom, as it is then most nutritious. Sow, if alone, 65 lbs. per acre. Weight 24 lbs per bushel. 15c lb.; \$1.00 for 10 lbs.; \$8.50 per 100 lbs.

**RED TOP GRASS.** (*Agrostis Vulgaris*, Herd's Grass, Quick Grass.) Perennial. Height, 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture grasses; succeeds almost everywhere, but reaches its highest state of perfection in a moist, rich soil, in which it attains a height of 2 to 2½ feet. Sow, if alone, 45 lbs. per acre. Weight, 14 lbs. per bushel.

**Choice Seed Chaff.** 15c lb.; \$1.25 for 10 lbs.; \$10.00 per 100 lbs.

**Fancy pure Seed.** Weight about 32 lbs. per bushel. Sow 10 to 12 lbs. per acre. 20c lb.; \$1.90 for 10 lbs.; \$18.00 per 100 lbs.

**RHODE ISLAND BENT.** (*Agrostis Canina*.) A fine grass, chiefly used for pastures and lawns, for which it is one of the best. 12 lbs. per bushel. Sow 40 lbs. per acre. 30c lb.; \$2.80 for 10 lbs.; \$23.00 per 100 lbs.

**SWEET VERNAL GRASS, TRUE PERENNIAL.** (*Anthoxanthum Odoratum*.) For a mixture with pasture grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dry, thus sweetening hay. Sow 3 to 5 lbs. per acre with other grasses. 85c lb.; \$8.00 for 10 lbs.

**SWEET VERNAL GRASS, ANNUAL.** (*Anthoxanthum Odoratum Puelii*.) Much smaller than the perennial. 20c lb.; \$1.65 for 10 lbs.

**TALL MEADOW OAT GRASS.** (*Avena Elatior*.) A perennial. Has broad, flat leaves, and grows about 3 feet high; has an abundance of long, fibrous roots, penetrating deeply in the soil, enabling it to withstand drought and cold. Sow 25 to 30 lbs. per acre. 25c lb.; \$2.00 for 10 lbs.

**WOOD MEADOW GRASS.** (*Poa Nemoralis*.) No grass is better adapted for pleasure grounds, particularly under trees, as it will not only grow in such places, but forms a fine sward where few other grasses can exist. Sow 25 lbs. to the acre. 65c lb.; \$6.25 for 10 lbs.

**TIMOTHY.** (*Phleum Pratense*, Herd's Grass, Cat's-tail Grass.) This grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel as to circumstances. Market price. Two-Bushel Seamless Bags 20c Each. Add 10c per lb. extra if sent by mail.



Orchard Grass.



Perennial Rye Grass.

## SORGHUM OR SUGAR CANE.

Sorghum is being used extensively as a green food for cattle, horses and mules. It is a sure crop, being a great drought resister and an immense yielder, producing many tons of most nutritious green food to the acre. Specially fine for milch cows when pasture is short.

**EARLY ORANGE CANE.** A strong grower; much more juicy than any other variety. The stalk is heavier, and a little later than Amber. 5c lb.; 10 lbs. 40c; bushel (50 lbs.) \$1.40

**EARLY AMBER CANE.** This popular and well known variety is the earliest, and makes the finest quality of both sugar and syrup. Plant in drills ¼ to 1 bushel; broadcast, 1 to 1½ bushels to the acre. 5c lb.; 10 lbs. 40c; bushel (50 lbs.) \$1.40

Two-Bushel Seamless Bags 20c Each. Add 10c per pound extra if sent by mail.

# Clovers or Artificial Grasses.

If you want quality to stand test ORDER BUCKEYE OR OUR HIGHEST GRADE.

Add 10 Cents Per Pound Extra if Sent by Mail. Bags Extra—Two-Bushel Seamless Bags at 20 Cents Each.

**ALFALFA OR LUCERNE.** (*Medicago Sativa.*) One of the best varieties, succeeding in almost every situation. Will bear cutting three or four times during the season. For bringing up poor land it is the best of the clovers, as it not only produces large masses of foliage, but forces its roots down fully three feet into the earth. Sow in the spring to secure a good stand before winter. If to be used for pasturage or curing, sow 20 to 30 lbs per acre.  
25c lb.; \$2.30 for 10 lbs.; \$21.00 for 100 lbs.

Lower grades at their value.

**ALSIKE OR SWEDISH.** (*Trifolium Hybridum.*) An excellent variety of luxuriant growth and very sweet; valuable for bee pasturage or ensilage. Sow 6 to 8 lbs. per acre.  
20c lb.; \$1.85 for 10 lbs.; \$16.50 per 100lbs.

**BOKHARA CLOVER.** (*Melilotus Alba.* Sweet Clover.) A rapid-growing, white-flowered sort; a good bee food. Sow 10 to 15 lbs. per acre.  
20c lb.; 10 lbs. for \$1.40

**BOKHARA CLOVER, YELLOW FLOWERED.** The Yellow Flowered Sweet Clover has been grown in Kentucky for a number of years. It makes first class hay and excellent pasture for cattle and sheep. That the stock will leave everything else and hunt out the Sweet Clover. It will grow in any kind of soil, and being deep rooted, remains green in the driest season, making good pasture when everything else is burned brown. As a fertilizer or soil enricher it has few equals.  
20c lb.; 10 lbs. for \$1.40

**JAPAN CLOVER.** (*Lespedeza Striata.*) It thrives on poor land and produces continual herbage. Not adapted to Northern latitudes, as it is only half-hardy. Sow 10 to 12 lbs. per acre.  
30c lb.

**RED CLOVER.** (*Trifolium Pratense.*) In ordering, always state quality desired, otherwise will send the best. Our Grades are Buckeye, Export Fancy, Choice and Prime. Sow 8 to 10 lbs. per acre.  
Market price.

**SAPLING OR MAMMOTH CLOVER, ENGLISH CLOVER, COW GRASS, PERENNIAL RED CLOVER.** (*Trifolium Pratense Perenne.*) It is valuable when sown with other grasses, for mixed hay, as it ripens later than the common Red Clover. The best for soiling purposes. Sow 10 to 12 lbs. per acre.  
Market price.

**SCARLET, CRIMSON OR CARNATION CLOVER.** (*Trifolium Incarnatum.*) Annual. Time of flowering June. Height, 1½ to 2 feet. Where a single crop is wanted, this is one of the best Clovers that can be grown; it makes good hay and is excellent for feeding green, the yield being immense, and after cutting it at once commences to grow again, and continues until freezing weather, but, being an annual, dies after maturing its seed. It is no longer an experiment, having been grown extensively in the South, especially in Virginia. It is suitable to all soils, and furnishes for them more plant food in a short time than can be obtained any other way. It far outyields the ordinary Red Clover, and is earlier by two or three weeks. Should be sown in August to October, also early spring. 10 to 15 lbs per acre.  
15c lb.; \$1.40 for 10 lbs.; \$13.00 per 100 lbs.

**WHITE DUTCH CLOVER.** (*Trifolium Repens.*) The best variety for lawns, as it forms a close herbage and remains green throughout the season; it is also excellent for bee food. Sow 6 to 8 lbs. per acre.  
35c lb.; \$3.25 for 10 lbs.; \$30.00 per 100 lbs.

Customers when in need of large quantities, send list of wants for lowest market price.

Add Ten Cents Per Pound Extra if Sent by Mail.

## Northern Grown Seed Corn.

Prices subject to market changes. Seamless Bags holding 2 Bushels, 20 cents each extra.

Our seed corn has been grown for us by specialists in Ohio and Indiana for seed, and will be found of the highest grade as to quality and germinating power. Sow eight quarts to the acre. Prices quoted by express or freight, not prepaid.

**McCullough's Champion White Dent.** The best White Dent Corn. If planted early say May 10th to 20th, it will come nearer making a crop of corn without rain than any other known variety. Makes a wonderful growth as far south as Georgia. In fact, it will mature in any corn country. It grows a strong, vigorous, deep-rooted stalk, stands up well, and in strong land and good season will make from 100 to 125 bushels per acre. Ears 10 to 12 inches long—well filled at tip and butt.  
45c pk.; \$1.40 bu.

**Peerless.** (White.) Will mature in 90 days, therefore may be sown later than any other variety, and still there is no danger of it being damaged by frost. Produces generally two large ears to the stalk, and in good land will yield 100 bushels to the acre.  
40c pk.; \$1.35 bu.

**King of the Earliest Dent.** An early yellow corn, adapted for high latitudes, and will mature in 80 to 85 days.  
40c pk.; \$1.40 bu.

**Gold Mine.** Early Yellow Dent, ripening only a few days later than King of the Earliest; ears are of good size and symmetrical; grain is very deep; cob small.  
40c pk.; \$1.25 bu.

**Early Mastadon.** The largest early Dent Corn in cultivation. It is 90 to 100-day corn, with long grain, very large ears, and will outyield any corn in the world.  
40c pk.; \$1.45 bu.

**Golden Beauty.** Beautiful golden color, strong grower, of remarkable-size. The rows are straight and filled out to the extreme end of the cob. Ripens in 110 to 120 days.  
40c pk.; \$1.25 bu.

**Silver Mine.** One of the best yielding White Dent Corns. Cylindrical shape, tapering a little at the tip end; 18 to 20 rows; kernels deep and cobs small. A fine shelling and high yielding variety.  
40c pk.; \$1.35 bu.

**Leaming Yellow.** Ears of good size, cob red and small. A strong grower, and very prolific.  
35c pk.; \$1.20 bu.

**Red Cob Ensilage.** A southern type of large white corn, with deep red cob, strong leafy stalks and short joints. Adapted to all sections of the country, and a general favorite, with thousands of dairy farmers.  
\$1.10 bu.; \$10.00 for 10 bu.

**Sugar Corn for Ensilage.** There is nothing better for green feed or curing for winter, than sweet corn. Cattle highly relish it, and when fed on it, keep in fine condition and give an abundance of milk. It has the great merit of being so sweet and palatable that cattle eat every part of the stalks and leaves, and consequently none is wasted. Also excellent for soiling. Sow thickly in drills or broadcast at the rate of two to three bushels per acre.  
50c pk.; \$1.75 bu.



# Farm, Field, Forage and Silo Seeds.

We give special attention to the quality of all our Farm Seeds, and send out only re-cleaned stock. It is our aim to send out absolutely pure stock, true to name. For green manures, we recommend sowing thickly Scarlet Clover, Sugar Cane, Vetches, Cow Peas, Field Peas, Rye and Oats, and plowing under.

While we expect to adhere closely to prices quoted in this list, still, owing to market fluctuations, it is impossible to guarantee prices, but all orders with remittance will be filled at lowest market prices on day of receipt.

## Millets, Essex Rape, Kaffir Corn, Sorghum and Vetches.

Add 10 Cents Per Pound Extra if Sent by Mail. Bags Extra—Two-Bushel Seamless Bags at 20 Cents Each.



Japanese Barnyard Millet.

**TENNESSEE OR GERMAN GOLDEN MILLET.** Several years ago we introduced this variety and since that time it has become a standard with farmers everywhere. We have fully demonstrated that German Millet grown in the northern and western states becomes deteriorated and soon resembles Fox Tail in quality and yield. We have again secured a full supply of Tennessee or German Golden Millet (cultivated seed), which we know will give the very best satisfaction to the farmer. Sow 1 bushel per acre. 45c peck; \$1.65 bushel.

**NORTHERN OR WESTERN GROWN MILLET** ..... 40c peck; \$1.40 bushel.

**HUNGARIAN GRASS.** This grass resembles the Millet; it is of fine growth, and makes an excellent hay. Sow 1 bushel per acre ..... 40c peck; \$1.40 bushel.

**HOG MILLET.** Known also as Broom Corn Millet. The name Hog Millet has been applied to emphasize the use to which it is now being put as a valuable food for hogs; also good food for birds and poultry. Sow 1 bushel per acre ..... 45c peck; \$1.50 bushel.

**PEARL MILLET OR "PENCILLARIA."** This quick-growing forage plant has been long known under the name of East India, or "Cat-Tail Millet." When planted and cultivated like corn, the plants attain a height of eight to ten feet, with slender stalks and slender long-bladed leaves. When sown broadcast or drilled in rows, 12 to 18 inches apart, 8 to 10 pounds per acre should be used ..... Per lb. 15c; 10 lbs. \$1.20; 100 lbs. \$10.00

**JAPANESE BARNYARD MILLET.** Sometimes called Billion Dollar Grass. It has proven an enormous yielder in all sections of the U. S. producing hay and fodder of most excellent quality and growing on any soil. It grows to a height of 6 to 8 feet and produces from 12 to 30 tons per acre. Cattle and horses eat it greedily and fatten rapidly. It is a remarkable stooler and should not be sown very thickly—10 to 12 pounds per acre broadcast being sufficient. In drills 3 pounds per acre. Per lb. 10c; 10 lbs. 75c; 100 lbs. \$4.50

**DWARF ESSEX RAPE.** A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further South. It is sown broadcast, 6 pounds to the acre, but is better drilled, in which case 3 pounds to the acre will suffice. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. Stockmen, dairymen and farmers have proved its value.

10c lb.; 10 lbs.; 85c 100 lbs. \$7.00

**WHITE KAFFIR CORN.** It grows from 4 to 5 feet high, making a straight upright growth. It has stalky stem, with enormous wide leaves. The stalks keep green and are brittle and juicy, making excellent fodder, either green or dried, which is highly relished by cattle, horses and mules. The seed heads form at the top of each stalk, and as soon as these show the grain well, the joints next below the top send up shoots, which yield the second seed heads. For the grain sow in rows 3 feet apart. 3 to 5 pounds of seed to the acre. For fodder, sow 25 to 50 pounds, either broadcast or in drills. 5c lb.; 10 lbs. 30c; 100 lbs. \$2.00

**VETCHES—SPRING TARES.** (*Vicia Sativa*.) Sown broadcast at the rate of 1 to 1 1/2 bushels to the acre, like wheat or barley, and some times mixed with oats for soiling. Used in France and Canada as a substitute for peas. . . 10c lb.; 15 lbs. for \$1.00; bushel (60 lbs.) \$3.00

**VETCHES—SAND, WINTER OR HAIRY.** (*Vicia Villosa*.) Thrives on poor, arid, sandy soils. Is sown either in fall or spring, and generally mixed with rye as a support to the plants. Grows to a height of from three to four feet, and can be cut twice for fodder, first as soon as the bloom appears, and then it can be again cut for the seed. The plant is perfectly hardy, and the produce is recommended as most nutritious. Should be sown at the rate of 1 1/2 bushels to the acre. . . . 15c lb.; 15 lbs. for \$1.75; bushel (60 lbs.) \$6.00

## Selected Seed Potatoes. (Kartoffel, Ger.)

Owing to market fluctuations, prices subject to change without notice.

We select our Seed Potatoes in the best northern districts and expressly for seed purposes. As prices are liable to vary, we shall be pleased to give quotations on application.

They are put up in barrels of about 2 3/4 bushels each. No charge for barrels. Bags 10 cents each.

**Bovee.** Extra early, very productive, of fine quality. Flesh white and very dry.

**Early Six Weeks.** Extra early, oblong in shape; flesh solid; cooks dry and mealy.

**Triumph.** Extra early, fine bright red skin, white flesh.

**Early Ohio.** (Red River Stock.) A week earlier than Early Rose. Cooks dry and mealy.

**Early Rose.** The leading variety for earliness and productiveness.

**Early Beauty of Hebron.** Ripens with the Early Rose; valuable market variety.

**Burbank's.** Flesh fine grained and of excellent flavor; very productive.

**Chicago Market.** Very popular, early, good quality and yields well.

**White Star.** A large cropper, fine floury texture and delicious flavor.

**White Elephant.** Late, large, enormously productive, and of excellent flavor.

**Maggie Murphy.** A first-class late variety, good size and yielder.

**SEED SWEET POTATOES.** Yellow and Red Jersey. Red Bermuda and Southern Queen. Write for prices. Ready for shipment about April 1st. For Plants see page 31.

**ARTICHOKE, JERUSALEM.** Makes an enormous yield of nutritious and health preserving hog and cattle feed. Produces an immense quantity of tops, which makes excellent food when properly cured. Plant in rows about four feet apart, dropping the tubers fifteen inches apart in the rows. It requires about three bushels to plant an acre. The tuber can be divided same as potatoes ..... 50c pk.; \$1.25 bu.; \$3.00 bbl.

# COW PEAS, SOJA BEANS, Etc.

## SOUTHERN COW PEAS.

### The Great Land Renovator.

Their value as a fertilizing crop exceeds that of clover, for, in addition to being a larger Nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of Potash and Phosphoric Acid, thus putting the soil in most excellent condition for following crops.

The feeding value of Cow Peas, either green fed as hay or preserved as ensilage, is very high, being considerably above that of Red Clover.

The yield of green vines per acre runs ordinarily from five to fifteen tons.

The yield of peas varies according to varieties, conditions of soil, etc., from ten to thirty bushels per acre.

Cow Peas, like all other crops, thrive best on good ground.

Sow 1 1/4 to 1 3/4 bushels per acre, on land thoroughly pulverized and disc or plow with a cultivator or double shovel plow. If wanted for hay, cut when peas are forming, cure as clover. If peas are for fertilizer, sow same quantity after same preparation as for hay; turn under when peas are in bloom. If farmers will first roll and disc peas they will turn under much easier and be more satisfactory. For a fertilizer, especially to be followed by wheat or corn, they are simply the best. Bear in mind that the Southern Cow Peas belong to the Bean family, therefore must not be sown until the ground is thoroughly warm and all danger from frost is past.

At the time of going to Press the market for Cow Peas and Soja Beans is such that it is impossible to name a satisfactory firm price. We will quote special prices on application, or all orders accompanied with the money will be filled at the lowest market price, quality considered, upon receipt.

**Early Black.** Matures quickly, best variety for the extreme northern sections of the country, gives a large yield of vines and peas. Seed large.

**Black Eye.** Similar to the Black as to yield of vines and peas, generally more prolific, requires a little longer season to mature.

**Whip-Poor-Will.** An early variety, tall, upright, medium yield of vines, large yield of peas, for which they are particularly grown. Highly recommended for "hogging down."

**Clay.** The leading variety in the South. Large yield of vines and peas, but require longer season to mature than the former-named varieties. Fine for summer pasture or green feeding, or to turn under green for soiling.

**Mixed Cow Peas.** These are splendidly adapted for those who merely wish same for feeding purposes, and being mixed, we are able to offer them at a lower price.

**SOJA BEANS.** Valuable forage plant; has attracted increasing attention yearly. It is one of the most nutritious of all vegetable products. It will produce a crop of twenty to thirty bushels per acre, and is as easily grown as other beans. For pasturing or feeding as green fodder it is very valuable, and nearly equal to clover for fertilizing. The dry beans, when ground, makes an excellent meal for feeding to milch cows. When roasted and ground they form an excellent substitute for coffee. Sow half a bushel per acre broadcast, or plant in drills three feet apart, and 1 to 1 1/4 feet between the plants, dropping two or three beans in each hill, which will require one gallon per acre.

### BROOM CORN.

Plant 8 to 10 quarts to the acre.

**Improved Evergreen.** The best for general cultivation; brush firm, of good length and bright green color .....\$2.25 bushel  
**Spring Barley** .....\$1.10  
**Beardless Barley** ..... 1.10 "

Owing to market fluctuations, will quote prices on application, stating quantity wanted.

**CANADA FIELD PEAS.** For fodder, in mixture with oats, sow at the rate of two bushels each per acre, or sown alone at the rate of three bushels per acre, for plowing under. Used as feed for pigeons .....\$1.65 bushel

**SUNFLOWER, MAMMOTH RUSSIAN.** May be grown to great advantage in waste ground, from early spring to the latter part of July. An excellent and cheap food for fowls. Plant 10 to 12 pounds per acre...10c lb.; 100 lbs. \$4.00

**TEOSINTE.** (Reane Luxurians.) The stalk can be cut several times during the season. Should not be planted until the soil is perfectly warm in spring. Requires about 4 pounds of seed per acre .....75c lb.; 5 lbs. \$3.25

**HEMP SEED.** We are large handlers of domestic Hemp Seed, and will be pleased to quote market prices upon application. Sow at rate of 1/4 to 1 bushel per acre.

**FLAX SEED.** Northwestern. Sow at rate of 1/4 to 1 bushel per acre.....Market price.

**SPELTZ. The Wonderful grain from Russia.** The heads are somewhat similar to two-rowed barley, the spikelets being separated from each other in such a manner that the crop is not easily injured by the weather. Can also be sown in the fall, being hardy, and will produce a fair crop under almost any condition of climate. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of any other grains; in fact all kinds of animals seem to thrive on it. Yields 80 to 100 bushels of richer food than corn, besides giving as much as 4 tons of good hay per acre. Excellent for pasture and can also be fed in the green state. Will grow well and produce enormous crops on poor soil. Dry weather appears to have no effect on it. It is a wonderful stouter and a robust grower. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre.  
 5c lb.; 40c for 10 lbs.; \$1.50 for 50 lbs.; \$2.50 for 100 lbs.

### SELECTED SEEDS OATS.

#### Prices on application.

Broadcast 2 to 3 bushels to the acre.

**Big Four.** Very early; heavy and stiff straw.

**Red Rust-Proof.** These are the standard oats of the Southern States, yielding large crops when all other sorts were destroyed by rust. It is a large, heavy, reddish-looking berry, very prolific.

**Winter Turf.** Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre of fine, heavy grain, weighing from 35 to 50 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop.

**White, Black and Mixed** .....Market price.

### BUCKWHEAT.

Should be sown about the middle of June, broadcast, using from 1/2 to 1 bushel to the acre.

**Japanese.** This sort has proven to be much earlier and more productive than any other variety. The grains are very large and of a rich brown color. It excels all in yield and earliness. 40c pk.; \$1.15 b.

**Silver Hull.** A very good and popular variety. The grain is of light gray color, is rounder than the common variety, has a much thinner husk, matures earlier, and yields a half more to the acre .....40c pk.; \$1.25 bu.

## MISCELLANEOUS BIRD AND SUNDRY SEEDS.

	Per lb.
Black Locust .....	.40c
Honey Locust .....	.40c
Castor Beans .....	.20c
Canary Seed (3 lbs. 25c) .....	.10c
Mixed Bird Seed (3 lbs. 25c) .....	.10c
Caraway Seed .....	.15c
Coriander Seed .....	.15c
Celery Seed, for flavoring .....	.20c
Cotton Seed .....	.20c

	Per lb.
Cuttle Bone (1 oz. 5c) .....	.40c
Fennel Seed .....	.15c
Flax Seed (3 lbs. 25c) .....	.10c
Flax Seed (crushed) .....	.10c
Hemp Seed (3 lbs. 25c) .....	.10c
Lettuce Seed, for birds .....	.20c
Maw or Poppy Seed .....	.15c
Millet, for birds' .....	.5c
Millet, Pearl .....	.10c

	Per lb.
Mustard Seed, white, for pickles .....	.10c
Mustard Seed, crushed .....	.10c
Mustard Seed, black .....	.10c
Osage Orange—Bois D'Arc .....	.35c
Pumpkin Seed .....	.15c
Rape Seed (3 lbs. 25c) .....	.10c
Sunflower Seed (4 lbs. 25c) .....	.10c
Watermelon Seed .....	.15c
Bird Gravel (3 lbs. pkg.) .....	.10c

If sent by mail 10 cents per lb. extra for postage.

The Prices Quoted Are Subject to Market Changes. When in Need of Large Quantities We Will Be Pleased to Quote Lowest Market Prices. Bags Charged Extra. Two-Bushel Seamless, 20c Each. Ten Cents Per Pound Extra if Sent by Mail.



# McCULLOUGH'S SELECTED FLOWER SEEDS

## GENERAL LIST.

The following list of Flower Seeds has been carefully revised, and contains only the leading varieties of acknowledged merit carefully selected and thoroughly tested. Annuals grow from the seed, bloom and perish in one season. Biennials generally bloom the first and second years and then die. Perennials bloom the second year and every year thereafter, some perishing after three years, others continue indefinitely. Some perennials, if started early, bloom the first year.

We offer the following inducements to those who wish to purchase Flower Seed packets in quantity; the low rates apply only to seeds by the packet, does not include collections, seeds sold by weight, or bulbs and plants.

For 25c. select	6 five-cent pkts.	For \$1.00 select seeds in pkts to the amount of \$1.30
For 25c. "	3 ten-cent "	For 2.00 " " " " 2.65
For 50c. "	13 five-cent "	For 3.00 " " " " 4.00

All Flower Seeds Sent Free by Mail on Receipt of Price.  
Full Cultural Directions on Each Package.

ORDER BY NUMBER, AND THUS AVOID WRITING THE NAME IN FULL.

**ABUTILON.** (Chinese Bell Flower).—Greenhouse shrubs of easy cultivation, with beautiful drooping bell-shaped flowers of various colors; sown any time before April, in a temperature of sixty degrees, they will produce fine flowering plants the first season; can be planted outside during the summer. Half Hardy perennial.

1 **Finest Mixture** of choicest varieties and colors.

10c pkt.; 3 pkts 25c

**ACROCLINIUM.** A beautiful class of everlasting flowers. Charming border plants, and valuable for winter bouquets. The flowers should be cut before they are fully open; hardy annual.

2 **Double Mixed.** All colors, 1 foot. . . . . 5c pkt.

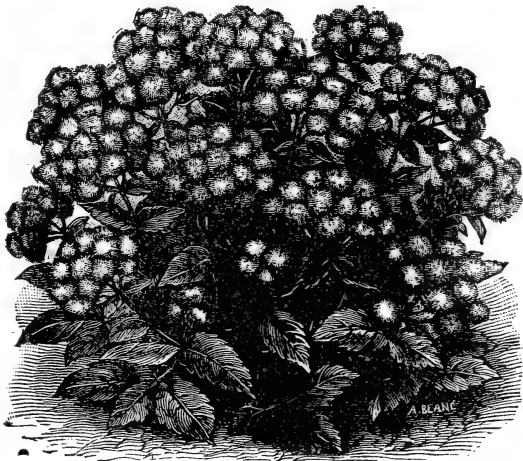
**ADLUMIA.** (Mountain Fringe, or Allegheny Vine.) A graceful hardy biennial climber; the feathery foliage closely resembles that of the Maiden-hair Fern; the flowers are tube-shaped, and completely cover the plant. For covering trellises, stumps of trees, etc. it is very desirable.

3 **Cirrhusa.** Pale pink, 15 feet. . . . . 5c pkt.

4 **AGATHEA Coelestis.** (Blue Marguerite.) A free-blooming plant with blue daisy-like flowers. Fine for winter flowering inside. Tender perennial. 1½ feet. . . . . 5c pkt.

**AGROSTEMMA.** (Rose of Heaven.) An attractive free-flowering hardy perennial of easy culture, producing flowers on long slender stems like a single pink. Blooms the first season. Fine for cutting; 1 to 2 feet.

5 **Mixed Varieties.** . . . . . 5c pkt.



**Ageratum—Blue Perfection.**

**AGERATUM.** Valuable plants for large beds or borders, and very useful where cut-flowers are in demand; in bloom the whole summer. Easily raised from seed, which should be sown in March, in a hot-bed or window, and transferred to the open ground in June; also good for winter blooming, of easy culture, succeeding in any soil. Half-hardy annual.

6 **Blue Perfection.** Dwarf compact growth, large dark-blue flowers; valuable for borders and bedding. . . . . 5c pkt.

7 **Grandiform Album.** Large pure white fragrant; a great improvement on the old white sorts. . . . . 5c pkt.

8 **Lasseauxii.** Fine rose, long bloomer, 1½ feet. . . . . 5c pkt.

9 **Little Dorrit.** Azure blue, very floriferous, ¾ ft. . . . . 5c pkt.

**Allegheny Vine.**—(See Adlumia.)

**AMARANTHUS.** Brilliant foliated annuals, growing from three to six feet high. All are useful in borders of tall plants or for the centers of large beds. They should not be grown too closely together, but given sufficient room to develop their full beauty. Hardy annual.

10 **Brilliant.** Foliage bright red, the ends of the branches bear a combination of carmine, rose, red and yellow, 4 to 6 feet. 5c pkt.

11 **Caudatus.** (Love Lies Bleeding.) Long drooping scarlet flowers, 3 feet. . . . . 5c pkt.

12 **Tricolor Splendens** (Joseph's Coat). Rich glowing, scarlet crimson, effectively marked with yellow and bronze green, 2 feet . . . . . 5c pkt.

The T. M. McCullough's Sons Co., Cincinnati, O.:

Tavern, Tenn.

Dear Sirs:—Last spring I ordered from you a small supply of Seeds, which I received in due time, and now, since my crop has been grown from them, I wish to tell you that I am well pleased. Each fine early cabbage and beans I never did grow before, and the Enormous Norwood and Ponderosa Tomatoes can't be beat, or I never seen their equal yet.

All of the packages were larger than I usually get elsewhere, and the seeds have given me better results than some others that I planted along side of them.

Yours truly, GEO. H. PARKER.

**ALYSSUM.** One of the sweetest and most useful summer flowers. It may be used for edgings, rock work, hanging baskets, etc. Continues in bloom the entire season; free-flowering and easily cultivated. Hardy annual.

- 13 Sweet. Flowers pure white.....oz. 25c, 5c pkt
- 14 **Little Gem.** Dwarf, compact habit, three to four inches high, excellent for edging; white flowers.....oz. 40c, 5c pkt.
- 15 **Saxatile Compactum.** A valuable hardy perennial for early spring, producing a mass of bright yellow flowers. ½ft. 5c pkt.

**AMMOBIUM.** One of the hardiest of everlastings, desirable for the garden, but more valuable for forming winter bouquets, in connection with grasses and other everlastings. The flowers should be gathered before fully opened. Hardy annual.

- 16 **Alatum Grandiflorum.** White, large flower.....5c pkt.

**AMPELOPSIS.** A hardy perennial climber, with olive green leaves, which turn to scarlet in the autumn. The best and most popular climber for covering brick or stone walls.

- 17 **Veitchii.** (Boston or Japanese Ivy) Fifty feet. 10c pkt; 3 pkts. 25c

**ANTIRRHINUM.** (Snapdragon). One of our most showy and useful border plants. The improved varieties of this valuable genus have large finely-shaped flowers of brilliant colors, with beautifully marked throats. They succeed in any good garden soil, and are effective in beds; are worthy of the most extensive cultivation. Hardy perennials, blooming the first year from seed; 1 to 2 feet.



Alyssum—Little Gem.



Antirrhinum—Nanum.

old fashioned favorite is one of the best of all hardy plants. Hardy perennial, 1 to 3 feet.....Per pkt.

- 27 **Alba Flore Plena.** Beautiful double pure white variety, 1 ½ feet.....5c
- 28 **Californica Hybrida.** Large yellow flowers, with dark orange spurs.....10c pkt, 3 pkts. 25c
- 29 **Chrysantha.** Bright golden yellow, fine; 3 feet.....5c
- 30 **Coerulea.** (Rocky Mountain Columbine). Sepals deep blue, petals white; extra fine, 3 feet.....10c pkt, 3 pkts. 25 cts.
- 31 **Coerulea Hybrida.** Large flowered long spur hybrids.....10c pkt, 3 pkts. 25c.
- 32 **Glandulosa Vera.** Large erect blue flowers, with pure white corolla; a splendid flower.....10c pkt, 3 pkts. 25 cts.
- 33 **Skinneri.** Scarlet tipped with green, very handsome and quite distinct.....10c pkt, 3 pkts. 25 cts.
- 34 **Double Mixed.** Choice colors.....5c
- 35 **Single, Mixed.** Choice colors.....5c

- 18 **Grandiflorum Firefly.** Large flowering brilliant scarlet.....10c pk., 3 pkts. 25 cts.
- 19 " **Queen Victoria.** Large flowering pure white.....10c pkt., 3 pkts. 25 cts.
- 20 " **Romeo.** Large flowering deep rose.....10c pkt., 3 pkts. 25 cts.
- 21 " **Roseum.** Large flowering light rose, white throat.....10c pkt., 3 pkts. 25 cts.
- 22 **Tall Finest Mixed.**.....5c pkt.
- 23 **Nanum Golden Queen.** Large flowering pure yellow, extra fine.....10c pt., 3 pkts. 25. cts.
- 24 **Nanum Queen of the North.** Grows one foot in height, and covered with large white flowers. A gem for beds, orders and pot culture.....10c pkt. 3 pkts. 25c
- 25 **Dwarf Finest Mixed.**.....5c pkt.
- 26 **ARCTOTIS, GRANDIS.** Handsome annual, with large flower heads 2 to 3 inches across. Pure white with light blue center the under side petals being pale lilac. Of the easiest culture, and flowering in constant succession from early summer until late fall. ...10c pkt.; 3 pkts. 25c

**AQUILEGIA.**

(Columbine)  
Popular free-flowering plants blooming profusely through the spring and early summer. For planting in permanent borders or along the edges of shrubbery this



Aquilegia.

**ASTERS.**

The Aster is one of the most popular and effective of our garden favorites. For beauty and variety of habit, form and color it stands unrivaled. Give the aster a deep, rich soil, and a mulching of coarse manure is very beneficial. A little liquid manure occasionally will give good results. Sow early in the house, and transplant into pots or boxes. As soon as the weather is warm enough, plant in beds about twelve inches apart. Half hardy annuals.

- 36 **McCullough's Premier Mixed.** This mixture is composed of the finest large flowering double varieties, which for size of flower excellence of color and habit cannot be surpassed. Grown by specialists in Europe and America, each variety imported separately and mixed by ourselves: the finest ever offered. ....oz. \$5.00, ½oz. 70c, 3 pkts. 25c. 10c pkt.
- 37 **Betteridge's Improved Quilled.** Perfectly double, quill-shaped petals, valuable for bouquets or bedding. Finestmixed; 1 ½ ft. 5c per pkt.
- 38 **Dwarf Queen.** Large-flowering Aster, of dwarf habit, bearing profusely full double imbricated flowers, of great beauty. Splendid for bedding or cutting; mixed colors.....10c pkt. 3 pkts. 25 cts.
- 39 **EARLY SNOWDRIFT.** The best large flowering early White Aster in Cultivation. The size and make up of the flower not surpassed by any of the late varieties. The plant is erect and of branching habit; Flowers large, pure white and double. Petals long, recurved and twisted, which gives it a very graceful effect.....10c pkt.; 3 pkt. 25 cts.



McCullough's Premier Aster.

- 40 DAYBREAK. The flowers are large, and double to the center. Color an exquisite shell pink. The plant is a strong, compact grower, and the flowers are borne upright on long stiff stems. . . . . 10c pkt. 3 pkts. 25cts.
- 41 LAVENDER DAYBREAK. The habit of growth is similar to that of Daybreak, but the flowers are larger in size, always full to the center and of a beautiful shade of Lavender. . . . . 10c pkt. 3 pkts. 25 cts.
- 42 PURITY. (White Daybreak) A pure white Aster of great beauty. The plant is of symmetrical habit, growing about 18 inches high. The plants are one mass of white flowers of large size, resembling great balls of snow. As a cut flower variety Purity is first class, the stems being long and strong, and the plant is of free and branching habit . . . . . 10c pkt. 3 pkts. 25 cts.

43 ROYAL PURPLE. The flowers are large with full centers well covered, petals flat and incurved. Color a rich shade of Royal Purple. This variety is distinct in growth from the branching Asters. The side stems start from the main stem close to the ground, and not in side shoots from the main stem. . . . . 10c pkt.; 3 pkts. 25 cts.

CARLSON or INVINCIBLE. The early flowering branching Aster. A selection of the Paeony flowered type. The flowers are large and firm; the stems long and stiff, and the colors decided and pleasing. The plants grow about 24 inches high and come in bloom about ten days before the Giant Branching Asters. . . . . Per pkt. . . . . Per pkt.

44 Lavender. . . . . 10c	47 Violet Blue. . . . . 10c
45 Daybreak Pink. . . . . 10c	48 White. . . . . 10c
46 Rose Pink. . . . . 10c	49 Mixed. All colors. . . . . 10c

Collection Containing one package each of the five colors. . . . . 30c

GIANT COMET. One of the handsomest of the tall growing sort. The plants grow about 2-feet high and bear in great abundance their beautiful flowers. These flowers, with their long, twisted petals, strikingly resembles Japanese Crysanthemums and are of large size. . . . . Per pkt.

50 Azure Blue. . . . . 10c	54 Violet. . . . . 10c
51 Crimson. . . . . 10c	55 White. . . . . 10c
52 Rose. . . . . 10c	56 Yellow. . . . . 10c
53 The Bride. White. . . . . 10c	57 Mixed. All colors. . . . . 10c

Collection Containing one package each of the seven colors. . . . . 50c

HOHENZOLLERN. The finest type of the Giant Comet, or Ostrich Feather Asters. Much larger than the Giant Comet, the petals longer, more curled and twisted, and produced in greater abundance. Borne on long stems. . . . . Per pkt.

58 Brilliant Rose. . . . . 10c	61 Pink. . . . . 10c
59 Crimson. . . . . 10c	62 White. . . . . 10c
60 Light Blue. . . . . 10c	63 Mixed. All colors 10c

Collection containing one packet each of the 5 colors, 30c.

Paeony Perfection. One of the best and most extensively cultivated, having large, double, beautifully incurved flowers freely produced in the most brilliant colors; 2 ft. . . . . Per pkt.

64 Brilliant Rose. . . . . 10c	68 Rose and White. . . . . 10c
65 Brilliant Scarlet. . . . . 10c	69 Light Blue. . . . . 10c
66 Dark Blue. . . . . 10c	70 Snow White. . . . . 10c
67 Glowing Dark Crimson. . . . . 10c	71 Finest Mixed, all colors. . . . . 10c

Collection containing one packet each of the 7 colors, 50 cts.



Paeony Perfection Aster.

Queen of the Market. A profuse-blooming class, coming into bloom three or four weeks before other sorts. Extensively grown by florists for early cutting, 1 to 1 1/2 ft. . . . . Per pkt.

72 Crimson. . . . . 5c pkt.	75 Rose. . . . . 5c pkt.
73 Dark Blue. . . . . 5c pkt.	76 White. . . . . 5c pkt.
74 Light Blue. . . . . 5c pkt.	77 Mixed. All colors . . . . . 5c pkt.

Collection containing one packet each of the 5 colors 20c.

Simple's Branching. Beautiful Asters for cut-flowers. The branching habit is accompanied with great vigor of growth and profusion of bloom. The flowers are large double, with graceful wavy petals, borne on long stiff stems, and the colors are clear and handsome. Late flowering. Excellent for cutting, 2 ft. . . . . Per pkt.

78 Carmine. . . . . 10c pkt.	81 Purple. . . . . 10c pkt.
79 Pink. . . . . 10c pkt.	82 White. . . . . 10c pkt.
80 Lavender. . . . . 10c pkt.	83 Mixed. All colors. . . . . 10c pkt.

Collection containing one packet each of the 5 colors 30c.

MCCULLOUGH'S IMPROVED VICTORIA. An unrivaled and favorite class. The flowers are of great size, measuring four inches and over across, beautifully imbricated and perfect in form, of great richness and variety of color; from twenty to forty on a plant; height, 1 1/2 ft. . . . . Per Pkt.

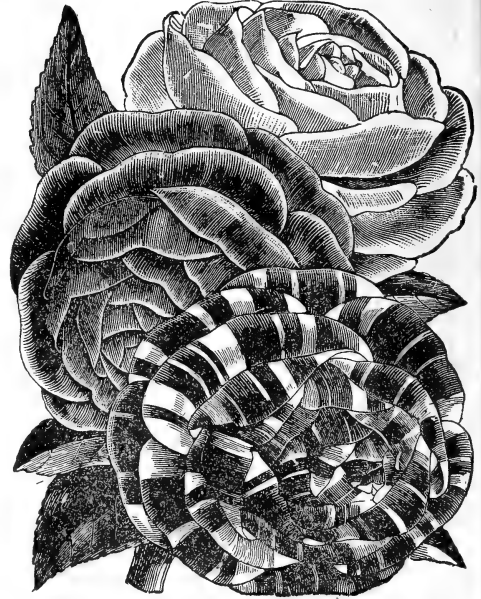
84 Blue and White. . . . . 10c	89 Scarlet. . . . . 10c
85 Crimson. . . . . 10c	90 White. . . . . 10c
86 Dark Blue. . . . . 10c	91 Yellow. . . . . 10c
87 Light Blue. . . . . 10c	92 Finest Mixed. All colors. . . . . 10c
88 Rose. . . . . 10c	Collection containing one packet each of the 8 colors 55c

93 Fine Mixed. A splendid mixture of colors. . . . . 50c; 5c pkt.



Simple's Branching Aster.

- 94 **ASPARAGUS PLUMOSUS NANUS.** This graceful climbing Asparagus has fine foliage, and will last for weeks after being cut. It is an excellent house plant..... 10c pkt., 3 pkts. 25 cts.
- 95 **ASPARAGUS SPRENGERI.** (Emerald Feather). One of the best plants to grow in baskets, for greenhouse or for outdoors in the summer. The fronds frequently grow 4 feet long, and are now considered indispensable in all fine decorations; grows readily from seed..... 10c pkt., 3 pkts. 25 cts.
- BALSAM.** (Lady Slipper, or Touch-Me-Not). One of the oldest and best known summer-blooming annuals, of easy culture. Desirable for garden or pot culture. The soil should be of the richest and best quality. Set them about 15 inches apart, and give them plenty of manure-water. Tender annuals; 2 feet. Per pkt.
- 96 **McCullough's Premier Mixed.** Unrivaled for the great variety of color and size of flower; includes all the most desirable shades and colors..... oz. \$1.50, 10c
- 97 **Double Camellia Flowered, Mixed.** Of perfect form, beautiful colors..... oz. \$1.25, 10c
- 98 **Prince Bismark.** Brilliant salmon rose flowers; very double, of finest camellia-flowered type..... 10c
- 99 **White Perfection.** The finest pure white grown; flowers unusually large, solid and double..... oz. \$1.50, 10c
- 100 **Double Solferino.** White, striped, purple and scarlet..... 5c
- 101 **Double Pink, Rose Flowered.**..... 5c
- 102 **Double Scarlet, Rose Flowered.**..... 5c
- 103 **Choice Double Mixed.** All kinds..... oz. 50c, 5c
- BACHELOR'S BUTTON.**—(See Cyanus.)  
**BALSAM APPLE AND PEAR.**—(See Momordica.)  
**BALOOON VINE.**—(See Cardiospermum.)
- BEANS.** Very rapid climbers; flowering profusely, and admirably adapted for covering screens, etc.
- 104 **Scarlet Runner.** Fiery Scarlet..... 5c pkt.



Balsam McCullough's Premier Mixed.



Single Begonias.

- BEGONIA.** Plants of great value for summer decoration. To secure the best results, they should be planted as soon as the ground becomes warm. They are covered the whole summer with bright and elegant drooping flowers; blooming the first season from seed, if sown in February or March, in a temperature of 60 degrees. For winter and spring blooming, sow from August to October. Tubers must be kept from frost in dry sand. Greenhouse perennial.
- 105 **Gracilis Luminosa.** This differs from Begonia Gracilis in the lustrous reddish brown color of the foliage, while the flowers measuring 1 to 1½ inches across, are of a fiery dark scarlet. It is very free flowering, and where massed produces a splendid effect. No better sort for groups and bedding has yet been seen..... Pkt. 20c, 3 pkts. 50 cts.
- 106 **Single Tuberos Rooted.** From prize winning varieties in finest mixture..... pkt. 15c, 2 pkts 25c
- 107 **Semperflorens. Single Mixed.** This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson. Extra fine..... pkt. 10c, 3 pkts. 25 cts.
- 108 **Vernon.** Bright orange-carmine flowers, deep red foliage..... pkt. 10c, 3 pkts. 25 cts.
- 109 **Rex Hybrida.** Beautiful varieties, with variegated foliage, choice mixed..... pkt. 25c
- BELLIS.** (Double Daisy.) A favorite nearly hardy, perennial plant, in bloom from April to June. The seed we offer is saved from the finest double varieties. Easily raised from seed sown in the spring.
- 110 **Longfellow.** Large, double dark pink flowers; with long stiff stems..... 10c pkt. 3 pkts. 25 cts.
- 111 **Snowball.** A beautiful white variety, with long stem, and very double flowers; fine for cutting..... 10c pkt., 3 pkts. 25 cts.
- 112 **Giant Double.** Beautifully and densely imbricated flowers 1½ to 2 inches in diameter. Finest mixed..... 10c pkt., 3 pkts. 25 cts.

**BLACK-EYED SUSAN.**—(See Thunbergia.)

**BLUE-BOTTLE OR RAGGED SAILOR.**  
 (See Cyanus.)

**BRACHYCOME.** (Swan River Daisy.) Free-flowering, dwarf-growing plants, covered during the greater part of the summer with a profusion of pretty, Cineraria-like flowers. Suitable for edgings and small beds, or pot culture. Half-hardy annual; 1 foot.

113 **Finest Mixed.** Light blue and white..... 5c pkt.

**BROWALLIA.** Free-flowering plants, covered with rich delicate flowers, which continue to bloom during the summer and autumn. Sow during April and May, in good, light, rich soil. Half hardy annual.

114 **Finest Mixed.** All colors..... 5c pkt.

**BRYONOPSIS.** A beautiful annual climber of the gourd species, with ivy-like pale green foliage and showy fruit, first green striped white, turning when ripe to bright scarlet striped white.

115 **Laciniosa.** 10 feet..... 5c pkt.

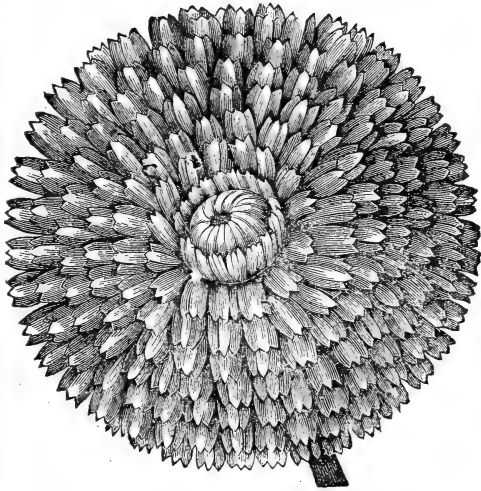
**CACTUS.** Beautiful plants for pot culture in the window or greenhouse. The flowers of some are very beautiful, and the foliage of others very curious.

116 **Mixed Varieties.**..... 15c pkt., 2 pkts. 25 cts.



Group of Cacti.





Calendula Prince of Orange.

**CALENDULA.**—(Pot Marigold.) Showy, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders and continuing in bloom until killed by frost; valuable also for pot culture, blooming freely in winter and early spring; 1 ft.

- 117 **Pongel Flore Pleno.** Showy double white flowers. . . . . 5c Pkt.
- 118 **Prince of Orange.** This variety surpasses in beauty the well-known Calendula Meteor. The stripes around each petal are of a deep orange color, making a brilliant appearance . . . . . oz. 25c., 5c
- 119 **Pure Gold.** A grand variety, with double extra large flowers of a pure golden yellow. . . . . 5c

**CALCEOLARIA.** Unsurpassed for pot culture in the greenhouse or conservatory; producing their brilliant flowers in great profusion and variety. The blooms are remarkable for their oddness of shape, and for their richness, diversity, and variety of color.

- 120 **Hybrida Grandiflora.** Mixed. From the finest formed and most beautiful marked varieties, striped and spotted 25c pkt.



Coreopsis Lanceolata Grandiflora.

**CALLIOPSIS OR COREOPSIS.** Showy and beautiful free-flowering plants blooming all summer and excellent for cutting. 1½ to 2 feet.

- 121 **Coronata Maxima.** Showy large pure yellow flowers; excellent for bedding hardy annual. . . . . 40c oz., 5c pkt.
- 122 **Golden Wave.** A very showy sort, with bright golden-yellow flowers, with small dark centers, blooming profusely. Hardy annual . . . . . 30c oz., 5c pkt.
- 123 **Finest Mixed.** All colors mixed. Hardy annual . . . . . 30c oz., 5c pkt.
- 124 **Lanceolata Grandiflora.** One of the finest hardy garden plants forming large clumps, grows 2 to 3 feet high and increasing in beauty, luxuriance and floriferousness each year, though it flowers the first season from seed sown early. It is an improved variety of the lanceolata type, producing long-stemmed, rich yellow flowers flowering in profusion for a long period during the summer; unequalled for cutting; grows anywhere. Hardy perennial. Pkt. 10c, 3 pkts. 25 cts.

**CALIFORNIA POPPY.**—(See Eschscholtzia)

**CAMPANULA.** Well known beautiful hardy herbaceous perennial, bearing a great profusion of attractive bell-flowers; thriving best in light rich soil; some of the varieties flower the first season if planted early.

- 125 **Calycanthema.** (Cup and Saucer.) A fine variety producing white, blue, and rose colored flowers resembling a Cup and Saucer . . . . . 5 cts. pkt.
- 126 **Persicifolia Grandiflora.** One of the finest of the hardy Bell-flowers, grows 2 to 3 feet high with large blue or white flowers; finest mixed. . . . . Pkt. 10c, 3 pkts. 25 cts.
- 127 **Double Mixed.** All colors. . . . . 5c pkt,
- 128 **Single Mixed.** All colors. . . . . 5c pkt.

Wilson, Ohio.

The J. M. McCullough's Sons Co., Cincinnati, Ohio.

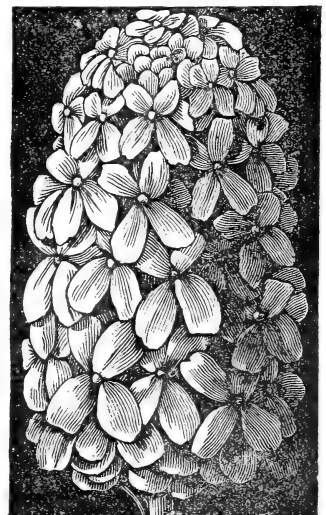
Dear Sirs:—Your Suburban Lawn Grass Seed I bought last spring is fine. I found you can't make a nice lawn without sowing good seed and plenty of it. I have a good lawn for one season's start. Yours truly, THOS. EDWARDS.

**CARDIOSPERMUM.** (Baloon Vine.) A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons.

- 129 **Cardiospermum.** (Love-in-a-Puff) White; 5 feet. . . . . 5c pkt.

**CANDYTUFT.** Universally known and cultivated, and considered indispensable for cutting. All the varieties look best in beds or masses. Seed sown in autumn produces flowers early in spring; when sown in April, flowers from July to frost comes. Hardy and easy to cultivate. Single plants transplanted look well and bloom profusely. Hardy annuals. Per pkt.

- 130 **Giant Hyacinth Flowered.** Improved strain. The flower heads are of immense size, 6 inches long and about 3 inches across, resembling a Dutch Hyacinth. They are pure white, and furnish excellent material for cutting. . . . . oz. 40c, 5c
- 131 **Empress, or Snow Queen.** Large trusses of pure white flowers, fine florist's variety. . . . . oz. 30c, 5c
- 132 **White Rocket.** Pure white, large truss. . . . . oz. 20c, 5c
- 133 **Carmine.** . . . . . oz. 25c, 5c
- 134 **Atropurpurea.** Dark crimson. . . . . oz. 20c, 5c
- 135 **Finest Mixed.** All colors. . . . . oz. 20c, 5c
- 136 **Perennial Candytuft Sempervirens.** A profuse white-blooming hardy perennial, adapted for rockeries, baskets, etc.; 1 foot. . . . . 5c
- 137 **Perennial Candytuft Gibraltarica Hybrida.** Very fine species, with white flowers shading off to lilac; 1 foot. . . . . 10c pkt; 3 pkts 25c



Candytuft Giant Hyacinth Flowered.



**CANNA.** (Indian Shot Plant.) Highly ornamental plants, producing a rich effect by their large, broad and massive foliage and spikes of brilliant flowers. Soak the seeds 12 hours in hot water before planting; sow in sandy loam or peat, and place in a hot-bed when up to the second leaf, pot off singly and keep under glass until the proper season for planting out. Half-hardy perennial.

- 138 **Crozy's Large-flowering Dwarf, French.** Comprising all the most beautiful varieties. (See cut).....oz. 40c. 5c pkt.
- 139 **Gigantea Major.** Dark red; 6 to 8 feet..... 5c pkt.
- 140 **Dark-leaved Varieties.** Fine mixed..... 5c pkt.
- 141 **Fine Mixed.**.....oz. 25c. 5c pkt.

**CARNATION.** (Dianthus Caryophyllus.) The splendid Carnation of the florist is a very interesting plant to grow from seed. Sown under glass in early spring, or later in the open ground, the plants will flower finely the second summer. For largest richest flowers we recommend their culture in pots of rich soil, but with many they are also garden favorites, and grown in this way flowers of good quality may be enjoyed all summer if given plenty of water, good soil and a mulch about their roots. Young plants are hardy outdoors, but when two or three years old they are injured by winter cold, so that sowings should be made every year.

- 142 **Marguerite.** These are deservedly the most popular Carnation with the amateur, as they begin flowering in four months from time of sowing. The strain offered is of semi-dwarf robust habit, producing on long, strong stems an abundance of large beautifully fringed, highly-scented flowers. Finest mixed...¼ oz. 50c. 5c pkt.
- 143 **Marguerite Giant.** An improved strain, producing flowers of immense size, frequently measuring 2½ to 3 inches across, strong vigorous growers and very free flowering. Finest mixed 10c pkt., 3 pkts. 25 cts.
- 144 **Chabaud Giants.** (Earliest French Perpetual.) Improved large-flowering class of finest colors. Combining earliness with the perfection of flowers of the perpetuals.....20cts. pkt. 3 pkts. 50 cts.



**Crozy's Cannas.**

- 145 **Grenadin.** Brilliant double scarlet; dwarf..... 10c pkt., 3 pkts. 25 cts.
- 146 **Extra Choice, Mixed.** From the finest-named varieties 15c pkt., 2 pkts. 25 cts.
- 147 **Fine Double, Mixed.** The hardiest and best varieties for garden culture.....10c pkt., 3 pkts. 25 cts.

**CASTOR OIL BEAN.—(See Ricinus.)**

**CELOSIA, OR COCKSCOMB.** Free-blooming, graceful plants, growing best in rather light soil, not too rich, producing spikes of beautiful feathery and comb-shaped flowers; grown in pots, they are fine for the greenhouse or conservatory. The plumed varieties are fine for cutting and drying for winter bouquets which should be done when they are in full bloom, and before they fade. Half-hardy annuals.

- 148 **Glasgow Prize.** A superb sort, with enormous rich deep crimson combs.....10c pkt., 3 pkts. 25 cts.
- 149 **Magnifica.** A fine variety of pyramidal branching growth; covered with handsome feathery plumes, the flower spikes range in color from yellow to darkest red, 10c pkt., 3 pkts. 25 cts.
- 150 **Spicata.** A handsome variety 2½ feet high, with numerous branches surmounted, with flower spikes of a bright rose color the lower part changing to a silvery white, making a pleasing contrast..... 5c pkt.
- 151 **Ostrich Feather, Crimson.** A most attractive strain, with fine long-plumed or feathered flower sprays; 3 feet..... 5c pkt.
- 152 **Golden Plume.** Pyramidal habit. Flowers bright golden yellow..... 5c pkt.
- 153 **Plumosa, Finest Mixed.** Charming annual, with magnificent feathered spikes; 1½ feet..... 5c pkt.



**Marguerite Carnation.**

**CENTAUREA.** Under this name is included such popular annuals as the Cornflower, Blue-bottle or Ragged Sailor, Sweet Sultans, etc. They are favorites in all sections of the country, and are much in demand as cut flowers. The ornamental white-leaved sorts, or Dusty Millers, are largely used for bedding, vases, etc.

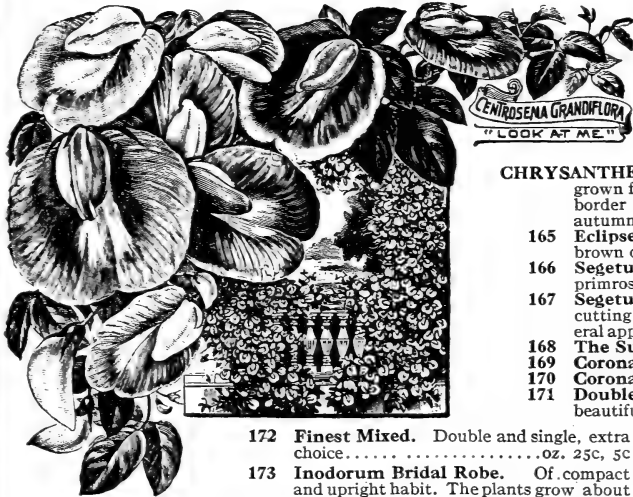
- 154 **Imperialis.** This beautiful class are undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition; of easy culture, but prefer a cool position. Finest mixed.....oz. 50c; 5c pkt.
- 155 **Imperialis Lavender.** Pale blue, excellent for cutting 10c pkt., 3 pkts. 25 cts.
- 156 **Chameleon.** Large fragrant flowers, constantly changing in hue from a bright yellow to lilac and rose.....10c pkt. 3 pkts. 25 cts.
- 157 **Marguerite.** A pure white variety, with large and deliciously fragrant flowers; fine for bouquets..... 5c pkt.
- 158 **Cyanus Emperor William.** Finest dark blue.....oz. 20c, 5c pkt.
- 159 **Cyanus Finest mixed.** All colors.....oz. 20c, 5c pkt.
- 160 **Cyanus Double.** Produces double globular heads of flowers of large size and filled up to the center with florets.....oz. 30c, 5c pkt.
- 161 **Queen of Blue Bottles.** Resembles the Blue Corn Flower; the color, however, is of a more intense blue and handsomely contrasted by a crimson center. The plants commence to bloom earlier than the ordinary Bachelor's Button and continue longer.....oz. 30c, 5c pkt.

**SILVER-LEAVED CENTAUREAS.** Fine for bedding, vases, hanging baskets and pots; also extensively used for margins. As an edging to a bed of dark leaved Cannas are very effective. Sow the seed from December to April.

- 162 **Candidissima.** Silvery white, leaves broadly cut..... 10c pkt., 3 pkts. 25 cts.
- 163 **Gymnocarpa.** Fine-cut silver gray foliage.....oz. \$1.00, 10c pkt. 3 pkts. 25 cts.



**Celosia. Glasgow Prize.**



**CENTROSEMA.** (Butterfly Pea.) This interesting and beautiful hardy perennial vines of rare and exquisite beauty. It blooms early in June from seed sown in April, and bears in the greatest profusion inverted pea-shaped flowers, from 1½ to 2½ in. in diameter, ranging in color from a rosy violet to a reddish purple.

164 *Grandiflora*.....pkt. 10c, 3 pkts. 25 cts.

**CHRYSANTHEMUM.** Showy and effective garden favorite, extensively grown for cut flowers. The hardy annuals are summer flowering border plants; good for pot culture, and quite distinct from the autumn flowering varieties

- 165 *Eclipse*. Golden yellow, with a bright scarlet ring and dark brown disc..... 5c
- 166 *Segetum Morning Star*. Beautiful large, pale yellow or primrose, excellent for cut flowers..... 5c
- 167 *Segetum Evening Star or Helios*. A splendid variety for cutting, flowers 3 inches across, of pure golden yellow; in general appearance resembles the Yellow Paris Daisy 3 pkts. 25 cts. 10c
- 168 *The Sultan*, Crimson maroon, golden yellow centre..... 5c
- 169 *Coronarium*. Double White..... 5c
- 170 *Coronarium*. Double Yellow..... 5c
- 171 *Double Fringed Hybrids*. Fine strain, with large, double beautifully fringed flowers in many colors..... 5c

**Flower Seeds By Weight.**

We carry a large stock of Flower Seeds and can furnish any quantity desired of any sort.

Send your list for estimate.

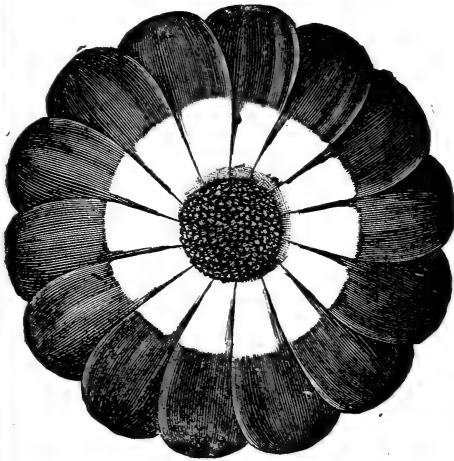


**Single Chrysanthemum.**

176 *Hybrida Grandiflora*. This strain of Cineraria cannot be surpassed, either for size of flowers or beauty of color. Many of the blooms measure 2½ inches in diameter. We have received very flattering reports from florists and private gardeners of their success with our Cineraria seed..... 25c pkt.; 3 pkts. 60c

**COBAEA.** A climber of rapid growth, valuable for covering trellises, arbors, trunks of trees, etc. will cling to any rough surface. In sowing place seeds edgewise and merely cover with light soil.

- 177 *Scandens*. Large, bell-shaped purple flowers..... 5c pkt.
- 178 *Scandens Alba*. Pure white..... 10c pkt. 3 pkts. 25 cts.



*Cineraria Hybrid Grandiflora.*

**COLEUS.** One of the most beautiful of our variegated foliage plants for house and garden decoration, of rapid growth and easy culture.

- 179 *Large-Leaf Varieties*. Finest mixture, saved from varieties, with very large and superbly variegated foliage..... 20c pkt., 3 pkts. 50 cts.

**COLUMBINE.**—(See Aquilegia)

**CONVOLVULUS MAJOR.** (Morning Glory.) One of the most free-flowering and rapid growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed. Hardy annuals; 15 feet.

- 180 *Finest Mixed*. All colors..... 15c, 5c pkt.
- 181 *Double Flowering*. About eighty per cent of the seedlings will produce double flowers, the remainder semi-double or single..... 5c pkt.
- 182 *Imperial Japanese, Fringed*. The flowers are of gigantic size, exquisite variety of colors and magnificent marbled foliage. The flowers measure from four to six inches across. The colors are limitless in variety and very beautiful. This mixture contains a finer and larger collection of colors with larger flowers, more frilled than the ordinary mixture..... 40c; 10c pkt.
- 183 *Japanese Morning Glory*. Fine Mixed. All colors..... 20c; 5c pkt.

**COREOPSIS.**—(See Calliopsis.)

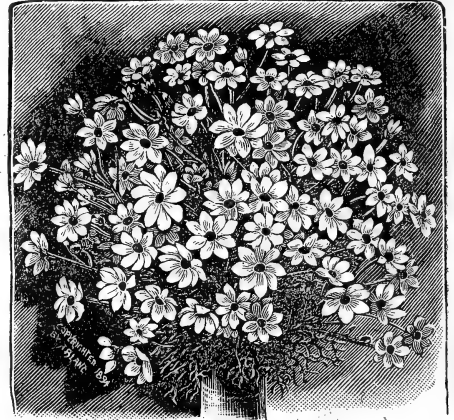
**CYPRESS VINE.** (Ipomea Quamoclit.) One of the most popular vines, with delicate fern-like foliage, and masses of beautiful, small star-shaped flowers. Half-hardy annual; 15 ft.

- 184 *Scarlet*..... 25c; 5c pkt.
- 185 *White*..... 25c; 5c pkt.
- 186 *Mixed Colors*..... 25c; 5c pkt.



*Imperial Japanese Morning Glory.*

**COSMOS.** Beautiful autumn-blooming plants. The flowers are borne profusely on long stems, and present a charming appearance when the plants are in full bloom. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. It is of the easiest culture, planted about eighteen inches apart in rows or in masses in beds. When the plants are about a foot high, the tops should be pinched out to induce a bushy growth, and this should be continued until the middle of July, when the same should have formed nice bushy plants three feet high by the same in diameter. They produce, from September until cut down by frost, thousands of beautiful flowers, furnishing an abundance of cut blooms for autumn decoration when other flowers are scarce.



Cosmos.

- 187 **California Monster Hybrids.** The flowers of this strain are of immense size and produced in great diversity of form and color. Finest mixed.....oz. \$1.00; 10c pkt.
- 188 **Giant Early Flowering, Finest Mixed.** Superb mixture in every shade, from pure white to crimson, and in great variety of forms. Immense flowers, four to five inches in diameter. ....oz. \$1.00; 10c pkt.
- 189 **Large-Flowered Perfection.** **Crimson**.....oz. 75c; 5c pkt.
- 190 " " " **Pink**.....oz. 75c; 5c pkt.
- 191 " " " **White**.....oz. 75c; 5c pkt.
- 192 " " " **Mixed**.....oz. 60c; 5c pkt.

**CYCLAMEN. Persicum Giganteum.** Charming plants, with beautiful foliage and rich-colored, fragrant flowers, universal favorites for winter and spring blooming. The Giganteum varieties have large leaves and stout flower stocks, throwing the flowers well above



Cyclamen.

the foliage. Seed may be sown any time during the autumn or spring, in shallow boxes (two inches deep) at a temperature of 60 degrees. As soon as the seedlings have made two leaves, transplant into 2-inch pots, and place on shelf near the light shaded from direct sunlight. Shift into 3-inch size, and into larger as the operation becomes necessary.

- 193 **Duke of Connaught.** Rich purplish crimson, of unusually large size..... 25c pkt.; 3 pkts. 60c
- 194 **Excelsior.** White, red base; fine..... 25c pkt.; 3 pkts. 60c
- 195 **Mont Blanc.** Pure white; extra fine..... 25c pkt.; 3 pkts. 60c
- 196 **Princess May.** Bright pink, beautiful large flowers of fine form. .... 25c pkt.; 3 pkts. 60c
- 197 **Finest Mixed.** A magnificent strain, with flowers of large size and great substance. The leaves are large and beautifully marked with silver gray.....25c pkt.; 3 pkts. 60 cts.

**DAHLIA.** One of the best autumn flowering plants; blooms until killed by frost; tuberous-rooted half-hardy perennials, blooming the first year from seed, if sown early; protect the roots during winter in a dry cellar in sand 2 to 6 feet.

- 198 **Double Large Flowered.** Saved from the best double largest flowered sorts; unrivalled strain..... 10c pkt.; 3 pkts. 25 cts.
- 199 **Pompon.** Small flowered from named varieties; very fine. .... 10c pkt.; 3 pkts. 25 cts.
- 200 **Single Giant Perfection.** A new strain, surpassing all others in size and colors..... 10c pkt.; 3 pkts. 25 cts.
- 201 **Cactus.** An extra fine strain of this favorite type ..... 10c pkt.; 3 pkts. 25 cts.

**DATURA.** (Trumpet Flower.) In large clumps and borders of shrubbery they produce an excellent effect, continuing in bloom until frost; flowering the first year from seed, if sown early. They can be preserved in sand during the winter in a dry cellar free from frost. Half-hardy perennials; 3 feet.

- 202 **Arborea.** (Burgmansia.) Large single trumpet-shaped, white, fragrant flowers, about 12 inches long; plant out in May. .... 10c pkt.; 3 pkts. 25 cts.
- 203 **Cornucopia** ("Horn of plenty,") A grand variety; the flowers average eight inches long by five across; French white inside, purple outside; delightfully fragrant; started early will flower from early summer until frost..... 10c pkt.; 3 pkts. 25 cts.
- 204 **Double Golden.** Large double flowers, of a deep golden yellow; delightfully fragrant..... 5c pkt.

**DELPHINIUM.** (Perennial Larkspur.) One of our most showy and useful plants, producing splendid spikes of flowers in profusion throughout the summer. If sown early they will bloom the first year from seed. Hardy perennials.

- 205 **Chinese.** A distinct and neat variety, growing about 18 inches high, with fine feathery foliage and producing freely spikes of large blossoms varying in color through all the delicate shades of blue ..... 10c pkt.; 3 pkts. 25 cts.
- 206 **Elatum** (Bee Larkspur.) Rich deep blue, very free blooming 4 feet..... 5c pkt.
- 207 **Elatum Hybridum Fl. Pl.** Finest double sorts in choice colors a superb mixture..... 10c pkt.; 3 pkts. 25 cts.
- 208 **Elatum Hybridum Nanum.** Grows 3 to 3 1/2 ft. in height and develops a splendid and long continued show of bloom. They produce extra large flowers in all shades of blue, from the lightest celestial to the deepest Indigo. They will bloom the first season if sown early ..... 15c pkt. 2 pkts. 25 cts.
- 209 **Formosum.** Beautiful spikes of brilliant rich blue flowers, with a white center. 2 1/2 feet..... 5c pkt.
- 210 **Kelway's New Hybrid.** The finest strain of Larkspurs. The flower spikes are stiff and strong, crowded with flowers, double and single, shading from light blue to the intensest indigo and purple shades. Extra fine..... 15c pkt.; 2 pkts. 25 cts.
- 211 **Nudicaule.** Dwarf, compact growth, with spikes of bright scarlet flowers; 18 inches..... 10c pkt.; 3 pkts. 25 cts.
- 212 **Zalil.** A lovely shade of sulphur yellow, 4 ft ..... 10c pkt.; 3 pkts. 25 cts.



Double Dahlias.

**DIANTHUS OR PINKS.** A magnificent genus, embracing some of the most popular flowers, producing a great variety of brilliant colors and profusion of bloom; highly valued for cutting. The hardy biennials, or Chinese and Japanese varieties, bloom the first season, the same as hardy annuals; height 1 foot. The hardy perennial varieties are fragrant and of easy culture for the garden or greenhouse.

- DOUBLE ANNUAL VARIETIES.** Pkt.
- 213 **Chinensis FI. PI.** (Chinese Pink.) Double finest mixed.....oz. 30c, 5c
  - 214 **Heddewigii FI. PI.** (Japan Pink.) Very large flowers.....oz. 60c, 5c
  - 215 **Heddewigii Fireball.** Double brilliant scarlet, free blooming.....10c pkt.; 3 pkts. 25c
  - 216 **Heddewigii Purity.** A large flowered, double pure white variety; clove scented.....10c pkt.; 3 pkts. 25c
  - 217 **Diadematus FI. PI.** (Diadem Pink.) Beautiful large double flowers splendid variety.....oz. 75c, 5c pkt.
  - 218 **Imperialis FI. PI.** (Double Imperial Pink.) A very pretty variety beautifully variegated.....oz. 60c, 5c pkt.
  - 219 **Laciniatus FI. PI.** Large double flowers, with fringed edges and beautifully striped.....oz. \$1.00, 5c pkt.
  - 220 **Mourning Cickak.** Double purple, margined with white; very fine.....oz. 75c, 5c pkt.
  - 221 **Nobilis FI. PI.** A double flowering form of the Royal Pinks. The plants are strong and robust with blue-gray foliage, flowers of largest size, varying in color from scarlet to dark blood-red, rose and white. 10c pkt.; 3 pkts. 25 cts.

**SINGLE ANNUAL VARIETIES.** Pkt.

- 222 **Crimson Belle.** Of largest size, dark crimson.....oz. \$1.00, 5c
- 223 **Eastern Queen.** Beautifully marked with light and dark mauve.....5c
- 224 **The Bride.** (Little Gem.) Large single, white, purple center very pretty.....oz. \$1.00, 5c pkt.
- 225 **Laciniatus.** A beautiful single-fringed variety, two or three inches in diameter. Mixed colors.....5c pkt.
- 226 **Laciniatus, Nanus Hybrids.** Very showy, fringed petals, with a dark ring around the centers of flowers;.....10c pkt.; 3 pkts. 25c

**HARDY PERENNIAL VARIETIES.**

These hardy varieties are well adapted for beds and borders, sweet-scented; should be in every garden where cut flowers are wanted.



**Dianthus.**

- 227 **Latifolius Atrococcineus FI. PI.** This beautiful Dianthus is a cross between the China Pink and Sweet William, combining the free and continuous blooming qualities of the former with the hardness of the latter. Color is velvety crimson-scarlet. Blooms freely from seed the first year.....10c pkt., 3 pkts. 25c
- 228 **Plumarius.** (Pheasants eye) A beautiful, single hardy pink, white flowers, with fringed edge and dark center.....5c Pkt.
- 229 **Plumarius FI. PI.** Double and Semi-double varieties in beautiful colors.....10c pkt.; 3 pkts. 25 cts.
- 230 **Semperflorens.** (Everblooming Hardy Garden Pink.) Very beautiful sweet-scented, double, semi-double and single flowers in great diversity of colors.....20c pkt.; 3 pkts. 50 cts.
- DIGITALIS.** (Foxglove.) A handsome and highly ornamental hardy perennial plant, of stately growth, fine for shrubberies and half-shady places; 3 feet.
- 231 **Gloxinaeflora.** Gloxinia-shaped flowers; a lovely type; all colors mixed.....5c pkt.
- 232 **Ivery's Spotted.** A splendid strain, containing all the best shades of color and exquisite markings.....5c pkt.
- 233 **Monstrosa.** Long spike of many flowers surmounted with one enormous flower.....5c pkt.
- DOLICHOS.** (Hyacinth Bean.) A rapid growing annual climber flowering freely in clusters, followed by ornamental seed pods, for covering arbors, trellises, etc. Sow the seed in the garden in April or May where they are to remain; 10 feet.
- 234 **Daylight.** One of the prettiest climbers; of very rapid growth. Will grow to a height of 15 feet. The flowers, which appear in great numbers, are snow-white, sweet-scented, and are followed by cream-colored pods which hang to the plants until late in the fall.....5c pkt.
- 235 **Mixed.** Purple and white.....oz. 15c, 5c pkt.
- DRACAENA.** Ornamental plants with long, graceful foliage, extensively used in vases and for house decoration. Tender perennial.
- 236 **Indivisa.** Narrow, dark green foliage.....10c pkt.; 3 pkts. 25 cts



**Eschscholtzia Californica.**

**DUSTY MILLER.** (See Centaurea.)

**ECHINOCYSTIS.** (Wild Cucumber vine.)  
237 **Lobata.** A quick growing climber. It will grow thirty feet in one season. It is thickly dotted over with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods. Splendid for covering trellises, old trees or unsightly buildings.....oz. 20c, 5c pkt.

**ESCHSCHOLTZIA.** (California Poppy.) A showy and profuse-flowering variety of plants, with rich, beautiful colors, Delights in rich soil. Very attractive for beds, edging or massing. Hardy annuals; 1 foot.

- 238 **Californica.** Bright yellow, with orange center.....oz. 25c, 5c pkt.
- 239 **Carmine King.** A beautiful carmine rose color, as intense on the inside as on the outside of the petals, which gives it an altogether novel and beautiful effect.....10c pkt.; 3 pkts. 25 cts.
- 240 **Golden West.** The flowers measure from 3 to 6 in. in diameter; they have large, overlapping petals, often daintily waved at the edges. Color, light canary-yellow, with an orange blotch at the base of the petals, which blotch often suffuses almost the whole flower.....5c pkt.
- 241 **Finest Mixed.** All colors.....oz. 20c, 5c pkt.

**EVERLASTING. ETERNAL OR STRAW FLOWERS.**

(See Acroclinium, Ammobium, Gomphrena, Helichrysum, Rhodanthem and Xeranthemum.)

**EUPHORBIA.** Strong-growing annuals suitable for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly ornamental.

- 242 **Heterophylla.** (Annual Poinsettia, Mexican Fire Plant, or Fire on the Mountain.) An annual bushy plant, with ornamental leaves, which in summer and autumn become blazed with a darker fiery red scarlet, so that only a tip of the green is left. Also valuable as a pot plant. 3 to 4 feet,.....10c pkt., 3 pkts., 25c.
- 243 **Variegata.** ("Snow on the Mountain.") A hardy showy border plant, with foliage vined and margined with white. Very attractive; 1 1/2 ft. Hardy annual.....5c pkt.

**FEVERFEW.**—(See Pyrethrum.)

**FORGET-ME-NOT.**—(See Myosotis.)



**Euphorbia Heterophylla.**

**FOXGLOVE.**—(See Digitalis.)



- GAILLARDIA.** Splendid showy plants, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November. Excellent for beds, borders, or for cutting. Annuals and perennials; 1 1/2 ft.
- 244 **Picta Lorenziana.** A charming profuse double-flowered strain; beautiful mixed colors. . . . . 5c pkt.
  - 245 **Single, Finest Mixed.** All colors. . . . . 5c pkt.
  - 246 **Grandiflora Superba.** Hardy perennial; splendid mixed varieties, 2 ft. . . . . 5c pkt.
  - 247 **Kelway's Hybrids.** The finest strain of Perennial Gaillardias. The flowers are of enormous size, and the colors are most varied. This is one of the hardy perennial plants that no garden should be without. In flower for about three months. 2 feet. . . . . 10c pkt. 3 pkts. 25 cts.

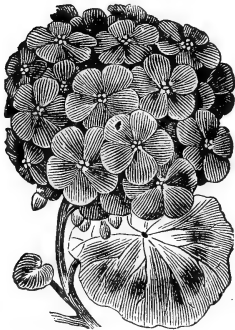


Gaillardia, Kelway's Hybrids.

**GERANIUM.** Although perennials they will produce nice bushy plants and flowers from seed soon the same season. The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown either for pot culture in winter or for bedding out in summer.

- 248 **Apple Scented.** Leaves delightfully fragrant; highly prized for bouquets. . . . . 15c pkt.; 2 pkts. 25c
- 249 **Zonale Large Flowering, Mixed.** From new varieties. 10c pkt.; 3 pkts. 25c

**GLOXINIA.** A superb genus of greenhouse plants, producing magnificent flowers of the richest colors; thrive best in an equal mixture of peat, loam and sand. Sow in March, on the surface in a warm, moist atmosphere and lay a pane of glass over pot or box. When the second leaf appears, transplant into shallow pots to grow through the summer. Allow them to rest through autumn, and keep in same pots through winter, giving little water. In the spring repot and water freely; will blossom second season. Stove perennial bulbs.



Geranium.

- 250 **Hybrida Erecta.** Erect large flowering varieties in splendid mixture. . . . . 25c pkt.
- GNAPHALIUM.** (Edelweiss.) This famous flower of the Alps is of a downy texture star-shaped, and pure white. They are highly prized as souvenirs, and are sold at a high price in Switzerland. . . . .

- 251 **Leontopodium.** White. . . . . 10c pkt.; 3 pkts. 25c
- GOMPHRENA.** (Globe Amaranth.) A desirable everlasting, valuable for its handsome globular heads of flowers. Seed germinate very slowly. If the cotton coating which surrounds it is removed, the seed will be more certain to grow. Half-hardy annual. . . . .

- 252 **Fine Mixed.** . . . . . 5c pkt.
- GOSETIA.** An attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors 1 1/2 ft. . . . .

- 253 **Finest Mixed.** . . . . . oz. 30c, 5c pkt'
- GRASSES, ORNAMENTAL.** When carefully dried, they are useful in making up winter bouquets. Cut when in full bloom, and before the flowers get too old; tie in small bunches and hang up in a dry, dark place, with the heads downward. . . . . Pkt.

- 254 **Briza Maxima.** (Large Quaking Grass.) A beautiful variety. Hardy annual; 1 foot. . . . . 5c
- 255 **Bromus Brizaeformis.** A graceful variety, with drooping panicles. Hardy perennial, flowering the first season; 1 foot. . . . . 5c
- 256 **Coix Lachryma.** (Job's Tears.) Broad, corn-like leaves and hard, shining, pearly seeds, resembling tears; 2 ft. . . . . 5c
- 257 **Erianthus Ravennae.** A hardy perennial, noble grass, with exquisite white plumes. Flowers the first season if sown very early; 10 ft. . . . . 5c

- 258 **Eulalia Japonica.** One of the most beautiful of the tall-growing grasses; hardy 5 feet. . . . . 5c pkt.
- 259 **Gynerium Argenteum.** (Pampas Grass.) The finest ornamental grass in cultivation. Half-hardy perennials; 10 ft. . . . . 5c pkt.
- 260 **Pennisetum Ruppelianum.** Beautiful and graceful spikes of purple; whether for border decoration or for bouquets this is one of the best; 2 1/2 feet 10c pkt.; 3 pkts. 25c
- 261 **Stipa Pennata.** (Feather Grass.) A hardy perennial; flowers the second season from seed; 2 feet. . . . . 5c pkt.
- 262 **Finest Mixed.** Used for making winter bouquets. . . . . 5c pkt.

**HINTS ON THE CULTURE OF FLOWERS FROM SEED.**

Much annoyance and disappointment may be saved by giving close attention to the following: Avoid especially deep planting, over-watering, under-watering or sowing too thickly.

**GYPSOPHILIA.** (Bridal Veil or Baby's Breath). Free-flowering little plants, completely covered with starry white flowers; succeeding in any soil; well suited for hanging baskets and edgings. Hardy perennial.

- 263 **Paniculata.** White, fine for bouquets. . . . . 5c pkt.

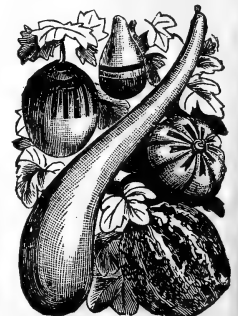
**GOURDS.** Climbing plants with curiously shaped fruit, in various colors. Being of rapid growth, they are fine to cover old fences, trellises, stumps, etc. The foliage is ornamental, and the marking of some of the fruit quite extraordinary. Do not plant the seed till all danger of frost is over, and select rich, mellow ground. Tender annual climbers, 10 to 20 feet high.



Gomphrena.



Gloxinia.



Gourds.

- 264 **Calabash or Dipper.** Long, slim handle. . . . . 5c
- 265 **Dish Cloth.** This variety is very ornamental, with clusters of large yellow flowers. The fruit, when dried, is used as a dish cloth. . . . . 5c
- 266 **Giant Bottle.** Large and ornamental. . . . . 5c
- 267 **Hercules Club.** A curious sort. Club-shaped. . . . . 5c
- 268 **Japanese Nest Egg.** White; fac-simile of an egg; do not crack, and are not injured by heat or cold. Very ornamental climbers. 5c
- 269 **Orange.** The well-known mock orange. . . . . 5c
- 270 **Pear-shaped.** Green and white striped. . . . . 5c
- 271 **Sugar Trough.** Used for buckets. Very large. . . . . 5c
- 272 **Fine Mixed.** All sorts. . . . . oz. 40c, 5c





**Helianthus Cucumerifolius.**

**HELIOTROPE.** A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a desirable bouquet flower; a splendid bedding plant, or can be trained as a greenhouse climber. Seed sown in the spring will make fine plants for summer blooming.

- 284 Lemoine's Giant. Of robust growth and producing heads of flowers double the size of the old sort.....10c pkt., 3 pkts. 25c
- 285 Finest Mixed. All colors.....5c pkt.

**FOR EARLY BLOOM.**

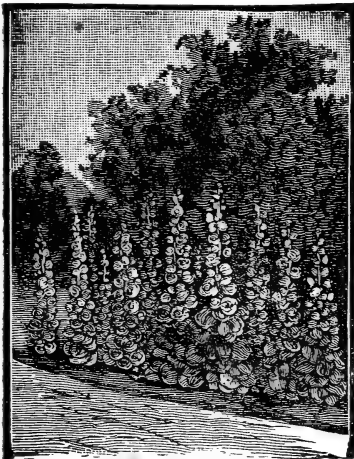
Flowering soon after the seed is sown, would recommend Alyssum, Candytuft, Calliopsis, Larkspur, Mignonette, Petunia, Phlox, and Double Poppies.

286 **Helipterum Sanfordi.** A very pretty border annual of the dwarf habit, bearing large globular clusters of bright golden-yellow everlasting flowers. 1 foot.....5c pkt.

**HOLLYHOCK.** Few hardy plants combine as many good qualities, or lend themselves as readily to varied uses, as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among the shrubbery, they are invaluable. The flowers form perfect rosettes of lovely colors. It is not surprising that this old favorite should again become popular; for, by careful selection, the flowers have been much improved. The Hollyhock requires a rich, deep soil, well drained, and will repay, in quantity and elegance of bloom, any extra care. A slight protection during winter will be beneficial. We make a specialty of Hollyhocks, and the seed we offer is saved from the best flowers of pure and bright colors. Seeds sown during the summer make strong blooming plants for the following year.



**Heliotrope.**



**Hollyhocks.**

- 287 **Everblooming.** Can be treated as annuals, the seeds may be started in the house or hot-bed in March or April, and will commence to flower in July, and stay in flower until late in the season. Colors vary from snowy white, rosy carmine yellow, blood-red to the deepest black in single; also in semi-double and double flowers. Plants branch out freely .....15c pkt.; 2 pkts. 25c
- 288 **Mammoth Fringed Allegheny.** Mammoth flowers of loosely arranged fringed petals, which look as if made from the finest China silk. The colors vary from the palest shrimp pink to deep red. The plants are of strong growth, sending up spikes 6 to 7 feet high.....10c pkt.; 3 pkts. 25c
- 289 **Chater's Prize, Double Mixed.** This strain stands unrivaled in richness and delicacy of coloring, with magnificent spikes of very double flowers. ....10c pkt.; 3 pkts. 25c
- 290 **Double Crimson**.....10c pkt.      293 **Double White**.....10c pkt.
- 291 **Double Pink**.....10c pkt.      294 **Double Yellow**.....10c pkt.
- 292 **Double Scarlet**.....10c pkt.      295 **Finest Mixed.** All colors. 5c pkt.
- 296 **Single.** Many prefer the single flowering. They are usually of freer growth present a handsome appearance when covered with their artistic blossoms .....10c pkt.; 3 pkts. 25c

**HIBISCUS.** (Marsh Mallows.) Showy, ornamental plants, for mixed beds or shrubbery borders having large-sized, varied and beautiful-colored flowers.

- 297 **Hibiscus Africanus.** Large, cream-colored flowers, with a brown center; hardy annual. 1 1/2 feet.....5c pkt.
- 298 **Crimson Eye.** Flowers of the largest size, pure white, with large spot of velvety crimson in the center of each flower. Hardy perennial; flowers the first year from seed sown early.....10c pkt.; 3 pkts. 25c

299 **Giant Golden Bowl.** A shrubby perennial, cup-shaped flowers from 6 to 9 inches in diameter. The color cream with a maroon center. The plants commence to bloom early and continue until cut down by frost. The seed should be started indoors and set out as soon as the weather is warm.....10c pkt.; 3 pkts. 25c

**HONESTY.** (Satin Flower.) Early free-flowering plants. Admired for their silver-like seed pods. Hardy biennial.

- 300 **Lunaria Biennis**.....5c pkt.

**SEEDS ARE DIFFERENT from other merchandise.** The real value of seeds can only be known after months of labor. Buy your seeds of a reliable seed house with a reputation back of it. Seeds of real merit must be grown and sold by practical, trained seedsmen, with a reputation made and to be maintained.

**HUMULUS.** (Japanese Hop.) Annual climbing Hop, of rapid growth, valuable for covering trellises and verandas. Tender annual.

- 301 **Japonicus** (Japan Hop.) Green foliage; 20 feet..... 5c pkt.
- 302 **Japonicus Variegatus.** A variegated variety of the Japanese Hop. The leaves are beautifully and distinctly marked. As with the green-leaved variety, it is never injured by insects nor affected by the heat, but retains its fresh and bright variegated foliage until late in the autumn..... 5c pkt.
- 303 **HUNNEMANNIA FUMARIAEFOLIA.** (Giant Yellow Tulip Poppy, or Bush Eschscholtzia.) This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow poppy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful feathery glaucous foliage..... 5c pkt.

**HYACINTH BEAN.**—(See Dolichos.)

**ICE PLANT.** Handsome and curious plants for hanging baskets, rock-work, vases and edgings. The leaves and stems are covered with crystalline globules giving it the appearance of being covered with ice. Succeeds best in a sandy soil and warm situation. Half-hardy.

- 304 **Mesembryanthemum. Crystallinum** (Ice Plant)..... 5c pkt.

**INDIAN SHOT.**—(See Cannas.)

**IMPATIENS.** (Zanzibar Balsam.) Charming plants for the decoration of the greenhouse or dinner table, producing their bright waxy-looking flowers profusely and almost continuously. The young seedlings should be repotted when about an inch high and very carefully handled, as they are exceedingly brittle at the outset.



**Humulus Japonicus Variegatus.**

- 305 **Holstil.** It forms elegant bushes 1½ feet in height. The flowers measure 1½ inches across and are of a brilliant vermilion color. In a half shady situation, the plants grow luxuriantly and form effective and showy flower beds, also an excellent pot plant. 25c pkt.; 3 pkts. 60c

- 306 **Sultana Hybrida.** Beautiful hybrids. Varying shades of color, from delicate pink to the deepest red..... 15c pkt.; 2 pkts. 25c

**IPOMEA.** Climbers of rapid growth, with beautiful and varied flowers; for covering old walls, trellises, arbors or stumps of trees, they are invaluable.

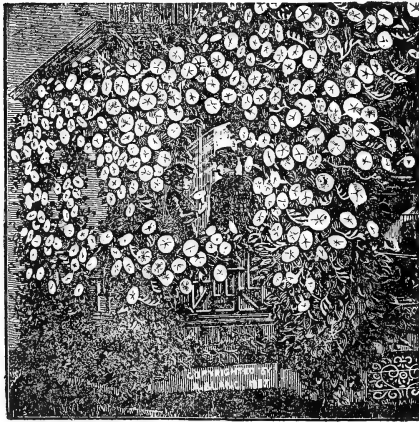
- 307 **Cross Bred or Hybrid Moon Flower.** At night and during dull days the plants are covered with an abundance of large, pure-white, fragrant flowers 5 to 6 inches in diameter. It is a rapid grower, and within a few months will grow as much as 40 feet. To insure germination, take a sharp knife and cut a small nick in shell of each seed, and soak in lukewarm water for about four hours before planting  
oz. 75c; 5c pkt.

**Strong plants, 20c each; \$2.00 doz. By mail, 25c each.**

- 308 **Setosa** (Brazilian Morning Glory.) Flowers 3 inches or more across, of a beautiful rose color, borne in large clusters very freely from July to frost. As a quick growing vine it has no equal, covering an enormous space in a few weeks time..... 5c pkt.

**KENILWORTH IVY.** A charming, small, neat, hardy perennial trailing plant, suitable for baskets, vases, pots and rock-work.

- 309 **Linaria Cymbalaria.** Lavender and purple..... 10c pkt



**Moon Flower, Cross Bred or Hybrid.**

**LADY SLIPPER.**—(See Balsam.)

**KOCHIA OR BURNING BUSH.** A highly ornamental annual of rapid growth which forms regular pyramids about 3 feet high, having a cypress-like appearance. The leaves are slender and of a light green until September, when they change to carmine and blood-red. The flowers are minute but countless. Sow indoors in April and plant out in May, or sow in open ground about May 1st. Plants do best in a sunny exposure.

- 310 **Kochia Tricophylla** ..... 50c oz. 5c pkt.

**LANTANA.** One of the most desirable half-hardy perennial greenhouse or bedding plants, constantly in bloom; Verbena-like heads of orange, white, rose, and other colors.

- 311 **Finest Mixed.** All colors..... 5c pkt.

**LARKSPUR.** (Annual Delphinium.) Hardy annuals, producing dense spikes of flowers which are very beautiful either in the garden or when cut for vases.

- 312 **Dwarf Rocket.** Finest mixed, double; 1 foot..... 5c pkt.
- 313 **Double Stock-flowered.** Fine for bedding. Choice mixed 5c pkt.

(For Perennial Larkspur, see Delphinium.)

**LATHYRUS.** (Everlasting Pea.) Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc.; continually in bloom, fine for cutting.

- 314 **Splendens.** Large deep crimson flowers. 10c pkt.; 3 pkts. 25c
- 315 **Fine Mixed.**..... 5c pkt.

**LAVENDER.** An aromatic plant used for scenting clothing, rooms, etc.

- 316 **Lavendula.** 1½ feet..... 5c pkt.

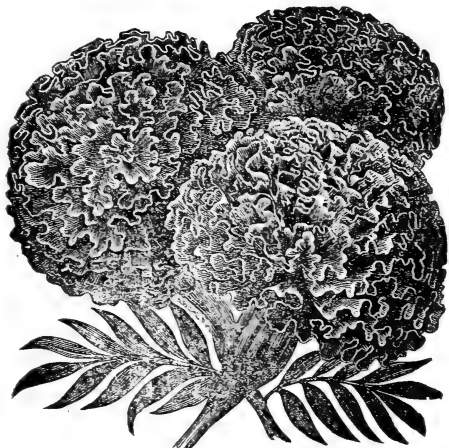
**LOBELIA.** A charming dwarf-plant, admirably adapted for beds, edgings and rock-work. Their delicate, drooping foliage, and pretty little blue and white flowers render them very attractive in pots or hanging baskets. The hardy perennial varieties are among the most attractive of our garden favorites, producing beautiful spikes of handsome flowers in autumn.

- 317 **Crystal Palace Compacta.** Rich blue; finest for bedding ..... 10c pkt. 3 pkts. 25c
- 318 **Hamburgia.** One of the prettiest Lobelias for hanging baskets, porch boxes, etc., flowers pale blue with white eye. 10 pkt. 3 pkts. 25c

- 319 **Royal Purple.** Deep blue, with white eye and dark stalks..... 10c pkt. 3 pkts. 25c
- 320 **Speciosa.** Dark blue, trailing; fine for vases..... 5c pkt.
- 321 **White Gem.** Pure white and very beautiful..... 10c pkt. 3 pkts. 25c
- 322 **Cardinalis Hybrids.** Splendid hybrids mixed; highly recommended. Hardy perennial; 2 feet..... 10c pkt. 3 pkts. 25c



**Lobelia, Crystal Palace Compacta.**



Marigold El Dorado.

- 331 African Orange. Large double, orange color. 3 feet.....40 oz. 5c pkt.
- 332 French Scotch Prize. A fine strain, with admirably striped double flowers. 1 foot..... 5c
- 333 French Legion of Honor. Single dwarf Marigold forming compact bushes. Flowers golden yellow and brown; blossoms in great profusion..... 5c

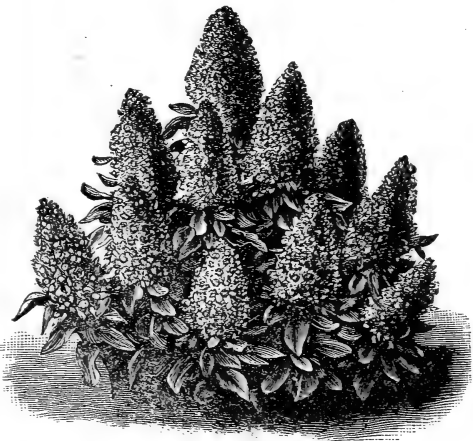
**MARVEL OF PERU.** (Four O'clock.) The well-known Four-o'clocks. A handsome free-flowering garden favorite; half-hardy perennial; blooming the first season from seed.

- 334 Finest Mixed. Beautiful colors. 2 feet.....oz. 15c.; 5c pkt.

**MATRICARIA.** (Feverfew.) Free-flowering hardy plants; a fine bedding plant, or for pot culture, blooms until frost; hardy annuals, 1 ft.

- 335 Grandiflora FI. PI. Handsome large white double flowers.....5c pkt.

**MAURANDIA.** Beautiful rapid, slender growing climbers, blooming profusely until late in the autumn; admirably adapted for hanging baskets, vases and trellis work; also fine for the conservatory or greenhouse; if desired for the house take up before the approach of frost. A half-hardy perennial, flowering the first season if sown early.



Mignonette Mchet.

**MIMOSA.** (Sensitive Plant.) Curious and interesting plants, with pinkish-white flowers, well-known for the extreme irritability of its leaves, which close and droop at the lightest touch. Half-hardy annual. 1 1/2 feet.

- 344 Pudica. Sensitive plant.....5c pkt.

**MIMULUS.** (Monkey Flower.) Handsome, profuse flowering plants, with brilliant colored flowers. Fine for conservatory or house plants. Requires a rich, moist, shady situation, blooming the first year from seed if sown early. Half-hardy perennial.

- 345 Moschatus. (Musk Plant.) Yellow, very fragrant, 1 1/2 ft.....5c pkt.
- 346 Tigrinus Grandiflorus. Beautiful, large flowered, tigered and spotted varieties, 10c pkt. 3 pkt. 25c

**MOMORDICA.** Very curious trailing vines with ornamental foliage, fruit golden yellow, warted, and when ripe opens, showing the seeds and its brilliant carmine interior; fine for rock work, stumps, etc. Half-hardy annual. 10 feet.

- 347 Balsamina. (Balsam Apple).....5c pkt.
- 348 Charantia. (Balsam Pear).....5c pkt.

**MOON FLOWER.**—(See Ipomea.)  
**MORNING GLORY.**—(See Convolvulus.)  
**MOURNING BRIDE.**—(See Scabiosa.)

**LUPINS.** (Sun Dials.) A splendid genus of handsome and ornamental garden plants with long, graceful flower spikes of rich and varied colors.

- 323 Annual Varieties. Mixed colors. 3 feet.....5c pkt.
- 324 Arboreus Snow Queen. Hardy perennial of bushy growth, 4 feet high, bearing elegant racemes of white flowers. 10c pkt.; 3 pkts. 25c
- 325 Perennial Varieties. Mixed colors. 3 to 4 feet.....5c pkt.

**LYCHNIS.** Handsome plants of easy culture; for massing in beds and borders, blooming the first year if sown early; hardy perennials.

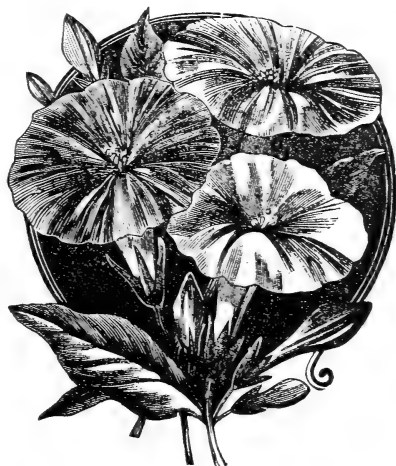
- 326 Chalcedonica. The scarlet Lychnis, an old garden favorite, very hardy. 3 to 4 feet.....5c pkt.
- 327 Haageana Hybrids. Mixed Colors. Dwarf bushy habit, bearing flowers an inch or more across in continuous succession until frost. 1 foot.....5c pkt.

**LYTHRUM.** Vigorous perennial, with spikes of bright rose-colored flowers through summer and autumn, useful for cutting. 2 feet

- 328 Roseum Superbum.....5c pkt.

**MARIGOLD.** A well-known half-hardy annual of easy culture, with rich and beautiful varied colored flowers. The African is the tallest and most striking in large beds, while the French are admirably adapted for small beds, or a foreground to the taller plants.

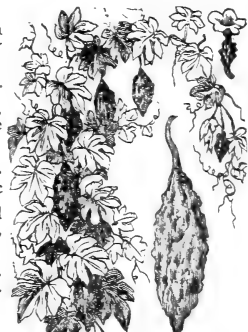
- 329 African El Dorado. Flowers very large, imbricated and extremely double; colors all shades of yellow. 3 feet, 40 cts. oz. 5c pkt.
- 330 African Lemon. Large double, lemon color. 3 feet. 40 cts. oz. 5c pkt.



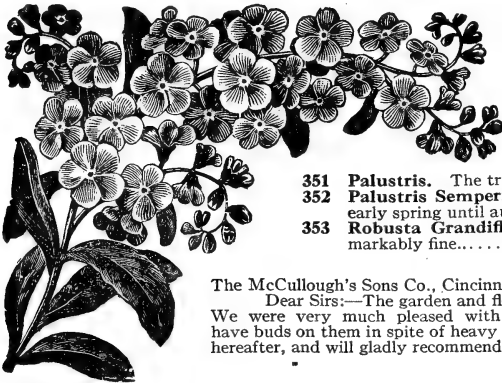
Marvel of Peru.

**MIGNONETTE.** (Reseda Odorata.) A well known hardy annual, producing dense semi-globular heads of fragrant flowers, born on spikes, from three to six inches long. If the plants are thinned out they will grow stronger and produce larger spikes of flowers. Fine for pot or garden culture, and can be had the whole year round by sowing at intervals. Annual. Oz. Pkt.

- 338 Grandiflora. Large-flowering, fragrant.....15 5c
- 339 Allen's Defiance. One of the finest sorts; enormous spikes, with individual florets of immense size; very fragrant; excellent for forcing.....75 10c
- 340 Gabriele. Hardy and vigorous growth, with strong large red spikes, of delicious fragrance..... 5c
- 341 Mchet. Dwarf pyramidal growth, with very large thick spikes, deliciously fragrant; one of the best for forcing. 75 10c
- 342 Mchet. Golden. Thick massive spikes of golden yellow fragrant flowers..... 10c
- 343 Miles Spiral. Dwarf branching habit, with long spikes fragrant; excellent for market purposes.....25 5c



Momordica Charantia.



Myosotis.

**MYOSOTIS.** (Forget-Me-Not.) One of the most popular and charming little plants, with small white and blue star-like flowers in profusion. Bloom the first year from seed, if sown early. Succeed best in a moist and shady situation. Half-hardy perennial.

**349 Alpestris Victoria.** Of bushy habit, bearing large bright azure-blue flowers; very fine. . . 10c pkt.; 3 pkts. 25

**350 Disitiflora.** Compact habit, profuse bloomer; exquisite blue; an attractive spring beddingplant. 6 inches. 10c pkt.

**351 Palustris.** The true Forget-Me-Not; beautiful blue flowers; 6 inches. . . 10c pkt.; 3 pkts. 25c

**352 Palustris Semperflorens.** A charming dwarf Forget-Me-Not continuing in bloom from early spring until autumn, blue 8 inches. . . . . 10c pkt.; 3 pkts. 25c

**353 Robusta Grandiflora.** Large-flowering, pyramidal habit, centre flowers are double, remarkably fine. . . . . 10c pkt.; 3 pkts. 25c

The McCullough's Sons Co., Cincinnati, Ohio.

Lowell, W. Va.

Dear Sirs:—The garden and flower seeds received from you this spring were fine and all grew nicely. We were very much pleased with them, and also our roses. They were the finest we ever had and all still have buds on them in spite of heavy frosts. We will always give you an order for garden seeds and flowers hereafter, and will gladly recommend your house to all our friends

Respectfully,

BERTHA MAE SPOTTS.

**NASTURTIUMS,**

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well drained sunny position, and from within a few weeks from the time they are sown until hard frost there is an endless profusion of their gorgeous blossoms.

**NASTURTIUM GOLDEN FOLIAGE.** A striking and most desirable type for bedding and potting. The contrast between the clear golden yellow foliage and flowers are remarkable.

**354 Dwarf Golden Blotched.** Flower mottled crimson on white and primrose ground. . . . . 10c pkt.; 25c oz. . . . .

**355 Dwarf Golden Midnight.** Flower darkest maroon, nearly black 10c pkt.; 25c oz.

**356 Dwarf Golden Rose.** Flower bright rose, a splendid color. . . . . 10c pkt.; 25c oz.

**357 Dwarf Golden Mixed.** Finest Mixed. All colors. . . . . 5c pkt.; 20c oz.

**NASTURTIUM IVY LEAVED.** A new class with thick green lobed leaves resembling those of the English Ivy. The flowers are of a delicate fringed formation and are borne in great abundance throughout the season.

**358 Dwarf Ivy Leaved Lady Bird.** Flowers yellow, blotched crimson. . . . . 5c pkt.; 20c oz.

**359 Dwarf Ivy Leaved Othello.** Flowers deepest maroon. . . . . 5c pkt.; 20c oz..

**360 Dwarf Ivy Leaved Mixed.** Finest mixed. All colors. . . . . 5c pkt.; 20c oz.

**361 Tall Ivy Leaved Flamingo.** Flower orange scarlet, upper petals marked with brown lines. . . . . 5c pkt.; 20c oz.

**362 Tall Ivy Leaved Golden Gem.** Rich golden yellow self colored flowers. . . . . 5c pkt.; 20c oz.

**363 Tall Ivy Leaved Lady Bird.** Flowers yellow blotched crimson 5c pkt.; 20c oz.

**364 Tall Ivy Leaved Mixed.** Finest mixed. All colors. . . . . 5c pkt.; 20c oz.

**NASTURTIUM VARIGATED LEAVED.** The foliage is strikingly variegated rendering the plants very ornamental even when not in flower, and when in bloom the effect is doubly enhanced. They are superb for garden culture and also make lovely pot plants. The Tall or Climbing varieties may be trained to a trellis arch or stake. The Dwarf varieties form bushy plants 1 ft. high.

**365 Dwarf Variegated Lady Bird.** Flowers yellow, blotched crimson. . . . . 10c pkt.; 25c oz.

**366 Dwarf Variegated Orange.** Flowers deep orange, extra fine. . . . . 10c pkt.; 25c oz.

**367 Dwarf Variegated Queen.** Flowers scarlet maroon, free-flowering. . . . . 5c pkt.; 20c oz.

**368 Dwarf Variegated Mixed.** Finest mixed. All colors. . . . . 5c pkt.; 20c oz.

**369 Tall Variegated Croesus.** Flowers primrose striped with velvet crimson. . . . . 5c pkt.; 20c oz.

**370 Tall Variegated Queen.** Flowers scarlet maroon, free-flowering. . . . . 5c pkt.; 20c oz.

**371 Tall Variegated Mixed.** Finest mixed. All colors. . . . . 5c pkt.; 20c oz.

**NOVELTY COLLECTION A NASTURTIUMS.** 1 Packet each. Golden Foliage Mixed—Dwarf Variegated Foliage—Tall Variegated Foliage—Dwarf Ivy Leaved—Tall Ivy Leaved for 15 cents.

**NOVELTY COLLECTION B NASTURTIUMS.** 1 Oz. each of the above 5 varieties for 50 cents.

**NASTURTIUM.—Dwarf or Tom Thumb Varieties.**

The improved varieties of the Dwarf Nasturtium are among the most popular and beautiful of our garden plants. Their neat, compact growth, rich colored flowers and free-blooming and long-lasting qualities, together with their adaptability to almost any soil or situation, make them unsurpassed for garden decoration. In our mixtures, which we make from named varieties, will be found a great assortment of most beautiful colors, and a trial of them is sure to give the greatest satisfaction. Hardy annual. 1 ft.

		Oz. Pkt.
372	Aurora. Chrome-yellow, spotted and striped with deep crimson. . . . .	15c 5c
373	Beauty. Yellow-striped red. . . . .	15c 5c
374	Chameleon. This interesting variety produces flowers of different colors on the same plant. The contrast produced by the numerous blooms, each so conspicuously different is charming. . . . .	15c 5c
375	Crystal Palace Gem. Sulphur spotted maroon. . . . .	15c 5c
376	Empress of India. Splendid variety, brilliant crimson with dark foliage. . . . .	15c 5c
377	Golden King. Brilliant yellow. . . . .	15c 5c
378	King of Tom Thumbs. Intense deep scarlet flowers, dark foliage. . . . .	15c 5c
379	King Theodore. Dark maroon, bluish-green foliage. One of the best. . . . .	15c 5c
380	Lady Bird. Rich golden yellow, barred with bright ruby crimson. . . . .	15c 5c

		Oz. Pkt.
381	Luteum. Fine yellow. . . . .	15c 5c
382	Pearl. Creamy white. . . . .	15c 5c
383	Prince Henry. Golden yellow, marbled and spotted with brilliant scarlet. . . . .	15c 5c
384	Rose. Light rose splendid color. . . . .	15c 5c
385	Ruby King. Brilliant crimson rose. . . . .	15c 5c
386	Spotted King. Orange spotted crimson. . . . .	15c 5c
387	Vesuvius. Brilliant Salmon pink. . . . .	15c 5c
388	McCullough's Premier Mixed. A mixture from finest named varieties. . . lb., \$1.25; ¼ lb., 40c. 15c 5c	
389	Fine Mixed. All colors. . . lb., 80c; ¼ lb., 25c. 10c	

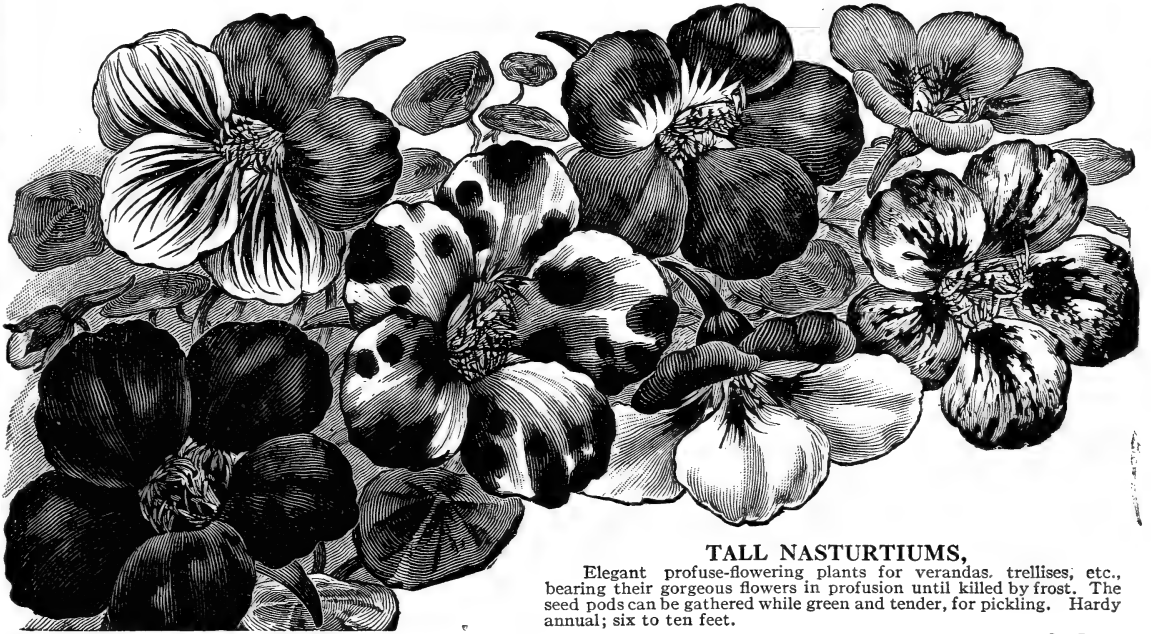
**PREMIER COLLECTIONS.**

- C. Dwarf Nasturtium, 12 varieties, our choice 1 pkt., each 35c
- D. Dwarf Nasturtium, 12 varieties, our choice 1 oz. each \$1.00



Nasturtium—Golden Foliage.





**TALL NASTURTIUMS,**

Elegant profuse-flowering plants for verandas, trellises; etc., bearing their gorgeous flowers in profusion until killed by frost. The seed pods can be gathered while green and tender, for pickling. Hardy annual; six to ten feet.

	Oz. Pkt.		Oz. Pkt.
390 <b>Chameleon.</b> This interesting variety produces flowers of different colors on the same plant. The contrast produced by the numerous blooms, each so conspicuously different is charming.....	15c 5c	398 <b>Rose.</b> A fine shade, very attractive.....	15c 5c
391 <b>Crimson.</b> Deep rich color.....	15c 5c	399 <b>Scarlet.</b> Brilliant scarlet, fine.....	15c 5c
392 <b>Heinemanni.</b> Chocolate color.....	15c 5c	400 <b>Spotted.</b> Scarlet, spotted.....	15c 5c
393 <b>King Theodore.</b> Rich dark maroon, dark leaves.....	15c 5c	401 <b>Vesuvius.</b> Brilliant salmon rose, dark leaves; extra large flowers.....	15c 5c
394 <b>Luteum.</b> Fine yellow.....	15c 5c	402 <b>McCullough's Premier Mixed.</b> A mixture from finest named varieties.... lb. \$1.25, ¼ lb. 40c, 15c	5c
395 <b>Orange.</b> Orange red, fine color.....	15c 5c	403 <b>Fine Mixed.</b> All colors... lb. 80c, ¼ lb. 25c, 10c	
396 <b>Pearl.</b> Creamy white.....	15c 5c	<b>PREMIER COLLECTIONS.</b>	
397 <b>Prince Henry.</b> Light yellow, marbled and striped with bright scarlet.....	15c 5c	E. <b>Tall Nasturtium, 12 varieties</b> .....	1 pkt. of each 35c
		F. <b>Tall Nasturtium, 12 varieties</b> .....	1 oz. of each \$1.00

**LOBB'S NASTURTIUMS.**

They are as easily grown as the Tall Nasturtiums which they far surpass in brilliancy of their flowers, in height, rapid growth and freedom of bloom. Also very desirable for Winter blooming. Hardy annual; 6 to 10 feet.

404 <b>Asa Gray.</b> The lightest color yet obtained; sulphur yellow, very delicate.....	20c 5c
405 <b>Geant des Batailles.</b> Sulphur spotted red.....	20c 5c
406 <b>Lucifer.</b> Very dark scarlet, splendid.....	20c 5c
407 <b>Margaret.</b> Light yellow, with blood red spots and spurs.....	20c 5c
408 <b>Napoleon III.</b> Golden yellow, spotted with brown.....	20c 5c
409 <b>Roi-des-Noirs.</b> Black brown.....	20c 5c
410 <b>McCullough's Premier Mixed</b> 40c ¼ lb.,	15c 5c

**PREMIER COLLECTIONS.**

- G. **Lobbianum Nasturtium, 6 varieties.** 1 pkt. of each 20c
- H. **Lobbianum Nasturtium, 6 varieties.** 1 oz. of each 75c
- 411 **Nasturtium, Madam Gunther's Hybrids.** A new climbing strain. Contains many novel colors such as odd shades of salmon, pink, rose, red, yellow, etc., strong growers and free flowering. 15c oz, 5c pkt

**FLOWER SEED BY WEIGHT.**

We carry a large stock of flower seeds and can furnish any quantity desired of any sort. Send us your list for estimate.

**NICOTIANA.** Ornamental plants very effective both in foliage and flower, the flowering sorts continue in bloom throughout the season and produce their fragrant tubular-shaped flowers in great profusion: excellent for cutting. Hardy annual.

- 412 **Affinis.** Large pure white flowers of delicious fragrance. If taken up in the fall, cut back and potted they will bloom all winter..... 5c pkt.
- 413 **Affinis Hybrids.** These magnificent Hybrids have large flowers in many beautiful colors and brilliant shades, fragrant. 10c pkt.; 3 pkts. 25c
- 414 **Sanderae Hybrids.** A showy and profuse flowering half-hardy annual, giving a continuous display of brilliant flowers through summer and autumn. The plant is of branching bushy habit 2 to 3 feet high and carry the flowers in clusters the whole being literally ablaze with them. The flowers measure from 1½ to 2 inches across and remain open all day. Many colors mixed..... 10c pkt.; 3 pkts. 25c

**OXALIS.** A splendid class of plants, with brilliant-colored flowers and dark foliage, suitable for borders, green-house decoration, rock-work or baskets. Half-hardy perennial.

- 415 **Finest Mixed**..... 5c pkt.



Nicotiana Sanderae.

**30 Cts.**

**WORTH OF SEEDS EXTRA** will be allowed on each **ONE DOLLAR** sent for seeds in **PACKETS**. Thus any one sending **\$1.00.** to us can select seeds in **PACKETS** to the value of **\$1.30;** for **\$2.00** seeds in **PACKETS** to the value of **\$2.65** for **\$3.00** seeds in **PACKETS** to the value of **\$4.00.**



**PANSY.** This attractive plant is too well-known to require any description, as it is a favorite with all; the seed can be sown from September to March. The best plants are obtained from seed sown in the autumn, and protected during the winter; these flower early in spring. The plants from spring sowing should be planted in a shady border; they produce fine large flowers in the autumn. Pansies require fresh soil, enriched with decomposed manure. Our seeds are from the most noted European growers. The choice strains being unsurpassed for size and form of flower, beauty of markings, brilliancy and variety of colors and shades. Hardy perennial. Six inches.

- 416 **Bugnot's Superb Blotched.** A French strain of extra large size, choicest colors, and with beautiful broad blotches and delicate pencillings. Finest mixed 20c pkt.; 3 pkts. 50c
- 417 **Cassier's Giant.** A very showy and rich strain saved from very large and beautifully blotched model flowers 15c pkt.; 2 pkts. 25c
- 418 **Masterpiece.** The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled, and contain the richest colors. Each petal is distinctly marked with a large dark blotch and most of the flowers are margined with a light, white or yellow edge. . . . 15c pkt.
- 419 **Mme Perret.** Flowers of largest size, in great diversity of color; especially rich in red shades. Extra fine. . . . 20c pkt.; 3 pkts. 50c
- 420 **Pretiosa Giant.** A distinct variety of the Giant Five Spotted Pansies. Each petal is marked with a very large blotch of deep violet color, these blotches are surrounded by a brilliant crimson rose ground color, and the ground color is margined with a pure white edge. A very effective and bright variety. 20c pkt.; 3 pkts. 50c
- 421 **McCullough's Premier.** This strain is saved from the finest flowers, from the best growers of Pansies. The plants are compact and of robust growth, and will give an abundance of very large flowers of unsurpassed brilliancy of color and distinct markings. Florists and amateurs desiring charming "show" flowers should not neglect this strain, as it is the result of many years careful selection and hybridization, and embraces all the attractive features that tend to make the Pansy the people's flower. ¼ oz. \$2.00, 25c pkt.
- 422 **McCullough's Special Mixture.** A superior mixture, selected from choice, large flowering strains of English, French and German growers. oz. \$5.00, 15c pkt.



Fancy Bugnot's Exhibition.

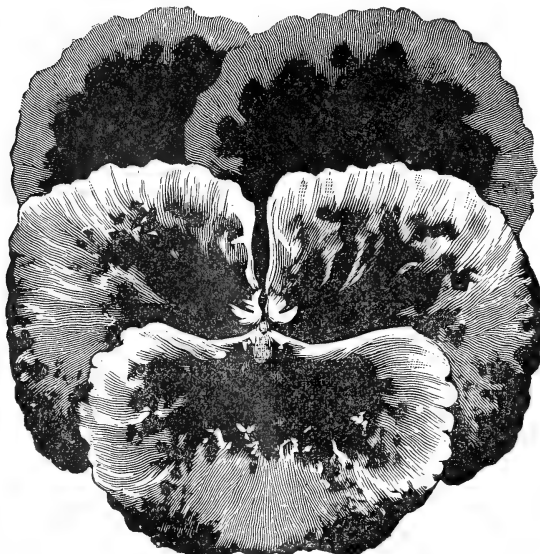
**GIANT FLOWERING VARIETIES.** A desirable and very attractive strain. The plants are of compact, robust and free-flowering habit. The flowers of immense size, measuring four inches in diameter, of good substance and unsurpassable in beauty and variety of coloring.

- 423 **Adonis.** Beautiful light blue, marked with a yellowish white face and large dark blotches. . . . 10c pkt.; 3 pkts. 25c
- 424 **Andromeda.** A large flower of dainty coloring, soft apple blossom tinted rosy-lilac, darker veinings. . . . 15c pkt.; 2 pkts. 25c
- 425 **Auriculaeflora.** Large flowers of rare shades. . . . 10c pkt.; 3 pkts. 25c
- 426 **Bridesmaid.** White shining Rose, beautifully blotched. . . . 10c pkt.; 3 pkts. 25c
- 427 **Canary Bird.** Giant five spotted variety. Bright golden yellow, each petal marked with a large dark blotch. Extra fine. . . . 15c pkt.; 2 pkts. 25c
- 428 **Candidissima.** Satiny white, centre slightly tinged with yellow. . . . 10c pkt.; 3 pkts. 25c
- 429 **Emperor William.** Ultramarine blue, with distinct dark blue eye. . . . 10c pkt.; 3 pkts. 25c
- 430 **Golden Yellow.** Bright yellow, Extra fine. . . . 10c pkt.; 3 pkts. 25c
- 431 **King of the Blacks.** Immense jet-black flowers. . . . 10c pkt.; 3 pkts. 25c
- 432 **Lord Beaconsfield.** Purple violet, shading to white on the upper petals. . . . 10c pkt.; 3 pkts. 25c
- 433 **Peacock.** Rich blue, margined with a white edge, and marked in the face with rosy carmine tints. . . . 10c pkt.; 3 pkts. 25c
- 434 **Ruby.** Brilliant shades of red. . . . 10c pkt.; 3 pkts. 25c
- 435 **Finest Mixed.** All colors, extra fine. . . . oz. \$2.00; 10c pkt.; 3 pkts. 25c

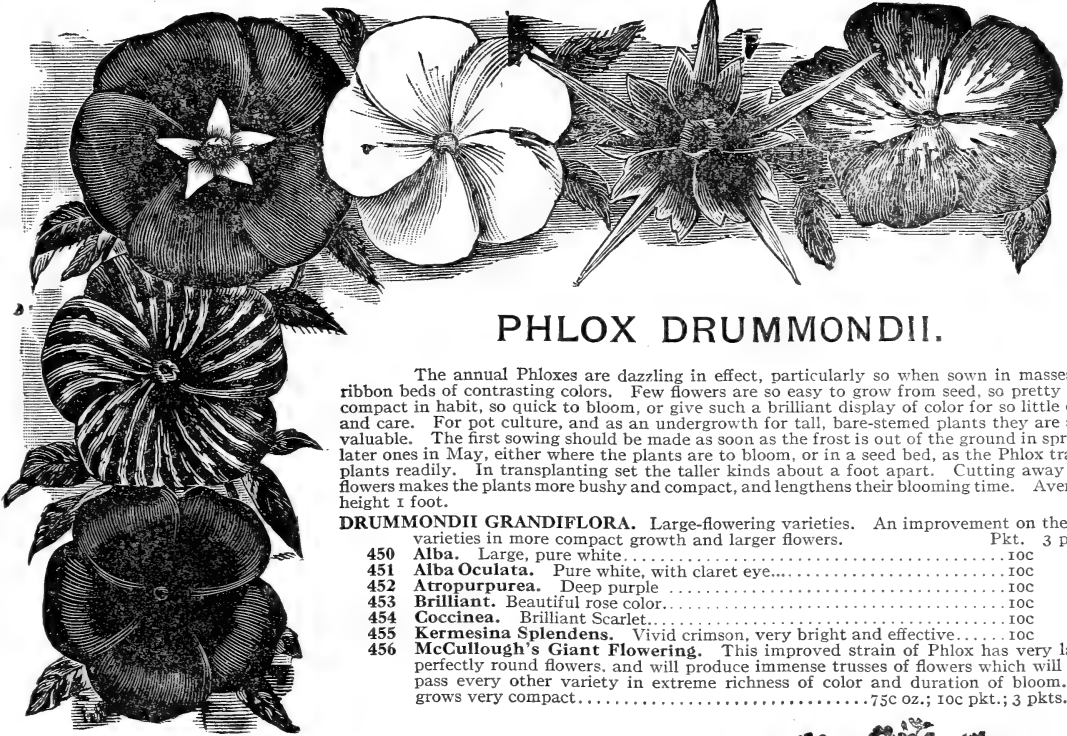
- No. 1. **PREMIER COLLECTION. Giant Flowering Pansies,** our selection, six varieties, one pkt. of each. . . . 45c
- No. 2. **PREMIER COLLECTION. Giant Flowering Pansies,** twelve varieties, one pkt. of each. . . . 80c

**PANSIES IN SEPARATE COLORS.**

- 436 **Cardinal.** Brownish-scarlet, lower petals marked with a large dark blotch. . . . I 25 5c
- 437 **Diana.** Cream colored, beautiful. . . . I 25 5c
- 438 **Emperor Frederick.** Dark red, bordered orange scarlet very fine. . . . I 25 5c
- 439 **Emperor William.** Brilliant ultramarine blue, with violet eye. . . . I 25 5c
- 440 **King of the Blacks.** Rich glossy black; splendid for bedding. . . . I 25 5c
- 441 **Lord Beaconsfield.** Purple violet, shading to white on the upper petals. . . . I 25 5c
- 442 **President Carnot.** White petals marked with violet blotch. Extra fine. . . . 2 00 10c
- 443 **Quadricolor.** Reddish steel blue with a white and pink edge, marked with a golden and pink face. . . . I 25 5c
- 444 **Snowflake.** Large satin white, centre slightly tinged with yellow. . . . I 25 5c
- 445 **Striped.** Brilliant and exquisite tints; the blooms handsomely striped. . . . I 25 5c
- 446 **Victoria.** Deep wine red, very fine. . . . I 25 5c
- 447 **Yellow.** Golden yellow with black centre. . . . I 25 5c
- 448 **Superior Quality Mixed.** A splendid strain of large-flowering sorts. . . . I 50 10c
- 449 **Very Fine Mixture.** Fine, showy flowers. . . . 75 5c
- No. 3. **Premier Collection Pansies.** Our selection 6 varieties, one pkt. of each. . . . 30c
- No. 4. **Premier Collection Pansies.** Our selection 12 varieties, one pkt. of each. . . . 50c



Giant Flowering.



**PHLOX DRUMMONDII.**

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. For pot culture, and as an undergrowth for tall, bare-stemmed plants they are also valuable. The first sowing should be made as soon as the frost is out of the ground in spring; later ones in May, either where the plants are to bloom, or in a seed bed, as the Phlox transplants readily. In transplanting set the taller kinds about a foot apart. Cutting away the flowers makes the plants more bushy and compact, and lengthens their blooming time. Average height 1 foot.

- DRUMMONDII GRANDIFLORA.** Large-flowering varieties. An improvement on the old varieties in more compact growth and larger flowers. Pkt. 3 pkts.
- 450 Alba. Large, pure white.....10c 25c
  - 451 Alba Oculata. Pure white, with claret eye.....10c 25c
  - 452 Atropurea. Deep purple.....10c 25c
  - 453 Brilliant. Beautiful rose color.....10c 25c
  - 454 Coccinea. Brilliant Scarlet.....10c 25c
  - 455 Kermesina Splendens. Vivid crimson, very bright and effective.....10c 25c
  - 456 McCullough's Giant Flowering. This improved strain of Phlox has very large perfectly round flowers, and will produce immense trusses of flowers which will surpass every other variety in extreme richness of color and duration of bloom. It grows very compact.....75c oz.; 10c pkt.; 3 pkts. 25c

**Premier Collection Phlox Drummondii Grandiflora—six varieties.**

1 pkt. of each 30c

- 457 Drummondii. They produce trusses of brilliant flowers of numberless hues. Finest mixed.....50c oz.; 5c pkt

**PHLOX DRUMMONDII NANA.** Strain of dwarf compact habit, and makes desirable pot plants, also for ribbon lines and massing; 6 inches in height.

- 458 Fireball. Brilliant scarlet.....10c pkt.; 3 pkts. 25c
- 459 Snowball. Pure white, excellent variety.....10c pkt.; 3 pkts. 25c
- 460 Finest Mixed. All colors.....10c pkt.; 3 pkts. 25c
- 461 Phlox Cuspidata (Star of Queensland) Finest Mixed. Beautiful star-shaped flowers in showy colors..\$1.00 oz.; 10c pkt.; 3 pkts. 25c
- 462 Phlox Fimbriata, Finest mixed. A fine strain, with petals beautifully fringed; distinct and fine.....\$1.00 oz.; 10c pkt.; 3 pkts. 25c



**Phlox Drummondii Nana.**

**DOUBLE PHLOX.** Especially desirable for cut flowers, lasting much better than single sorts. To produce the best results they should be grown in a light soil.

- 463 Alba. Double white; very fine for bouquets and florists use, 10c pkt.; 3 pkts. 25c
- 464 Atropurea. Double, blood red.....10c pkt.; 3 pkts. 25c
- 465 Phlox Perennial Hybrids. (Phlox Decussata.) Tall growing perfectly hardy class, with immense trusses of large and beautiful flowers, in the greatest varieties of colors. 3 ft. 10c pkt.; 3 pkts. 25c

**PETUNIA.** For out-door decorations or house culture few plants are equal to this class. They commence flowering early, and continue a mass of bloom throughout the whole season, until killed by frost; easily cultivated, requiring a rich soil and a sunny situation. Of late years the single-striped, mottled, and double varieties have been greatly improved. The seeds of the double Petunia do not possess as much vitality as those of the single, and a good deal of care must be used to get them to germinate; nor will they all come double. There are two distinct kinds of single Petunias—the Grandiflora sorts, with large flowers, and the small flowered section, which gives abundance of bloom Annuals.

**SINGLE LARGE FLOWERING SORTS.**

- 466 McCullough's Mammoth. This mixture is made by ourselves, and includes, besides the California Giants, all the colors of the large flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately veined throats in various colors, and their truly mammoth flowers. 20c pkt.; 3 pkts. 50c
- 467 Giants of California. Flowers very large, in great variety of colors and markings, with broad, deep yellow throats, veined.....15c pkt.; 2 pkts. 25c
- 468 Ruffled. Giants. Very large flowered; ruffled, fluted and fringed, striped and mottled blotched and solid, self-colors, with many color combinations quite new in Petunias.....20c pkt.; 3 pkts. 50c
- 469 Grandiflora, Finest Mixed. Superb strain from show flowers, very large and of great substance.....15c pkt.; 2 pkts. 25c



**Petunia, McCullough's Mammoth.**

PETUNIAS.—(Continued.)

SINGLE SMALL-FLOWERED VARIETIES.

		Oz.	Pkt.
470 Dwarf Inimitable.	Compact-growing variety, flowers cherry-red, striped with white.....	\$3.00	10c
471 Snowball.	A fine compact variety, producing its pure white flowers throughout the entire season. Excellent for pots or bedding	3.00	10c
472 Alba.	Pure white large flowers, desirable for cemetery beds or where large masses of white are wanted.....	1 25	5c
473 Kermesina Splendens.	Rich crimson, fine.....	1 25	5c
474 Howard's Star.	A beautiful free-flowering strain, color crimson maroon with a clearly-defined five-pointed star of bluish-white. For bedding, baskets, vases, etc., this is exceptionally fine.....		10c
475 Striped and Blotched.	Fine for massing.....	1 25	5c
476 Finest Mixed.	Superb strain, very rich colors.....	1 50	10c
477 Fine Mixed.	Very fine quality.....	75	5c

DOUBLE LARGE-FLOWERING SORTS.

478 McCullough's Splendid Fringed.	One of the finest strains in existence. The double flowers are very large, full, and beautifully formed, having the edges of the petals elegantly fringed.....	35c
479 Grandiflora Mixed.	Choice strains of fine colors and large flowers.....	25c



Double Hybrid Petunia.

POLYANTHUS—(See Primula.)

POPPIES.

Very showy, free-blooming and easily cultivated plants, with large brilliant-colored flowers, growing freely in any garden soil, and producing a fine effect in large clumps or mixed beds. A great advantage has been made in recent years in the development of the Poppy, which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Sow early in the spring where they are to remain, as they will not bear transplanting

DOUBLE ANNUAL POPPIES.

		Pkt.
480 American Flag.	Large double flowers, white, bordered with scarlet. 2 feet.....	oz. 25c, 5c
481 Cardinal Hybrids.	Habit erect and compact, with deeply-cut dark green foliage, which shows off the enormous double flowers. Finest mixed. 1½ foot.....	oz. 25c 5c
482 Carnation-Flowered.	Large showy fringed flowers; mixed colors.....	oz. 20c, 5c
483 Fairy Blush.	Flowers large, white, elegantly fringed and tipped with rose.....	oz. 25c, 5c
484 Golden Gate.	Free-flowering variety of semi-double and double flowers in the greatest variety of color.....	5c



Shirley Poppy.

485 Irresistible.	A splendid giant Poppy, resembling a paeony. Color light red, shaded lighter at edge of petals.....	5c
486 Mikado.	The flowers are pure white at back, the fringed edges brilliant scarlet.....	oz. 25c, 5c
487 Paeony-Flowered.	Large showy globular flowers; finest mixed.....	oz. 20c, 5c
488 Paeony-Flowered Scarlet.	Fine large scarlet flowers.....	oz. 20c, 5c
489 White Swan.	Immense flowers, beautifully fringed; pure white.....	oz. 25c, 5c
490 Double mixed.	All colors, mixed.....	oz. 20c, 5c

SINGLE ANNUAL VARIETIES.

491 Admiral.	Large pure white flowers, with a broad band of brilliant scarlet around the top.....	oz. 50c, 5c
492 Danebrog.	Large bright scarlet, with a white cross in the center.....	oz. 20c, 5c
493 Maid of the Mist.	A magnificent single white poppy. The flowers measure from 7 to 9 inches across and are deeply fringed.....	5c
494 Peacock.	Large scarlet, with a glossy black zone near the center.....	oz. 25c, 5c
495 Shirley.	A beautiful strain; the flowers are all gracefully elegant, and the colors remarkably bright, pure and varied.....	oz. 50c, 5c
496 The Bride.	The flowers are of extra large size, pure white, making a fine appearance in beds or groups.....	oz. 25c, 5c
497 Tulip.	A magnificent variety. The two outer petals form a saucer, surrounding two erect petals, giving the very handsome appearance of scarlet Tulips.....	oz. 60c, 5c
498 Umbrosum.	Richest vermilion, with a deep shining black spot on each petal.....	oz. 25c, 5c
499 Single Mixed.	All colors.....	oz. 20c, 5c

HARDY PERENNIAL VARIETIES,

500 Iceland.	(Papaver Nudicaule.) One of the most effective and beautiful. They are perfectly hardy and produce an endless profusion of flowers which are useful for cutting; graceful habit, with pretty fern-like foliage; finest mixed.....	5c Pkt.
501 Oriental.	Very large, scarlet, with blotch on each petal; magnificent, border plant. 3 feet.....	5c Pkt.
502 Oriental Hybrids.	Beautiful hybrids of the Oriental Poppy, producing flowers of immense size, 6 inches and over in diameter and of such colors as salmon, pink, cherry, etc.....	10c Pkt.; 3 pkts. 25c



Tulip Poppy.

**PORTULACA.** One of our finest hardy annual plants, of easy culture, thriving best in a rich, light loam or sandy soil, and luxuriating in an exposed sunny situation. The flowers are of the richest shades of color, and produced throughout the summer in great profusion. Fine for massing in beds, edgings or rock-work. 6 inches.

- 503 **Single Finest Mixed.** Large flowering sorts in splendid colors.....oz. 40c; pkt. 5c
- 504 **Double Finest Mixed.** Superb large double flowers in great variety.....¼ oz. 75c; pkt. 10c



**Primula Chinensis Fimbriata.**

**PRIMULA.** This charming and beautiful flowering plant is indispensable for winter or spring decorations in the home or conservatory. It is one of our most important of winter blooming pot plants. The collections here offered contain the finest varieties grown; a cool place suits them best. The seed should be sown in light soil, but for final potting a richer soil is necessary, consisting of two parts loam to one each of well decayed manure and leaf-mold. They require to be well ventilated, well watered and slightly shaded throughout the summer.

**PRIMULA CHINENSIS FIMBRIATA.**

- 505 **Alba Magnifica.** The finest pure white, with bright yellow eye, beautifully fringed.....20c
- 506 **Chiswick Red.** Large brilliant scarlet, finely fringed.....20c
- 507 **Coerulea.** Fine blue; excellent.....20c
- 508 **Delicata.** Delicate rose; finely fringed.....20c
- 509 **Choicest Mixed.** This mixture contains nothing but the finest sorts.....20c
- 510 **Primula Forbesi.** (Baby Primrose.) Very free-flowering beautiful rosy lilac flowers. Fine for pots and bouquets. Seedlings begin to bloom three months after being sown.....20c
- 511 **Primula Obconica Grandiflora Fimbriata.** Very large flowers, with nicely fringed and toothed petals. The flowers are produced in constant succession, ranging in color from white to rose; a beautiful pot plant.....10c pkt.; 3 pkts. 25c

512 **Primula Obconica Gigantea.** This new variety is the finest yet introduced; of strong, vigorous growth with immense heads of large individual blooms. Varies in color from pale lilac to rose.....20c pkt.; 3 pkts. 50c

**HARDY PRIMROSES.** The following varieties are delightful for early flowers under glass, or in the open air, with protection during winter. Half-hardy.

- 513 **Auricula.** Finest mixed. Extra choice; saved from a prize collection.....10c pkt.; 3 pkts. 25c
- 514 **Veris.** (Polyanthus) Splendid colors; extra fine.....10c pkt.; 3 pkts. 25c
- 515 **Vulgaris.** True Yellow English Primrose.....10c pkt.; 3 pkts. 25c

**PYRETHRUM.** Valuable hardy border plants, throwing up numerous stems about 2 feet high; remain in bloom a long time. Hardy perennial.

- 516 **Single Hybrids.** Large flowers, choicest colors, saved from named varieties. Finest mixed.....10c pkt.; 3pkts. 25c
- 517 **Aureum.** Bright yellow foliage, extensively used for ribbon and carpet bedding. ¾ft.....5c pkt

**RHODANTHE.** Half-hardy, delicate and charming plants. The flowers should be gathered before they fully expand. If allowed to grow too long they open too much, and lose their beautiful bell form. Flowers everlasting. Half-hardy annuals.

- 518 **Maculata.** Mixed; all colors.....5c pkt.

**RICINUS.** Known as "Caster Oil Plant." Highly ornamental and stately-growing plants of tropical origin, with luxuriant foliage and brilliant-colored fruit. When grown on lawns or in the garden as single specimens, they form a magnificent showy plant; height, 4 to 10 feet. Start seed in pots, in March, and transplant as soon as the ground is warm. Half hardy annuals. Pkt.

- 519 **Cambodgensis.** The main stem and leaf stalks are of shining ebony-black; the leaves are very large and richly colored, changing to different shades. 6 feet.....oz. 20c; 5c
- 520 **Gibsonii.** Dark stems and foliage. 10 feet.....oz. 15c; 5c
- 521 **Gibsonii Mirabilis.** Dwarf, branching habit, deep red foliage. 4 feet.....oz. 20c; 5c
- 522 **Philippinensis.** Large beautiful dark foliage. 10 feet.....oz. 15c; 5c
- 523 **Sanguineus.** Blood-red stalks, and clusters of red fruit. 8ft.....oz. 15c; 5c
- 524 **Zanzibariensis.** A distinct class which surpass in size and beauty all the varieties hitherto known. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. As single specimens on the lawn or in large groups they are very effective.....oz. 15c; 5c



**Ricinus Zanzibariensis.**

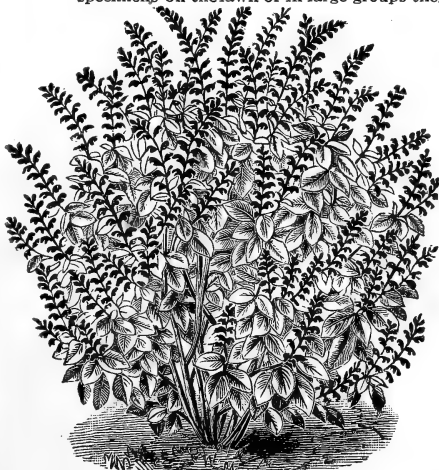
- 525 **Finest Mixed.** All varieties.oz. 15c; 5c
- Premier Collection Ricinus Six varieties.** One packet of each.....20c

**RUDEBECKIA.** (Cone Flower.) A showy class of strong, easily cultivated plants 1½ feet.

- 526 **Bicolor Superba.** An effective annual, and useful for cutting. It grows about two feet high, forming a many-branched dense bush, the flowers borne on long stems and in great profusion..10c pkt.; 3 pkts. 25c

**SALVIA.** (Flowering Sage.) One of our handsomest and most showy summer and autumn flowering plants, forming compact bushes, which are literally ablaze with brilliant flowers. Tender perennials, but bloom first season from seed. 2 to 3 feet.

- 527 **Splendens.** One of the finest summer and fall plants, with magnificent brilliant scarlet flowers. 2 feet.....¼ oz. 50c; 5c pkt.
- 528 **Splendens, Clara Bedman.** ("Bonfire.") One of the finest growing in a compact bush about two feet high by two feet in diameter. Its erect spikes of flowers of brilliant scarlet stand clear above the dark green foliage and completely cover the plant.....¼ oz. 75c; 10c pkt.
- 529 **Splendens Silver Spot.** The leaves are dark green, with cream-colored spots. The unique foliage has an extremely fresh and healthy appearance. The bright scarlet flowers are large and the plants of neat compact habit.....10c pkt.; 3 pkts. 25c
- 530 **Splendens Zurich.** Extra early flowering variety. The plants are dwarf and compact, and commence to produce their large brilliant flowers early in July and continuing to bloom until killed by frost.....15c pkt.; 2 pkts. 25c



**Salvia Splendens.**



## SWEET PEAS.

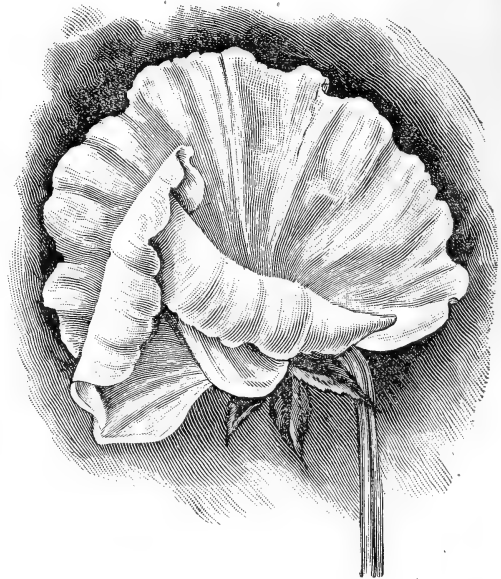
Flowering Peas are among the most useful and beautiful of all our hardy annuals. Nothing can be better for large bouquets, as the flowers are lively, and delicate, varying in color from darkest purple and including the brightest pinks; as fragrant as Mignonette.

### THE NEW METHOD OF CULTIVATING SWEET PEAS.

The principle essential for the best success is a cool deep, moist soil, and a sunny situation. The ground should be prepared deep and rich. Fall preparation, where possible, is preferable, but if done in the spring, use no green manure. Bone meal is good if old rotted manure cannot be obtained. Sow early, even before the frost is out of the ground, as Sweet Peas need the cold, moist spring ground to make the root growth. In the latitude of Cincinnati, February is not too early. In the South, sow in the fall. Sow the seed in deep furrows, the bottom of which must be at least six inches below the level of the soil; this is to guard against a summer drought. Cover the seeds only one inch, after which the furrow is still five inches deep. When the plants are two or three inches high fill in another inch or so of soil around the plants, always leaving a portion of the plant above the surface; do this at intervals until the furrow is nearly full; it should always remain a little hollow, to hold the rains, and to allow water to be applied by the bucketful in dry weather.

Mulching with old leaves, straw or hay assists in the retention of even moisture and temperature for the roots; any fresh manure or other heating material must not be used. Under such congenial conditions Sweet Peas luxuriate and bloom in continuous abundance from early summer until cut down by frost, provided the flowers are freely picked each day, and no pods are allowed to develop.

Our Sweet Peas are unsurpassed, having been selected from the finest strains. They include all the improved large-flowering varieties of recent introduction.



## NEW ORCHID FLOWERING SWEET PEAS.

The largest in size of all Sweet Peas, this distinct type is a beautiful new departure and embraces exquisite shades of enormous size, unusual substance, of waved or fluted appearance and charming blendings of harmonious colors, these new seedlings can only be appropriately described as Gigantic "Orchid-Flowered."

The stems are extra long and stiffly erect, having uniformly three to four flowers facing one way. The standards measure two inches across, without flattening out the folds.

In all flowers of the true type, both standard and wings are beautifully frilled or fluted, which is a most attractive feature. The flowers, with their large size, charming coloring and long stems, are of good substance, being exceptionally lasting and fragrant when gathered for bouquets.

- |     |  |                                       |
|-----|--|---------------------------------------|
| 531 | <b>Asta Ohn Spencer.</b> Flowers of large size, lavender suffused with mauve; standard and wings waved and fluted. The stems are long and sturdy and each stem uniformly bears four flowers.   | 10c pkt.; 20c ½ oz.; 35c oz.          |
| 532 | <b>Beatrice Spencer.</b> Standard white, tinted with soft pink and buff, while each wing has a blotch of brighter pink near the base. One of the most delicate and dainty varieties.   | 10c pkt.; 20c ½ oz.; 35c oz.          |
| 533 | <b>Flora Norton Spencer.</b> Bright blue with a little tint of purple. Flowers very large, with wavy standard and wings. The flowers are produced three or four to a spray; stem thick and long.   | 10c pkt.; 35c ½ oz.; 60c oz.          |
| 534 | <b>Florence Morse Spencer.</b> Delicate blush, with pink margin, very large open wavy form, with long stems, and four blossoms to the stem.  | 5c pkt.; 20c oz.                      |
| 535 | <b>King Edward Spencer.</b> The largest and best Scarlet Sweet Pea. The large flowers are waved and crinkled; Standard and Wings deep rich carmine scarlet with long stems, and four blossoms to the stem.   | 10c pkt.; 20c ½ oz.; 30c oz.          |
| 536 | <b>Lovely Spencer.</b> Bright pink at the base of both standard and wings, shading to a softer pink and becoming almost white at the edges.  | 10c pkt.; 35c ½ oz.; 60c oz.          |
| 537 | <b>Marie Correll.</b> The wings are a pure rich rose crimson, while the standard shows a tint of cherry red. The standard is large round and wavy. The wings are full and inclined to remain boldly upright instead of drooping. The long strong stems usually bear four flowers each, plant of strong growth and very free flowering. | 15c pkt.; 60c ½ oz.; \$1.00 oz.       |
| 538 | <b>Primrose Spencer.</b> Primrose or creamy yellow; standard and wings waved. The best of this color in size of flower; length of stem and vigor of growth.  | 5c pkt.; 20c oz.                      |
| 539 | <b>St. George.</b> The bold expanded standard is a rich pure orange color, while the large wings are a distinct orange carmine. The best of this shade; long strong stems.   | 10c pkt.; 35c ½ oz.; 60c oz.          |
| 540 | <b>Senator Spencer.</b> The color is a varying combination of deep claret and chocolate, striped and flaked on a ground of light heliotrope, standard and wings are marked the same. Long stems with four blossoms on each stem.   | 15c pkt.; 40c ½ oz.; 75c oz.          |
| 541 | <b>White Spencer.</b> The finest White Sweet Pea with large fluted and wavy petals, long stout stems. The flowers are borne three and four to the stem.  | 5c pkt.; 20c oz.                      |
| 542 | <b>W. T. Hutchins.</b> The fully expanded flower, light apricot overlaid with blush pink. The standard and wings are wavy ruffled and crinkled, flowers of the largest size on long strong stems, free flowering.  | 15c pkt.; 40c ½ oz.; 75c oz.          |
| 543 | <b>Spencer Seedlings.</b> The flowers are of large size, beautifully frilled and waved, borne on long stems. A splendid mixture of new seedlings and named varieties of Countess Spencer type.   | 5c pkt.; 20c oz. 60c ½ lb. \$2.00 lb. |
|     | <b>PREMIER COLLECTION: Orchid Flowered Sweet Peas.</b> Six varieties our selection.  | 35 cts.                               |
|     | <b>PREMIER COLLECTION: Orchid Flowered Sweet Peas.</b> Twelve varieties our selection.   | 70 cts.                               |

## McCullough's Select List Large-Flowering Named Varieties.

The Following Named Varieties, Sweet Peas 5c pkt.; 10c oz.; 25c ¼ lb.; 75c lb.

- |     |   |  |
|-----|---|--|
| 544 | <b>America.</b> Crimson scarlet, striped on white. Large size open form; brightest striped variety.   |  |
| 545 | <b>Aurora.</b> Standard and wings white, shaded and striped with orange salmon.   |  |
| 546 | <b>Black Knight.</b> Pure maroon, self colored, large size open form. The standard is round and glossy on back.   |  |
| 547 | <b>Blanche Burpee.</b> Large pure white, of exquisite form.   |  |
| 548 | <b>Blanche Ferry, Extra Early.</b> Rose pink standard, with white wings; very early.  |  |
| 549 | <b>Coccinea.</b> Cerise red, self color, very bright and effective; medium size, semi-hooded form.  |  |
| 550 | <b>Countess Spencer.</b> Bright clear pink, showing a little deeper at the edges. Standard and wings are very large.  |  |
| 551 | <b>Dorothy Eckford.</b> The finest pure white; giant flower, also robust in growth and stem. The plant is short-jointed, and grows an enormous mass of bloom.                                 |  |
| 552 | <b>Earliest of all.</b> Rose pink standard, with white wings; excellent for forcing.  |  |
| 553 | <b>Earliest White.</b> (Burpee.) The earliest white in the open ground, also unequalled for forcing.  |  |
| 554 | <b>E. J. Castle.</b> Carmine Rose, with salmon shading in the standard. A large flower with a bold wavy standard.   |  |
| 555 | <b>Enchantress.</b> Bright pink shading, a little deeper at the edges. The form is open and the margins of the petals are wavy; flowers very large.   |  |
| 556 | <b>Flora Norton.</b> Pure bright self blue; quite distinct and a great acquisition.   |  |
| 557 | <b>George Herbert.</b> Bright rose, carmine, large open wavy form, standard and wings beautifully fluted.   |  |
| 558 | <b>Gladys Unwin.</b> Bright light pink, a little deeper at the edges. Very largest size, open form with wavy edges.   |  |
| 559 | <b>Golden Rose.</b> Primrose, striped and mottled with pink. Large semi-hooded form of the finest type.   |  |
| 560 | <b>Helen Pierce.</b> Pure white, veined, mottled and marbled with bright blue. The base of the petals does not show the color while the back of the standard is quite heavily colored.        |  |
| 561 | <b>Jeanie Gordon.</b> Standard bright rose shaded cream; wings creamy suffused rose.  |  |
| 562 | <b>King Edward VII.</b> A lovely intense bright crimson self with a slightly hooded, yet prominent standard. A giant flowered variety with strong stems and growth; does not burn in the sun. |  |
| 563 | <b>Lady Grisell Hamilton.</b> Beautiful pale lavender; in form it is of the most advanced giant flowering type.   |  |





## SWEET PEAS.

LARGE FLOWERING NAMED  
VARIETIES—Continued.

Named Varieties Sweet Peas 5c Pkt.; 10c oz.; 25c ¼ lb.; 75c lb.

- 566 **Lady M. Ormsby Gore.** Standard buff and primrose, wings light primrose, large size, hooded form.
  - 567 **Lord Nelson.** Standard rich dark navy blue; wings shaded purple; large flower, strong grower and profuse bloomer.
  - 568 **Lottie Eckford.** White ground, shaded and edged with light blue and mauve. Large size.
  - 569 **Lovely.** Standard and wings deep rose at base, shading to pale pink and blush at edges, large size.
  - 570 **Miss Wilmott.** Standard orange pink, wings rose tinted orange, flowers very large; stems long and plant very vigorous.
  - 571 **Mrs. Alfred Watkins.** A superb pale pink, of large size with a bold wavy standard. Large, open and wavy form.
  - 572 **Mrs. E. Kenyon.** A beautiful primrose color; a bold giant flower; and a most desirable variety.
  - 573 **Mrs. Geo. Higginson, Jr.** A clear, delicate light blue, showing no tint of mauve. Fine variety for florists.
  - 574 **Mrs. Walter Wright.** Rose purple, self colored. It changes to a bluish purple as it fully matures; large size, hooded form.
  - 575 **Navy Blue.** Standard indigo; wings indigo shaded to navy blue. Large size, semi-hooded form.
  - 576 **Nora Unwin.** Pure white, very large open wavy form, free-flowering with long stem. One of the finest white varieties.
  - 577 **Othello.** Standard and wings dark maroon, showing veins of black. Large size, hooded form.
  - 578 **Phenomenal.** White, shaded and edged with lilac. Very large, hooded and the lower blossom on the stem is usually double.
  - 579 **Prima Donna.** Bright blush pink; large size and fine form; one of the best; vigorous grower.
  - 580 **Prince of Wales.** Bright rose; large flower; the prettiest of the bright red varieties.
  - 581 **Queen Alexandra.** Intense scarlet, a bold expanded flower of finest form. It is very free flowering, and the flowers are of large size with long strong stems.
  - 582 **Romolo Piazzani.** Rose purple, changing to lilac and blue when fully expanded; large size, hooded form.
  - 583 **Royal Rose.** Standard deep rose shading with pink; wings light pink; very large flower.
  - 584 **Salopian.** Rich crimson scarlet; large flowers of fine form.
  - 585 **Shasta.** Pure white, very large size; open form. The petals both standard and wings, are wavy on the edges, usually bears four blossoms to the stem.
  - 586 **Stella Morse.** Primrose yellow, tinged with blush pink; well formed graceful flowers.
  - 587 **Sybil Eckford.** Standard light salmon and buff; wings buff; large open form.
- All Named Varieties 5c pkt., 10c oz., 25c ¼ lb., 75c lb.
- 588 **McCullough's Premier Mixed.** This mixture contains all the best-named large-flowering varieties and novelties, and is undoubtedly the finest and most complete mixture ever offered being put up by ourselves from named varieties only, in the proper proportion of colors..... 5c pkt.; 10 oz. 25c ¼ lb., 75c lb.
  - 589 **Finest Mixed.** This is a mixture of many distinct named varieties.  
5c oz.; 15c ¼ lb., 50c lb.
  - 590 **Fine Mixed.** A very good mixture of over twenty varieties... 15c ¼ lb.; 40c lb.

## COLLECTION SWEET PEAS.

To induce our customers to give our Large Flowering Sweet Peas a trial, we offer the following special collections. The varieties offered are the best of the large Flowering sorts...

- |   |  |
|---|--|
| <p>No. 1. 6 pkts. Large flowering varieties.....Special price 20c</p> <p>No. 2. 12 pkts. Large flowering varieties..... " " 35c</p> | <p>No. 3. 6—1 oz. pkts. Large flowering varieties.Special price 40c</p> <p>No. 4. 12—1 oz. pkts. Large flowering varieties " " 75c</p> |
|---|--|

NOTE—As the flowers of Sweet Peas come into full bloom or fade, they should be cut off for if the pods are allowed to form, the plants will soon stop blooming.

**SALPIGLOSSIS.** One of the greatest favorites among annuals, partly because of its easy culture, but principally for its beautiful almost orchid-like flowers, which it produces from early summer till late fall.

591 **Large Flowering Mixed.** A splendid variety of colors, flowers large size. oz. 75c; pkt. 5c

**SCABIOSA.** (Mourning Bride or Sweet Scabious.) One of our handsomest summer border plants, producing in great profusion double flowers in a variety of shades and colors; a splendid flower for table bouquets, etc. Hardy annual. Pkt. 5c

592 **Black Purple.** Very large double flowers. . . . . 5c

593 **Golden Yellow.** Pure golden yellow, double flowers. . . . . 5c

594 **Snowball.** Elegant double white, fine for bouquets. 2 ft. . . . . oz. 60c; 5c

595 **Finest Mixed.** Large double flowers in choice variety of colors. . . . . oz. 30c; 5c

596 **Caucasia Perfecta.** One of the handsomest hardy perennials, especially adapted for cutting, the blooms lasting a long time in water. Flowers pale blue; large and very bright. 3 feet. . . . . 10c pkt.; 3 pkts. 25c

597 **Shasta Daisy.** A grand large-flowering Daisy, hardy, robust growth and produces larger and finer flowers each season as the plants increase in strength. The flowers measure four inches in diameter, and while single have three or more rows of long, slender, snowy-white petals surrounding a small golden-yellow center or eye. They are especially useful as cut flowers as well as showy bloomers for planting in beds or borders of perennial or hardy flowers. . . . . 20c pkt.; 3 pkts. 50c

**SMILAX.** In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorn the greenhouse or conservatory; for bouquets and floral decorations, it is indispensable. Soak the seed in warm water twelve hours and plant in pots, hot-bed or greenhouse, in February, and keep in a moist place. Tender perennial climber; white 10 feet.

598 **Myrsiphyllum.** (Boston Smilax) . . . . . oz. 60c, 5c pkt.

**SNOW-ON-THE-MOUNTAIN.** (See Euphorbia.)

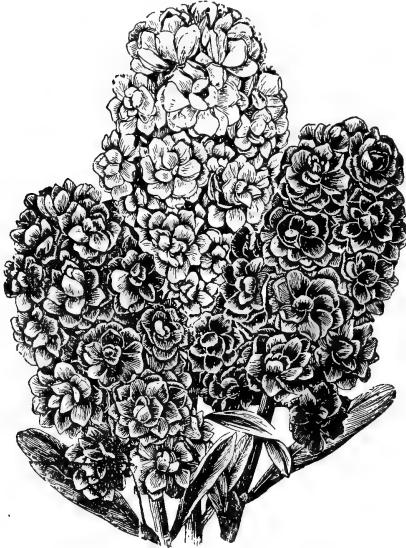
**STOCKS or GILLIFLOWER.** Stock seed may be sown in the open ground, or in the hot bed or cold frame but, if transplanted, let this be done when the plants are small, just out of the seed-leaf, or the plants become slender, and never make good plants nor flower well. A little shade from the hottest sun, and water in the evening, will add much to the size, beauty and durability of the flowers. Make the soil deep and rich. Some of the varieties are desirable for winter flowers, and are used for this purpose by florists.



Scabiosa

**GIANT PERFECTION TEN WEEK STOCK.** This magnificent strain is without a rival for open-ground planting, attaining a height of 2 1/2 feet. The spikes of bloom are long, and the individual flowers are enormous in size and very double.

- 599 **Light Blue.** . . . . . 10c pkt.; 3 pkts. 25c
- 600 **Rose.** . . . . . 10c pkt.; 3 pkts. 25c
- 601 **Scarlet.** . . . . . 10c pkt.; 3 pkts. 25c
- 602 **White.** . . . . . 10c pkt.; 3 pkts. 25c
- 603 **Finest Mixed.** All colors. . . . . 10c pkt.; 3 pkts. 25c
- 604 **Dwarf German Mixed.** All colors. . . . . 5c pkt.
- 605 **McCullough's Cincinnati Market.** A fine perpetual blooming stock, producing one long sturdy spike closely set with enormous double flowers. A grand variety; good forcer. . . . . 10c pkt.; 3 pkts. 25c
- 606 **Beauty of Nice.** A handsome winter stock of quick growth, flowers large size, of a delicate flesh pink. . . . . 10c pkt.; 3 pkts. 25c
- 607 **Princess Alice (Cut and Come Again.)** If sown early it commences blooming in June and continues until frost. It throws out numerous side branches bearing clusters of very double pure white fragrant blossoms, and is excellent for cutting. . . . . 10c pkt.; 3 pkts. 25c



Stock Giant Perfection.

608 **Stokesia Cyanea.** A beautiful, hardy perennial, growing about 24 inches high; each plant producing 20 to 30 handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost. One of the best hardy border plants; fine for cutting. . . . . 15c pkt.; 2 pkts. 25c

**SWEET WILLIAM.** (Dianthus Barbatus.) A well-known and popular flower, which has been improved the last few years, making it a most desirable plant for the garden. The double and single varieties, with their rich and varied colors, produce a charming effect for beds and borders. Seed planted early will bloom in the fall. It is better to sow seed every year, to have young plants, as they flower more freely. Hardy perennial.

609 **Auricula Eyed Perfection.** Splendid variety of colors with clearly defined eye oz. 50c, 5c pkt.

610 **Holborn Glory.** A large flowered selection of the Auricula Eyed section, the most beautiful of all Sweet Williams. The individual flowers and trusses are of large size. . . . . 10c pkt.; 3 pkts. 25c

611 **Single, Finest Mixed.** Choice colors. . . . . oz. 25c, 5c pkt.

612 **Double Extra Large.** Finest mixed. Very large flowers. . . . . 10c pkt.; 3 pkts. 25c



Sweet William.

The J. M. McCullough's Sons Co., Cincinnati, Ohio.

Gentlemen:—Having used many different kinds of grass seeds on my yard, I found nothing satisfactory until I tried your "Suburban Lawn Grass Seed." In quality I do not think there is any better. It appears that every seed that is sown, except those which the birds might gather, comes up, grows and makes a pretty green lawn. I take pleasure in recommending your "Suburban Lawn Grass Seed" to any who contemplate purchasing seed for their lawns.

Yours respectfully,

Parkersburg, W. Va.

GEO. H. GORDON.

**THUNBERGIA.** (Black-eyed Susan.) Beautiful, rapid-growing climbers, thriving in a light, rich, loamy soil, in warm situations in the garden. The flowers are very pretty, and are borne profusely during the season. Fine for vases, rustic work, or greenhouse culture. Half-hardy, annual. 4 feet.

613 **Finest Mixed.** All colors.....oz. 75c, pkt. 5c

**TORENIA.** A fine annual, forming a beautiful plant for vases, hanging baskets or for growing out of doors, covered with one mass of bloom until late in the season. Half-hardy annuals.

614 **Fournieri.** Porcelain blue and rich violet, throat bright yellow; free flowering. 6 inches.....10c pkt.; 3 pkts. 25c

615 **White Wings.** This variety is unusually attractive, being pure white, with flush of rose at the throat.....10c pkt.; 3 pkts. 25c

**VERBENA.** Nothing is easier to grow, and the display they give during the summer is equalled only by the Phlox. To have the best results seeds should be started early (in the house) and the young plants bedded out by the first of June. Set them a foot or more apart, and in a month, at least, they will be so grown and matted together that one can hardly tell one plant from another. A circular raised mound is a good place on which to plant Verbenas. The bed should have the full sun, and a good supply of water. Verbenas are easier grown from seeds than from cuttings, and such plants are more vigorous and free flowering. Sow them early, and they will bloom constantly from June until frost. The lavish and showy display of flowers in a Verbena bed is one of the most attractive.



Thunbergia.

616 **Mammoth Mixed.** The average trusses measure four inches in circumference, and the individual florets on properly grown plants over one inch across. They bloom freely, are vigorous in growth and contain all the beautiful new colors and shades.....oz. \$1.50; pkt. 10c

617 **Auriculæiflora.** Various shades, all with distinct eye of white or rose. 10c pkt.; 3 pkts. 25c

618 **Defiance.** Brilliant scarlet, fine for bedding.....10c pkt.; 3 pkts. 25c

619 **Candidissima.** Large trusses of pure white flowers.....10c pkt.; 3 pkts. 25c

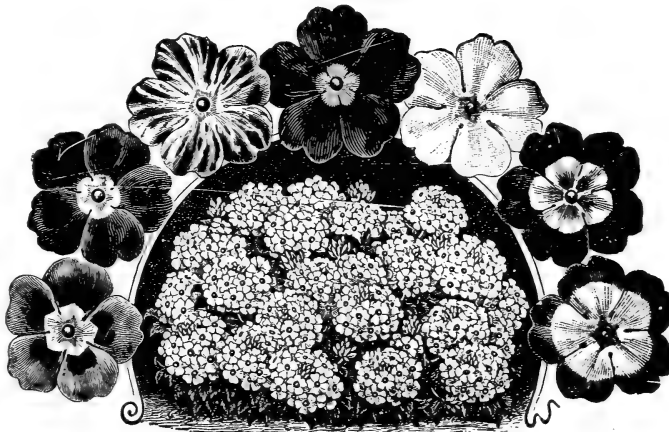
620 **Blue.** Bright blue, in various shades. 10c pkt.; 3 pkts. 25c

621 **Italian Striped.** Beautiful. 10c pkt.; 3 pkts. 25c

622 **Pink.** Bright shades of pink; fine. 10c pkt.; 3 pkts. 25c

**McCullough's Premier Collection Mammoth Verbenas.** Six varieties. One packet of each.....40c

623 **Extra Choice Mixed.** Embraces all colors.....oz. \$1.00; pkt. 5c



Verbena Mammoth

624 **Lemon Verbena** (Aloysia Citriodora.) Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower.....10c pkt.; 3 pkts. 25c

**SEEDS ARE DIFFERENT** from other merchandise. The real value of Seeds can only be known after months of labor. Buy your seeds of a reliable seed house with a reputation back of it. Seeds of real merit must be grown and sold by practical, trained seedsmen, with a reputation made and to be maintained.

**VINCA.** (Madagascar Periwinkle.) Ornamental free-blooming plants, and one of the most satisfactory bedding plants we have. They flower from seed the first season, continuing until frost; or they may be potted and kept in bloom through the winter. A fine cut flower. 2 feet.

625 **Alba Pura.** Beautiful, pure white.....10c pkt.; 3 pkts. 25c

626 **Rosea.** Rose, with dark eye.....10c pkt.; 3 pkts. 25c

627 **Rosea Alba.** White with crimson eye.....10c pkt.; 3 pkts. 25c

628 **Finest Mixed.** All colors.....oz. 75c, pkt. 5c

**VIOLET.** (Viola Odorata.) A great favorite, suitable for groups or borders, and much in demand on account of its profusion of bloom and delightful fragrance. Violet seeds germinate very slowly. Hardy perennials.

629 **Finest Mixed.** All varieties mixed.....10c pkt.; 3 pkts. 25c



Vinca Rosea.

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—Those fruit trees, grape vines, etc., I received from you last spring I certainly am well pleased with. They are the best trees I ever bought for the money I paid for them. They lived the best by transplanting than any trees I ever bought before. I received the trees in such a nice condition, packed up good, and in fine condition. If I want any more trees, grapes or fruit of any kind, I will surely give you my next order.

Krise, W. Va.  
Respectfully yours,  
ALEX BENNETT.

**WALLFLOWER.** Well-known deliciously fragrant, half-hardy perennials; blooming early in the spring. With large, conspicuous spikes of beautiful flowers; they should be protected in a cold frame in the winter, and planted out in May; are much prized for bouquets.

- 630 **Double, Finest Mixed**.....10c pkt.; 3 pkts. 25c
- 631 **Single, Finest Mixed**.....5c pkt.

**XERANTHEMUM.** (Everlasting.) Showy double free-flowering border annuals. If the flowers are cut in the bud state they may be dried and used for winter bouquets.

- 632 **Finest, Mixed Double.** All colors.....5c pkt.

**ZINNIA.** The double Zinnia is one of the most brilliant and showy of annuals and has long been a general favorite. The seed can be sown early in the hot-bed and transplanted, or sown later in the open ground. Half-hardy annuals.

- 633 **Mammoth-flowering.** The plant forms a handsome bush, two feet high, and the mammoth, perfectly-formed double flowers, measuring five to six inches across of most intense and brilliant colors, comprising new and rich hues.....Oz. \$1.00, 10c pkt.
- 634 **Queen Victoria.** A pure white variety. The flowers are perfectly double, of fine form, and measure about four inches across. This excellent variety comes true from seed 10c pkt.; 3 pkts. 25c
- 635 **Curled and Crested** A beautiful strain, the petals being twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the beautiful shades characteristic of the zinnia.....Oz. \$1.00, 10c pkt.
- 636 **Zebra.** A very pretty strain of striped flowers, as the colors vary on each plant, they present a curious as well as beautiful appearance.....Oz. \$1.00, 10c pkt.

**LARGE FLOWERING DOUBLE DWARF.**

- 637 **Bright Rose**.....Oz. 75c, 5c pkt.
  - 638 **Scarlet**.....Oz. 75c, 5c pkt.
  - 639 **White**.....Oz. 75c, 5c pkt.
  - 640 **Yellow**.....Oz. 75c, 5c pkt.
  - 641 **Finest Mixed.** All colors.....Oz. 50c, 5c pkt.
- McCullough's Premier Collection Large Flowering Zinnias.  
.....4 pkts. 1 pkt. of each 15c



Mammoth Flowering Zinnia

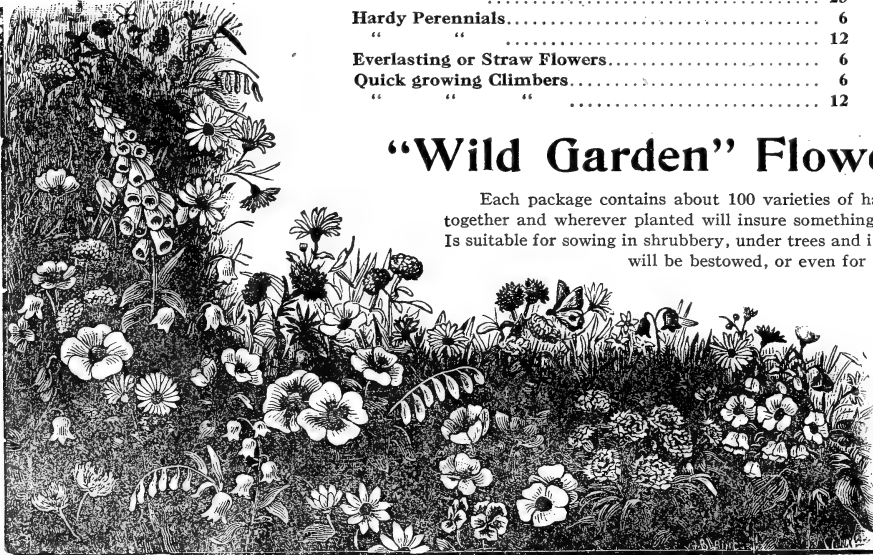
# Collections of Flower Seeds.

Hardy Annuals.....	6 Distinct Sorts	20 cts.
"    ".....	12    "    "	40    "
"    ".....	25    "    "	75    "
Hardy Perennials.....	6    "    "	20    "
"    ".....	12    "    "	40    "
Everlasting or Straw Flowers.....	6    "    "	20    "
Quick growing Climbers.....	6    "    "	20    "
"    "    ".....	12    "    "	40    "

## "Wild Garden" Flower Seed.

Each package contains about 100 varieties of hardy flower seeds mixed together and wherever planted will insure something new almost every day. Is suitable for sowing in shrubbery, under trees and in beds on which no care will be bestowed, or even for sowing in exposed situations,

where wildness is preferred to order and precision. To those who can not bestow the necessary care required in a neatly laid out flower garden, the "Wild Garden" presents a substitute which for its unusual and varied effect, for cheapness and small amount of labor necessary for its construction, has no rival.



- 650 **Dwarf Growing Varieties**.....Oz. 25c, 5c pkt
- 660 **Tall or Climbing Varieties**.....Oz. 25c, 5c pkt.

Our Fall Catalogue of Bulbs, etc., will be Issued About September 1st, and will be **SENT FREE** to all Customers and Applicants.

# SUMMER FLOWERING BULBS AND ROOTS.

Our Prices include Postage on Single Bulbs and by the Dozen, Except where otherwise noted.  
Bulbs Quoted by the Hundred are not sent Prepaid.



Single Tuberous-Rooted Begonias.

## AMARYLLIS.

Plant in equal parts sandy loam and leaf mould. If convenient, start in hotbed, beginning with fifty degrees of heat, increasing to sixty or seventy. When the leaves appear, water carefully and not in too great quantity. The Formosissima and Rosea planted in May make rich and showy border plants.

- Atamasco Rosea.** These are very ornamental, and flower all summer. Delicate pink.....5c each; 50c per doz.
- Belladonna Major.** Silvery white, turning to soft rose as the flower ages. ....25c each; \$2.50 per doz.
- Formosissima.** Rich, velvety crimson, fine.....15c each; \$1.25 per doz.
- Johnsonii.** Very large flower, of rich crimson-scarlet color; striped with white.....30c each; \$3.25 per doz.

**APIOS TUBEROSA.** A hardy tuberous rooted climber, [which grows to a height of 8 to 10 feet. Vine and foliage resemble the common Wistaria in miniature. Flowers are deep purple and have a strong fragrance.....5c each; 50c per doz.

## BEGONIAS, TUBEROUS-ROOTED.

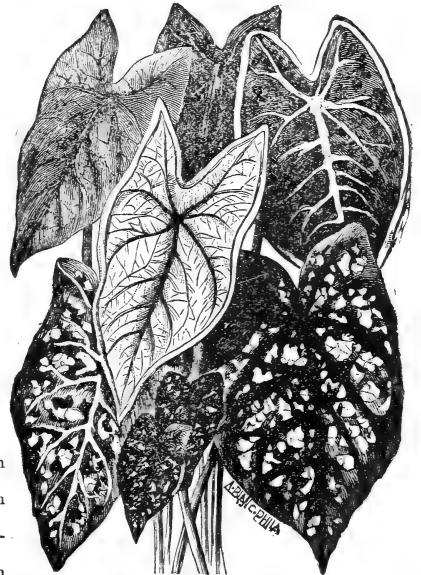
The Tuberous-Rooted Begonias are among the handsomest of our summer-flowering bulbs. They are not grown to the extent they should be, for they require no more care than Geraniums, have as fine a range of color and bloom continuously throughout the summer.

- SINGLE FRILLED.** Flowers of large size, with beautifully frilled and wavy petals. By careful selection this strain has been greatly improved and is now the finest of the tuberous-rooted varieties. ....15c each; \$1.50 per doz.
- Single, Orange, Red, Rose, Scarlet, White and Yellow.** in Separate colors.....10c each; 75c per doz.; \$5.00 per 100
- Single Varieties.** Mixed colors....8c each; 65c per doz.; \$4.50 per 100
- Double Varieties.** Orange, red, rose, scarlet, white and yellow. ....15c each; \$1.50 per doz.
- Double Varieties.** Mixed colors.....10c each; \$1.00 per doz.
- BEGONIA-GRAF ZEPPLIN.** Of strong vigorous though dwarf habit; 8 to 10 inches in height. Double flowers of intense vermilion-scarlet. ....20c each; \$2.00 per doz.
- BEGONIA-LAFAYETTE.** A splendid bedding variety. Flowers brilliant fiery scarlet; double and borne upright on their stalks. One of the best for bedding as it blooms all summer...25c each; \$2.50 per doz.

## CALADIUMS FANCY LEAVED.

Fancy-leaved Caladiums have, in recent years, grown very rapidly in popular favor, not only for the decoration of the conservatory, greenhouse and window boxes, but nearly all of the varieties succeed admirably if planted out of doors, when the ground has become warm, in partly shaded, sheltered borders, in well enriched light soil, while for exhibition plants at fairs, etc., during the summer and fall months, nothing can equal their beauty.

- ALPHONSE KARR.** Apple-green ground, carmine-lake ribs, deep red spots.
- C. E. DAHL.** Very large leaf, rosy-pink center; large transparent violet spots green border; very distinct and handsome.
- CHOPIN.** Dark green leaf, heavy raised dark red ribs, veins and center red; Vigorous grower.
- L'ALBANE.** White ground with deep green ribs.
- LA PERLE DU BRAZIL.** Dark green leaf with white spots, center pink, green ribs with spotted red blotches.
- MME DE VIGIER.** Rosy center and ribs, pink spots on a bluish green ground, the entire leaf netted red; very beautiful.
- MRS. JENNIE S. PERKINS.** Very large broad foliage, deep plum-colored center; dark red ribs; brilliant scarlet spots, with green border.



Fancy Leaved Caladiums

- LOUIS DUPLESSUS.** Red rays and veins on a white ground, with green margin.
- PORTA NOVA.** Deep green with greenish white center. Crimson ribs and spots.
- REFULGENS.** Green margin, broad red center and darker ribs.
- REINE VICTORIA.** Green, spotted with white and crimson.]
- RHONDA.** Dark green leaf with transparent pink blotches, robust grower. ....20 CENTS EACH, \$2.00 PER DOZEN.



Caladium Esculentum.

## CALADIUM ESCULENTUM. (Elephants Ear.)

One of the most effective plants in cultivation for the flower border, or for planting out upon the lawn. It will grow in any garden soil, and is of the easiest culture. It should be planted where it will obtain plenty of water and a rich compost. Foliage light green.

	Each	Per Doz.	By Mail.
1st Size. Small Bulbs.....	10c	\$1 00	15c each
2nd Size. Large Bulbs.....	15c	1 50	20c each
3rd Size. Extra Large Bulbs.....	25c	2 50	30c each
4th Size. Selected Extra Large Bulbs.....	35c	3 50	45c each
5th Size. Monster Bulbs.....	50c	5 00	60c each



# Summer Flowering Bulbs and Roots===Continued.

- CALLA, BLACK.** (Arum Sanctum). From the Holy Land, resembling in habit and foliage the White Calla; flowers of a rich blackish purple, and very large. . . . .15c each; \$1.50 per doz.
- CALLA, SPOTTED.** (Richardia Alba Maculata). Leaves deep green, with many white spots. Flowers pure white with black center. Culture easy; blooms freely. . . . .15c each; \$1.25 per doz.
- CALLA, ELLIOTTIANA.** Giant yellow Calla of great beauty. It has the habit of growth of the white variety, with flowers of same size and shape, but of a rich golden-yellow color; the foliage is dark green, with a number of creamy-white spots, which add much to its beauty. . . . .50c each; \$5.00 per doz.
- CINNAMON VINE.** Beautiful summer climber, glossy foliage and fragrant flowers; stem dies down in winter, but the root is hardy. Large selected roots. . . . .10c each; \$1.00 per doz.
- CYCAS REVOLUTA.** (Sago Palm). Valuable decorative plants for both house and lawn decoration; their heavy, glossy, deep green fronds resist alike the gas, dust and cold to which decorative plants are frequently exposed. We can supply dormant stems weighing from 1 to 6 lbs; 15cts. per lb. (If sent by mail 25 cts. per lb. postpaid.) Plants from \$1.00 to \$10.00 each.
- GLOXINIA.** Magnificent for house culture, producing in great profusion beautiful flowers of rich and beautiful colors. They succeed best in sandy loam and peat, and require a moist heat. After blooming, dry off gradually, let the bulb remain in the pot without water, and keep in a warm place until they show signs of starting again.
- Large Flowering Varieties.** Finest Mixed. . . . .15c each; \$1.50 per doz

## CANNAS, CROZY'S EVER-BLOOMING.

These varieties have become famous for the immense size and color of their flowers, the graceful and highly ornamental foliage, together with their dwarf habit of growth; are fast becoming most important plants for decoration.

- ALSACE.** Sulphur yellow, changing to creamy white without spots; vigorous grower, green foliage. 4 feet.
- ANNIE LAURIE.** Clear silvery pink flowers with cream throat, green leaves. 3 feet.
- AUGUSTA.** Bright crimson edged with broad band of yellow. 2½ feet.
- AUSTRIA.** Pure canary yellow, with reddish brown dots in the center of the two inside petals. Large open flower. 6 feet.
- BURBANK.** Rich canary yellow, lower petals spotted crimson. 6 feet.
- CHARLES HENDERSON.** Vermillion red, penciled with yellow in the center; compact, dwarf, with very large flowers. 3½ feet
- DUKE OF MARLBOROUGH.** One of the finest of the deep crimsons; fine individual blooms in large trusses, and exceptionally free flowering; 4 feet.
- EGANDALE.** A fine dark foliaged variety, with flowers current red; very distinct and striking appearance. 4 feet.
- FLORENCE VAUGHAN.** Rich golden yellow, spotted bright red. 4 feet.
- ITALIA.** Orange scarlet, with a broad golden yellow border. The flowers, which are produced on massive stems about sixteen inches long, are set well above the foliage. 5 feet.
- KING HUMBERT.** Flowers will measure six inches in diameter, and are produced in heavy trusses of gigantic size. Color, brilliant orange-scarlet with bright red markings. Foliage, broad and massive and of rich coppery-bronze with brownish-green markings; bold and effective; 5 feet.
- LOUISIANA.** Very large, beautiful, vivid, scarlet, Orchid-like flowers, often measuring five to six inches across. Foliage a glossy green, edged with a narrow purple band. 6 feet.
- MARTHA WASHINGTON.** Bright rose; flowers large, with immense trusses; very beautiful and attractive, a constant and abundant bloomer. 3 feet.
- MONT BLANC.** Large, beautiful white flowers on strong branching stalks, well above the foliage. It blooms early and continuously. Its great masses of snowy-white flowers contrast finely when planted with crimson and scarlet kinds; 3 feet.
- MRS. KATE GRAY.** Rich orange scarlet, overlaid with gold; flowers large, with immense trusses, foliage bright glossy green; one of the best. 6 feet.
- PAUL MARQUANT.** Large, handsome flowers of a bright salmon, shading to rosy carmine. Foliage dark green. 4 feet.
- PENNSYLVANIA.** Intense vermilion-scarlet, overlaid with an orange sheen. Flowers measure fully 6½ inches, are produced freely; foliage rich green. 5 feet.
- QUEEN CHARLOTTE.** Rich scarlet with a wide, bright gold band around each petal; large flowers, green foliage. 3 feet.
- RICHARD WALLACE.** Canary yellow, with large flowers which is carried well above the green foliage; free flowering vigorous growth. One of the best yellow Cannas, 4 feet.
- SHENANDOAH.** Flowers beautiful rosy pink, borne on large clusters. Foliage rich ruby red, exquisitely veined and tinted, resembling some rich tropical plant. 3½ feet.
- VENUS.** One of the softest and most delicately colored varieties. The flowers are of a soft rosy pink, with a pretty mottled border of creamy-yellow. Foliage, bright green. 3½ feet.



Crozy's Cannas.

The above-named Cannas 10c each, \$1.00 per dozen.

- CROZY'S DWARF VARIETIES.** Mixed. . . . .8c each; 75c per doz.  
**Strong Plants ready about May 1st; 20c each; \$2.00 per dozen; \$12.00 per 100.**
- BLACK BEAUTY.** Large massive foliage of the richest bronze purple color shaded with black, the edges of leaves gracefully undulating. Where foliage effect alone is desired, nothing richer or more handsome can be found. True stock. . . . .15c each; \$1.50 per doz.
- MUSAFOLIA.** Large dark green Musa-like foliage, the edge of the leaves banded with bronze purple. Grown as a specimen plant or in a bed on the lawn, no other foliage plant can approach it for beauty. 8 feet. . . . .10c each; \$1.00 per doz.
- ROBUSTA PERFECTA.** A distinct and handsome sort, bearing immense leaves eleven to eighteen inches wide and three feet long, of a bright bronze-red color; six to seven feet high. With good cultivation grows ten feet. . . . .10c each; 75c per doz.
- Tall Cannas, Finest Mixed.** . . . . .8c each; 75c per doz.  
**Strong Plants Ready about May 1st, 20c each, \$2.00 per doz.; \$12.00 per 100.**

# DAHLIAS.

Put Dahlia tubers in the ground when the season becomes warm, covering the neck some three inches. After flowering, and before hard frost, take up the plants, remove the tops, dry the bulbs a little, and put in cellar until spring, when they can be divided and replanted.

- A. D. LIVONI.** Soft pink, with quilled petals and full to the center; long stems. An early and profuse bloomer.
- ARABELLA.** Pale primrose, tipped and shaded old rose and lavender. An early and profuse flowering variety of large size and perfect form.
- CLIFFORD W. BRUTON.** Canary yellow; immense size and perfect form. A tall, vigorous grower and extremely free bloomer.
- COUNTESS OF LONSDALE.** Reddish salmon, center delicate apricot, shading towards the edges of the petals to a carmine pink. Flowers large, with twisted petals.
- FLORADORA.** (Cactus.) Beautiful scarlet crimson, full to the center, fine pointed petals; good size; branching growth and profuse bloomer.
- FRANK SMITH.** Rich purplish maroon, shading almost to black, each petal tipped with white, with carmine red shadings; vigorous growth, early and profuse bloomer.
- GABRIEL.** (Cactus.) An exquisitely shaped flower, long incurved twisted petals; color combination of scarlet and cinnamon shades, sometimes tipped white.
- GRAND DUKE ALEXIS.** Pure white, distinctly tinged delicate pink. A magnificent flower of largest size and distinctly unique form, as the petals are rolled up so that the edges overlap each other.
- HENRY PATRICK.** Pure white; large size, long stems; fine for cutting.
- JACK ROSE.** Brilliant crimson-red, rich and glowing. The habit of the plant is perfect for garden decoration, while its stiff stems, holding its large flowers erect, secure for it a foremost place as a cut flower.
- KREIMHILDE.** (Cactus.) Large size, free bloomer and the best of all for cut-flowers on account of its long keeping qualities; color, bright pink, tinted lighter toward the center petals.



Double Dahlias.

- LYNDHURST.** The brightest vermilion-scarlet; large flowers, perfectly full centers, with long stems.
- MRS. ROOSEVELT.** A beautiful flower, it is of immense size, fine color, and excellent stems for cutting. The flowers are perfectly double, 6 to 8 inches in diameter and of a delicate pink.
- NYPHEA.** Clear, distinct shrimp pink, shading slightly darker towards the outer petals; extensively grown for cut-flowers.
- PERLE D'OR.** Pure glistening white, of very large and exquisite form, with petals prettily notched, fine for cutting.
- QUEEN VICTORIA.** Handsome deep yellow, finely quilled, perfect form.
- RED HUSSAR.** The best scarlet-crimson. A strong vigorous grower; fine, large, well-formed flowers on long stems.
- STANDARD BEARER.** (Cactus.) Intense cardinal-red, with long twisted petals; early and profuse bloomer.
- SYLVIA.** White, shading to soft pink on outer petals, of fine form and full to the center. A strong, healthy grower and profuse bloomer
- WHITE SWAN.** Pure white, large and fine; the hardiest and easiest grown; long stems.
- WINSOME.** (Cactus.) Pure white, flowers large, with twisted, incurved petals, giving great depth to flower. A strong, vigorous grower of branching habit, profuse bloomer.
- WM. AGNEW.** Intense glistening scarlet crimson; immense size, perfect form; free flowerer. Very effective as a bedding plant or cut-flower.
- ZULU.** Black, changing to black-maroon as the flower fully expands; of fine form and full to the center.
- SNOWCLAD.** (Pompon.) The finest white, with long stems.
- SUNSHINE.** (Pompon.) Brilliant scarlet; fine form, full centers, long stems, largely used for cutting.
- SCARLET CENTURY.** (Single.) Brilliant scarlet with golden disc.
- TWENTIETH CENTURY.** (Single.) Early in the season, rosy crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to white suffused with soft pink.

Above Named Varieties; 15c Each; \$1.50 Per Dozen.

- Double Varieties.** Mixed..... 10c each; \$1.00 doz.
- Single Varieties.** "..... 10c each; \$1.00 doz.

## HYACINTHUS CANDICANS.

A snow-white summer-flowering Hyacinth, growing three to five feet in height, gracefully surmounted with from 20 to 30 pure white bell-shaped flowers..... 7c each; 60c per doz.

## ISMENE CALATHINA.

A grand summer-flowering bulb, producing throughout the season large Amaryllis-like, pure white, fragrant blossoms. Keep the bulbs in a dry warm place, and plant out in June. Bulbs can be taken up in October, and after a few weeks rest, potted and flowered in the house in winter, or kept over for planting out another season..... 20c each; \$2.00 per doz.

## MADEIRA OR MIGNONETTE VINE.

A rapid growing vine, covering a large space in a short time. Fleshy, heart-shaped leaves of a light green and numerous racemes of feathery flowers of delicious fragrance. A beautiful and popular vine..... 5c each; 40c per doz.



Copyrighted, A. BLAND  
Ismene Calathina.

# GLADIOLUS.

The most attractive of all summer flowering bulbs are the Gladioli. Wonderful improvements have been made in recent years in the size and beauty of these flowers, and our list comprises only the best selections, both in our mixtures and named sorts. Their cultivation is simple, as they will thrive in any ordinary garden soil, but amply repay care and liberal feeding by enhanced size and beauty. A succession of bloom may be had from July to September by planting at intervals from April to June. The strongest bulbs should be kept for the latest planting. Plant six inches apart in beds or double rows and three inches deep. They are very effective when planted among roses, shrubbery, etc. In the fall, before frost, the bulbs should be lifted, dried and stored in a cellar or some other position away from the frost, for planting again the following spring.

- AMERICA.** A beautiful flesh pink. One of the finest varieties for cutting or bedding, large flower.
- AUGUSTA.** Lovely pure white, with blue anthers.
- ATTRACTION.** Dark crimson, with a large pure white center and throat a beautiful and attractive sort.
- BRILLIANT.** Beautiful orange-red, with carmine and white throat.
- IRENE.** Beautiful pink freely flaked crimson; large flower and spike.
- KLONDYKE.** Light yellow, with crimson maroon blotch in the throat; a splendid free grower.
- MAY.** A lovely pure white flower, finely flaked bright rosy crimson.
- MARIE LEMOINE.** Large spike of fine well expanded flowers; upper divisions of a pale creamy color flushed salmon lilac, the lower divisions spotted violet and yellow.
- SHAKESPEARE.** White, very lightly suffused with carmine-rose; large rosy blotch.
- SUNLIGHT.** Light crimson with large canary-yellow throat; mottled velvety maroon; very striking color.
- VARIABILIS.** The flowers range in color from deep pink, flaked with blue-black, to a solid blue-black color, flaked with pink; some spikes will be one color and some the other, while flowers of both colors are often seen on the same spike; very large spikes.
- WM. FALCONER.** Beautiful clear light pink. Spikes of great length, and flowers of enormous size.

**Above-Named Varieties, 10c each. \$1.00 Per Dozen.**  
**LEMOINE'S HYBRIDS, SUPERFINE MIXED.** A beautiful and remarkable class of Gladiolus, which for vivid and rich orchid-like coloring have no equal; in the blotch, which is a remarkable and typical feature, the coloring is exceptionally fine.  
 4c each; 35c doz.; \$2.00 per 100  
**MCCULLOUGH'S SUPERB MIXTURE.** We can safely say this is the finest mixture procurable. It is made up from the lightest colored and largest flowering varieties; especially recommended to those who desire to grow them for cut-flowers.  
 4c each; 35c doz.; \$2.50 per 100



Gladiolus.

## GLADIOLUS IN MIXTURE.

Our mixtures are made up from fine varieties, and are all selected first-size bulbs, and are sure to give the best results.

	Each.	Doz.	100
Scarlet and Crimson. Shades mixed	5c	25c	\$1 50
White and Light. Shades mixed	5c	35c	2 50
Yellow Shades Mixed	5c	50c	3 50
Pink. Shades mixed	5c	35c	2 50
Extra Choice American Hybrids. Splendid mixture of choicest varieties	5c	30c	2 00
Fine Mixed. All colors	5c	25c	1 50

If Sent by Mail, Add 10 Cents per Dozen Extra for Postage.

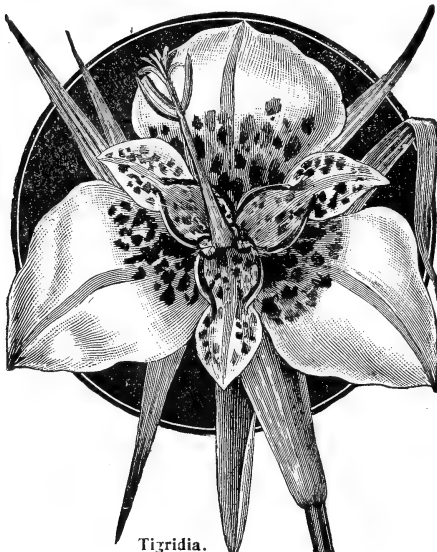
## OXALIS (Summer-Flowering.)

Valuable for edging walks, flower beds, etc. Bulbs planted three inches apart form rounded rows of delicate foliage, about one foot high, which produce flowers in endless succession.

<b>DIEPPI.</b> Bright crimson	15c per doz.; 75c per 100
<b>DIEPPI ALBA.</b> Pure white, very fine	15c per doz.; 75c per 100
<b>LASANDRIA.</b> Fine, rose pink, beautiful cut foliage. This is the tallest, and when planted in a bed with Dieppi, should occupy the center.	15c per doz.; 75c per 100

**TIGRIDIA, CALIFORNIA GIANT.** The bulbs of California-grown Tigridias are very large, solid and vigorous, keeps perfectly well over winter under ordinary conditions, whereas small ones dry out and decay. They also make a remarkably strong and vigorous growth, blooming early, and with remarkable profusion. We are sure that those who try these giant California bulbs will never plant any other, they are so much more satisfactory in every respect, and we hope all our customers will try at least a dozen as a sample.

**CALIFORNIA HYBRIDS, MIXED.** (Burbank.) Grand new strain, of mammoth size, and a great variety of colors; these will give unbounded satisfaction . . . . . 6c each; 60c per doz.; \$4.50 per 100



Tigridia.

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—I wish to thank you for the excellent results that I had from the seed purchased of you this last spring. All of the garden seeds turned out well, and were entirely satisfactory in every respect.

If you wish to refer to me at any time regarding the merits of your seed, etc., it will afford me pleasure to recommend same.

Yours very truly,

F. D. KENDALL

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—It may be interesting for you to know that the seed I received from you a few weeks ago have proved to be all that could be desired. They consisted of Seven Top and White Globe Turnip Seed and Red Clover and Timothy. In three days after sowing they were up and are growing vigorously, proving to be new and good seed.

Yours truly

Fort Payne, Ala.

WALTER NOVELLE.

# LILIES.



Lillium Auratum.

No class of plants can lay so much claim to our attention as the Lilies. They are stately, elegant and beautiful, and possess the most agreeable perfume, and for general effect, whether growing in garden or house, they have no rivals. The soil should be rich, deep and mellow with good drainage, as nothing will injure the bulbs more than water collecting and standing around them. Do not put manure around the bulbs when setting, as it collects moisture and insects, and often causes the bulbs to decay. Top dressing is the better way to enrich the soil after the bulbs are set. The beds should be well covered with leaves and straw manure to exclude the frost. Set bulbs four to six inches deep, according to their size.

**AURATUM.** (Golden Japan Lily.) This superb Lily has flowers 10 to 12 inches in diameter composed of six white petals, thickly studded with rich chocolate-crimson spots and a bright golden band through the center of each petal; exquisite vanilla-like perfume. Extra strong bulbs ..... 20c each; \$2.00 per doz.; \$10.00 per 100. Large bulbs ..... 15c each; \$1.50 per doz.; \$8.00 per 100.

**CANADENSE.** One of our hardy native sorts, and bears a graceful stem of drooping bell shaped yellow and red flowers. 10c each; \$1.00 per doz.

**LONGIFLORUM.** A variety bearing in clusters beautiful snow-white trumpet-shaped flowers of rare fragrance; fine for forcing and house culture ..... 20c each; \$2.00 per doz.; \$10.00 per 100.

**SPECIOSUM.** (Lancifolium.) Well known as Japan Lilies, and one of the most popular garden varieties, also excellent for pot culture, of easy growth, and may be relied upon to give satisfaction, growing two to four feet high and blooming in August.

" **ALBUM.** Large, fragrant, pure white. Extra strong bulbs. . . 25c each; \$2.50 doz.; \$15.00 per 100. Large bulbs. . . . 15c each; \$1.50 doz.; \$10.00 per 100.

" **RUBRUM.** White, heavily spotted with rich crimson, fragrant. Extra strong bulbs. 20c each; \$2.00 doz.; \$10.00 per 100. Large bulbs ..... 15c each; \$1.50 doz.; \$8.00 per 100.

**SUPERBUM.** A hardy native lily. Flowers bright orange red thickly spotted with purple. A strong growing plant often eight feet, bearing from 20 to 30 flowers. 15c each; \$1.50 per doz.

**TENUFOLIUM.** A native of Siberia. One of the hardiest Lilies; flowers vivid scarlet, with petals reflexed; showy and free-flowering, blooming early in the spring. It is of easy cultivation requiring only a well-drained sandy soil. . . . . 15c each; \$1.50 per doz.

**TIGRINUM SPLENDENS.** (Tiger Lily.) Orange red, spotted with black. 10c each; \$1.00 doz.

**TIGRINUM FLORE PLENO.** (Double Tiger Lily.) This is a plant of stately habit, bearing an immense number of double, bright orange-red flowers, spotted with black, three to five feet. August. . . . . 15c each; \$1.50 doz.

**UMBELLATUM.** A splendid hardy lily. Colors range from deepest red, rose, yellow, buff apricot, etc. . . . . 15c each; \$1.50 doz.

**WALLACEI.** This Lily is very floriferous, each bulb throwing up from 4 to 6 flower stems, each one of which is crowned with 8 to 10 beautiful upright blossoms, of a delicate bright apricot color. . . . . 15c each; \$1.50 doz.

# TUBEROSES.

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March, in the greenhouse or hotbed; and for succession they can be planted at intervals as late as August. For flowering in the open border, plant about the first of May.

**EXCELSIOR PEARL.** Much superior to the ordinary Double Pearl Tuberose. This variety is characterized by its short, robust stem and long spikes of flowers, which are more double and twice as large as those of the old sort. . . . 4c each; 35c per doz.; \$1.50 per 100.

**DWARF PEARL.** Large size. . . . . 3c each; 25c per doz.; \$1.25 per 100.

## ARMSTRONG'S EVER-BLOOMING TUBEROSE.

This charming single flowering Tuberose is of the purest white, both inside and out, even in the hottest sun, the petals recurve gracefully, flowering much earlier than the old single variety and producing from two to five flower stems from a single bulb. The odor is less heavy than that of the Double Tuberose. . . . . 4c each; 35c per doz.



Tuberose Excelsior Pearl.

The J. M. McCullough's Sons Co., Cincinnati, O.:

Dear Sirs—In the Spring of this year I sent you an order for some Herbaceous Plants, and in due time they came to me in excellent condition. I am pleased to tell you that all the plants lived and thrived, beautifully during the summer, and we enjoyed the blossoms very much; the Hardy Phlox were particularly fine. Would further add that all the plants and bulbs I have bought from you at different times have been entirely satisfactory.

Washington, Pa.,

Very truly yours,

MISS NELLIE SEAMAN.

# PALMS, FERNS, ARAUCARIAS, Etc.

SPECIMEN PLANTS A SPECIALTY.

We call special attention to our stock of Palms, Araucarias Ficus, Pandanus and other plants, which is the largest and most complete in the West. We have a full line of sizes, and can offer special inducements on FINE SPECIMEN PLANTS. Whenever possible we solicit a personal inspection of our stock either at NURSERIES OF THE McCULLOUGH SEED CO., McCullough Station, Pleasant, Ridge, Ohio, or at OUR STORE, 316 Walnut Street, Cincinnati, Ohio. Send all correspondence to our Cincinnati Offices.

## PALMS.



Areca Lutescens.

**ARECA LUTESCENS.** One of the most graceful and beautiful Palms grown; the foliage is of a bright glossy green, with rich golden yellow stems. . . . . \$1.00 to \$5.00

**CYCAS REVOLUTA.** (Sago Palm). A valuable decorative plant both for house and lawn. Their heavy, glossy, deep green fronds resist alike the gas, dust and cold to which decorative plants are frequently exposed. . . . . \$1.00 to \$10.00

Dormant Stems weighing from 1 to 6 lbs. each 15c per lb. If sent by mail 25c per lb. postpaid.

**KENTIA BELMORIANA.** One of the hardiest and best Palms for growing in the house. They are of slow growth and not affected by the dry atmosphere: of dwarf spreading habit. . . . . \$2.50 to \$5.00

**KENTIA FOSTERIANA.** A taller growing variety than the above, with broader leaves and longer stems. It makes a large plant in a shorter period—and for its majestic appearance, it is greatly in demand. . . . . \$2.50 to \$5.00

**LATANIA BORBONICA.** (Chinese Fan Palm). A very popular and hardy variety. . . . . \$1.00 to \$5.00

**LIVISTONIA ROTUNDIFOLIA.** One of the prettiest Palms, especially suited for table decoration. The foliage is gracefully recurved, forming an almost globular plant. . . . . \$1.50 to \$3.50

**PHOENIX ROEBELENI.** The delicate beauty of this the most graceful of all the Phoenix, and a palm which will become one of the most popular varieties for room decoration. The plant is of vigorous growth, and its gracefully recurring leaves, with very narrow, dark green pinnae, give the plant a lightness and airiness not surpassed, if equalled by the popular Cocos Weddelliana. At the same time it is as hardy as a Kentia succeeding admirably as a house plant. . . . . \$1.50 to \$4.00



Kentia Belmoriana.

## FERNS.

**ADIANTUM CUNEATUM.** The popular Maiden Hair Fern. . . . . 25c. to \$1.00.

**ADIANTUM FARLEYENSE.** This is the finest of all the Maiden Hair varieties. . . . . 50c. to \$2.00

**CYRTOMIUM FALCATIUM** (Holly Fern). Bright shining green pinnate foliage always attractive, easy of culture and one of the best of house ferns. 15c. each; \$1.50 doz.

**NEPHROLEPIS BOSTONIENSIS.** (Boston Fern). The fronds arch and droop very gracefully, on account of which it is frequently called the Fountain Fern. This drooping habit makes it an excellent plant to grow as a single specimen on a table or pedestal. . . . . 50c. to \$2.50

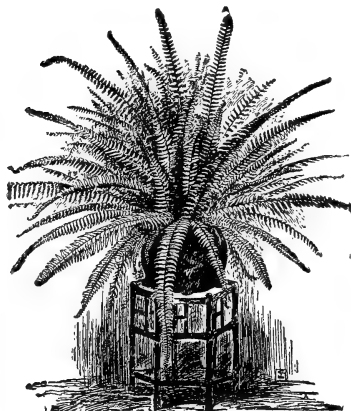
We have a few handsome Specimen Plants of Nephrolepis in hanging baskets and pots from \$3.50 to \$10.00 each.

**NEPHROLEPIS ELEGANTISSIMA COMPACTA.** A Dwarf Form of Nephrolepis Elegantissima, making dense, bushy, compact growth of ideal habit and shape. It forms a round, symmetrical, compact mass of foliage. One of the most valuable ferns. . . . . \$1.00 to \$5.00

**NEPHROLEPIS WHITMANI.** The most valuable Nephrolepis of the Ostrich Plume type yet introduced, is dwarf and compact habit, the pinnae being deeply divided, gives the plant a graceful appearance. . . . . 50c. to \$5.00

**PTERIS TREMULA.** One of the finest ferns for house decoration; growing very rapidly and throwing up large, handsome fronds; makes magnificent specimens; easily grown and very popular. . . . . 25c. to 50c.

**PTERIS OUVRARDI.** One of the best and most satisfactory of small ferns for the house culture producing numerous plain arching fronds in constant succession. . . . . 15c. each; \$1.50 doz.



Beston Ferns.

## ARAUCARIAS, ASPARAGUS SPRENGERI AND PLUMOSUS NANUS, DRACAENAS AND OTHER DECORATIVE PLANTS.

**ALOCASIA ILLUSTRIS.** The foliage is large, of a dark green, clouded with a velvety blue-black . . . . . 25c. to \$1.00 each.

**ARAUCARIAS.** Tender, but deservedly popular evergreens, and classed among the handsomest and most serviceable of decorative plants. We offer *Araucaria Excelsa*, *Araucaria Excelsa Glauca* and *Araucaria Robusta* from \$1.00 to \$5.00 each, according to size and variety.

**ASPARAGUS SPRENGERI.** A beautiful, graceful plant of drooping habit, for pots or hanging baskets. . . . . 10c. 25c. to \$5.00 each.

**ASPARAGUS PLUMOSUS NANUS.** Fine decorative vine, easily grown, and of a light, feathery growth. . . . . 15c. 25c. and 50c. each

**CYPERUS ALTERNIFOLIUS.** (Umbrella Plant). An excellent pot plant, and always presents a green and attractive appearance. . . . . 25c. to 50c.

**DRACAENA FRAGRANS.** One of the most admired of decorative plants, with beautiful deep green leaves. . . . . \$1.00 to \$2.50

**DRACAENA TERMINALIS.** Rich crimson foliage, marked with pink and white. . . . . 50c. to \$2.00

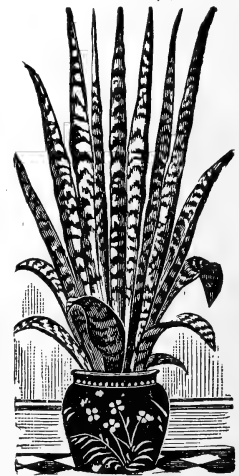
**FICUS ELASTICA.** The well-known India Rubber Tree, one of the best for table or parlor decoration. Its thick, leathery leaves enables it to stand excessive heat and dryness. . . . . 35c. to \$2.00

**FICUS PANDURATA.** The New Large-leaved Rubber Plant. Leaves of remarkable substance, enabling the plant to flourish under the most favorable conditions. . . . . \$2.50 to \$5.00

**PANDANUS VEITCHI.** The leaves are light green, beautifully marked with broad stripes of pure white and gracefully curved. . . . . \$1.00 to \$5.00

**SANSEVIERA ZEALANICA.** An elegant variegated plant, especially adapted for house decoration, the thick leathery leaves standing the heat and dust of the house with impunity. 25c. 50c. and \$1.00

Palms, Ferns, Araucarias, Dracaenas and other plants can only be sent by express at purchasers' expense.



Sansevieria.



**GENERAL LIST OF BEDDING PLANTS.**

	Each.	Per Doz.		Each	Per Doz.
AGERATUM, blue.....	10c	\$1 00	MARIGOLDS, sorts.....	5c	\$0 50
ALTERNAN'THERA, of sorts.....	8c	75	NASTURTIUMS, sorts.....	5c	50
ASTERS, assorted colors.....	5c	60	PANSIES, McCullough's Premier Strain, 5c to 8c		50 to 75
CANNAS, DWARF, started.....	15c to 20c	1 50 to 2 00	PETUNIA, double; sorts.....	15c	1 50
CENTAUREA GYMNOCARPA.....	10c	1 00	PETUNIA, single; sorts.....	10c to 15c	1 00 to 1 50
COLEUS, new sorts.....	8c	75	PHLOX DRUMMONDII.....	5c to 8c	50 to 75
GERANIUM, sorts.....	10c to 15c	1 00 to 1 50	SALVIA, scarlet.....	10c to 15c	1 00 to 1 50
HELIOTROPE, sorts.....	10c	1 00	VERBENAS, finest.....	8c	75
LANTANA.....	10c	1 00	VINCAS, sorts.....	10c	1 00
LOBELIAS, sorts.....	8c	75	ZINNIAS, sorts.....	5c	50

**CARNATIONS.**

The following varieties will be ready for delivery in April or May. They are strong plants, especially grown for summer and autumn blooming.

- ENCHANTRESS.** Delicate blush pink, deepening towards the center; large size.
- ESTELLE.** The ideal scarlet carnation; producing an abundance of bright scarlet flowers of large size, stem strong and stiff; very strong clove fragrance.
- LADY BOUNTIFUL.** Pure glistening white, large size, perfect form, very fragrant and profuse bloomer.
- MRS. THOS. W. LAWSON.** A beautiful deep pink flower of largest size; strong, stiff stem; fragrant.
- ROSE PINK ENCHANTRESS.** A pure, clear pink, large size, form and calyx flawless, stem long and stiff.
- VICTORY.** Brilliant scarlet, very large flowers, prolific bloomer, fragrant. One of the best scarlet sorts.
- WHITE ENCHANTRESS.** Pure white, large flowers; strong stiff stem; fragrant.
- WHITE LAWSON.** Large, pure white; strong stiff stems; fragrant.

15c each; \$1.50 per dozen.

**HARDY GARDEN PINKS.**

Old favorites, bearing sweet clove-scented flowers in the greatest profusion during May and June. 1 foot.

- DELICATA.** Soft delicate rose; very free.
- HER MAJESTY.** Large, double, white, clove-scented flowers.
- HOMER.** Rich, rosy-red, with dark center.
- NAPOLEON III.** Large double, crimson flowers, fragrant; the finest of all hardy pinks.

15c each; \$1.50 per dozen.



**CHRYSANTHEMUMS.**

- CHELTONI.** Large golden yellow, long drooping florets. Fine exhibition variety.
- COL. D. APPLETON.** A very large, bright, deep yellow, incurved. Extra fine
- DR. ENGUEHART.** Bright pink; a valuable variety for cut flowers.
- GLORY OF THE PACIFIC.** The best early pink, dwarf habit; strong, stiff stem and excellent foliage.
- GOLDEN CHADWICK.** A large, perfectly built, incurved flower of a deep lemon color.
- GOLDEN AGE.** Rich, golden yellow; petals broad and long, double to the center without an eye; large size.
- IVORY.** Pure white; a splendid free-flowering variety.
- MAJOR BONAFFIN.** Soft, clear yellow, incurved, full in the center; one of the best yellows; a beautiful flower.
- MILLICENT RICHARDSON.** Rosy violet with a silvery sheen on the back of the petals, large graceful recurved flower.
- MRS. JEROME JONES.** A beautiful waxy white, with broad, incurving petals; one of the finest.
- THE QUEEN.** One of the best white varieties.
- WHITE BONAFFIN.** A late flowering pure white; of fine form and substance.

15c each; \$1.50 per dozen.



Chrysanthemum.

**ORNAMENTAL GRASSES.**

- ARUNDO DONAX.** (Great Reed), An ornamental giant grass, growing ten to twelve feet high.
- ARUNDO DONAX VARIEGATA.** A variegated form of the above, growing six to eight feet high.
- ERIANTHUS RAVENNAE.** (Plume Grass), grows six to eight feet high, and produces handsome plumes in fall.
- EULALIA GRACILLIMA.** (Japan Rush), the most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib is of a silver sheen. Perfectly hardy, very valuable.
- EULALIA JAPONICA VARIEGATA.** leaves striped white and green longitudinally.
- EULALIA ZEBRINA,** (Zebra Grass), a peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light yellow alternating. The dried blooms of all the Eulalias make beautiful winter ornaments.

25c each; \$2.50 per dozen.



## EVERBLOOMING ROSES.

The tea-scented ever-blooming Roses are admired for their delicious fragrance, free-blooming qualities, and the exquisite form and coloring of their flowers. They make excellent bedders, and yield a succession of bloom through the entire season.

Hybrid Tea and Tea Roses are hardy south of the Ohio River, and with careful protection live through our severe northern winters, and among the most beautiful of all roses.

**AMERICAN BEAUTY.** (Hybrid Tea.) Deep rose shaded towards center, a rich carmine crimson; delicious fragrance.

**AUGUSTINE GUINOISEAU.** (White La France.) Pearly white, tinted with fawn.

**BESSIE BROWN.** (Hybrid Tea.) Creamy white, large flowers of perfect form, of good substance and highly fragrant. A strong, vigorous grower of erect branching habit.

**BURBANK.** Color, bright pink; strong, vigorous grower, perfectly hardy, fragrant, and free flowering.

**DR. GRILL.** Color, copper yellow. The best and freest flowering yellow rose, perfectly hardy.

**ETOILE DE FRANCE.** (Hybrid Tea.) Rich, velvety crimson, with cerise-red center. A strong, vigorous grower, with good flowers, which are full and double and as beautiful in the bud as in the full-blown flower, and borne on strong, upright shoots in great profusion.

**ETOILE DE LYON.** Deep golden yellow; very large and full buds, strong, vigorous grower; fine for outdoor summer blooming.

**GOLDEN GATE.** Creamy white, delicately tinged with rose; flowers of large, very double and full, and delightfully fragrant.

**HELEN GAMBIER.** Center coppery yellow, shading to amber and creamy white.

**GRUSS-AN-TEPLITZ.** (Hybrid Tea.) Bright scarlet, shading to crimson; fragrant and profuse bloomer. The foliage is beautiful, all the young growth being a bronzy plum color. A perfect mass of crimson scarlet all summer.

**HELEN GOULD.** (Hybrid Tea.) An excellent bedding variety, with large, full flowers of fine form, of bright, glowing carmine, the bud is long and pointed and as sweet as a June rose. A free and continuous bloomer.

**HERMOSA.** Probably the most popular bedding rose. It is a bright pink color, free flowering and perfectly hardy.

**KAISERIN AUGUSTA VICTORIA.** (Hybrid Tea.) Pearly white, lightly tinted with lemon in the center, remarkably fragrant, a strong healthy grower with bold, beautiful foliage. Flowers are borne on long stems.

**KILLARNEY.** (Hybrid Tea.) Brilliant pink. It is of strong robust growth, and free-flowering. The blooms are large, the buds long and pointed, petals very large and of great substance; altogether a Rose of unusual excellence.

**LA FRANCE.** (Hybrid Tea.) Splendid satiny rose; very large, full, fine form, a constant bloomer, delicious fragrance.

**MADAME ABEL CHATENAY.** (Hybrid Tea.) Flowers large and full, petals recurved, and of a beautiful rose, shaded with vermilion and tinged with salmon.

**MADAME CAROLINE TESTOUT.** (Hybrid Tea.) Brilliant satiny rose; flowers and buds extra large, of excellent substance, and keeps its color well; hardy strong grower.

**MADAME JULES GROLEZ.** (Hybrid Tea.) A beautiful satiny rose color, very bright and attractive, flowers of large size, very double, of good form, and remarkably free flowering.

**MAMAN COCHET.** Deep rose pink. A strong, healthy growing variety, with rich, bright foliage. A grand bedding rose, as it is a profuse and continuous bloomer.

**MAMAN COCHET WHITE.** The flowers are large size, pure white, sometimes tinged with rose; the finest white bedding rose.

**METEOR.** (Hybrid Tea.) Rich, dark, velvety crimson; a free-blooming and vigorous grower.

**MRS. B. R. CANT.** Dark carmine, flushed crimson, a vigorous grower, and nearly always in bloom. One of the best bedding Roses.

**PERLE DES JARDINS.** Beautiful rich yellow, of large size and perfect form.

**PRESIDENT CARNOT.** (Hybrid Tea.) The flowers of the largest size, of exquisite shape; buds long and pointed; color, outer petals, white center delicate flesh pink. Excellent summer blooming variety.

**RHEA REID.** (Hybrid Tea.) Flower large and double; free flowering and exquisitely fragrant; rich, dark, velvety red. The finest bedding red rose.

**SOUVENIR DE LA MALMAISON.** Rich flesh color, beautifully shaped, double flowers. A grand rose.

**SOUVENIR DE PIERRE NOTTING.** Color orange-yellow, bordered carmine-rose, very bright, with beautiful closely-set foliage and a strong, sturdy habit of growth. The bud is long and beautiful, the bloom very large, perfectly full, of elegant form.

**SUNRISE.** In close bud form it shows the high brilliant colors, scarlet and yellow. As it opens the color deepens, the scarlet turning darker red, the yellow to orange and copper, the inside of the petal golden yellow. The open rose is large, perfectly double.

**TAFT.** Color bright rose shading to pink on outer petals. Flowers large and fragrant, strong vigorous grower. The best pink summer blooming rose.

**WM. R. SMITH.** The flowers are large and double. The petals softly curled, colored cream with flesh tint tips, buffy-yellow base and the center pink; fine bedding variety.

Medium Sized Plants ..... 25 cts. each; \$2.75 per doz.  
Strong Plants ..... 50 cts. each; \$5.00 per doz.

Strong Rose Plants cannot be sent by mail. Medium Sized Plants 10c each extra if sent by mail.



La France.

## ROSA RUGOSA.

**ROSA RUGOSA.** The lovely Rugosa roses form sturdy bushes three to five feet in height, covered with handsome, glossy-green foliage, and clusters of beautiful single flowers, which emit a delightful odor. They bloom nearly the whole summer, and are covered during autumn and winter with red seed pods.

**RUGOSA.** Glossy-crimson.

**RUGOSA ALBA.** Pure white.

**RUGOSA BLANCHE DOUBLE DE COUBERT.** Double pure white, a vigorous rampant grower; very free blooming. Flowers measure nearly 5 inches across and are produced in clusters of from 6 to 10 flowers.

Strong Plants 30 cts. each; \$3.00 per doz. Extra Strong Plants 50 cts. each; \$5.00 per doz.

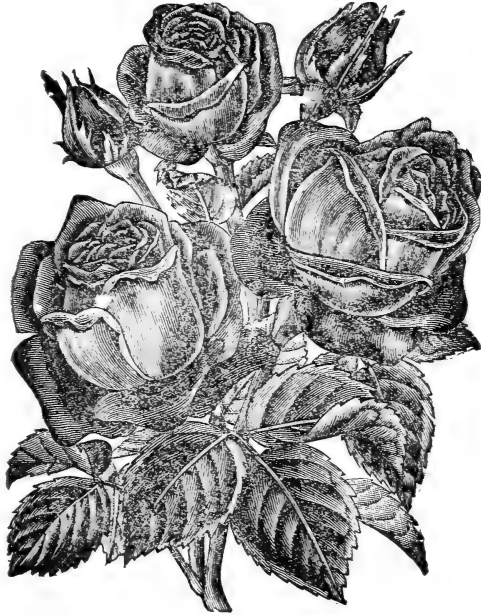
**ROSE, PERSIAN YELLOW.** Perfectly hardy; flowers double and full; deep golden yellow; blooms very freely in June. The finest hardy yellow rose grown.

**ROSE, SOLIEL D'OR.** A cross between Persian Yellow and Antoine Ducher. It is perfectly hardy, with large, full, globular flowers varying in color from gold and orange to reddish gold, shaded with nasturtium red.

Strong Plants, 30 cts. each; \$3.00 per doz. Extra Strong Plants, 50 cts. each; \$5.00 per doz.

## ROSES--Hardy Hybrid Perpetual.

Hybrid Perpetual Roses are hardy and vigorous. The flowers are very large, of delightful fragrance, and the colors are richer than the Teas and Everblooming.



Gen. Jacqueminot.

**CAPTAIN CHRISTY.** A lovely rose, very large, double buds of a deep flesh color.

**CAPTAIN HAYWARD.** Bright crimson-carmine; a distinct shade of color, of perfect form, and very sweet.

**COQUETTE DES BLANCHES.** White tinted pink, medium size, perfect form.

**DUC DE ROHAN.** Brilliant carmine, high center; excellent form.

**FISHER HOLMES.** Rich crimson; shaded scarlet; large and free.

**FRAU KARL DRUSCHKI.** The ideal hardy white rose, pure in color, perfect in form; strong grower and free flowering.

**GENERAL JACQUEMINOT.** Brilliant scarlet-crimson, of fine shape and exquisite fragrance.

**GLOIRE LYONNAISE.** White, tinted with yellow; large; full and of good shape; very distinct and pleasing.

**JOHN HOPPER.** Bright rose with carmine center, large and full.

**JULES MARGOTTIN.** Cherry red, large and full, free flowerer.

**MADAME CHARLES WOOD.** Rosy crimson, large and full, free bloomer.

**MAGNA CHARTA.** Bright pink, suffused with carmine; strong vigorous grower.

**MARCHIONESS OF LORNE.** Rich rose, shaded carmine, free.

**MARGARET DICKSON.** White with creamy center, cupped, large and free.

**MRS. JOHN LAING.** Soft pink, of beautiful form; exceedingly fragrant and free flowering.

**MRS. R. G. SHARMON CRAWFORD.** Deep rosy pink, outer petals shaded with pale flesh; a beautiful rose.

**PAUL NEYRON.** Very large dark rose; by far the largest rose in cultivation.

**ULRICH BRUNNER.** Bright cerise-red; flowers large and full.

Large Plants, 30c each; \$3.00 per dozen.

Extra Strong Plants, 50c each; \$5.00 per dozen.

### MOSS ROSES.

**CRESTED MOSS.** Rose color, beautifully crested.

**HENRY MARTIN.** Light red; very vigorous.

**MOUSSELINE.** Pure white; extra fine.

**PRINCESS ADELAIDE.** Bright silvery rose; large.

Large Plants, 30c each; \$3.00 per dozen.

Extra Strong Plants, 50c each; \$5.00 per dozen.

## Hardy Climbing Roses.

**BLUE RAMBLER.** (Violet Blue.) A seedling from Crimson Rambler, with large semi-double flowers produced in large trusses. The flower opens pink but quickly changes to violet or steel blue. The showy yellow stamens and the blue flowers harmonize well together. It is a strong grower with glossy green foliage with few thorns. Strong Plants, \$1.00 each.

**CLIMBING LA FRANCE.** Delicate silvery rose shaded with cerise pink, flowers large and free bloomer.

**CRIMSON RAMBLER.** The flowers are produced in trusses, fairly covering the plant from the ground to the top, so that it is one mass of glowing crimson. Strong and vigorous.

**DOROTHY PERKINS.** A shell-pink climbing rose. Is of the same strong habit of growth as Crimson Rambler, and the flowers are borne in clusters of thirty to forty. The flowers are large for a rose of this class, very double, and sweet scented. A good forcer and free flowerer.

**FLOWER OF FAIRFIELD.** (Ever Blooming Crimson Rambler.)

A sport from Crimson Rambler, with same climbing habit, hardiness and immense trusses of crimson flowers. It flowers on the young wood in its first year, is of vigorous growth, and when in bloom supersedes anything else by the wonderful display of its immense clusters of blossoms. It starts blooming in early spring and continues to flower till late in fall. Strong Plants, 75c each.

**GARDENIA.** (Wichuriana.) Buds bright yellow, opening double flowers of a cream color, incurving towards evening to the shape and the color of a cape jessamine. Suitable for climbing over walls, arbors, stumps of trees and for trailing over rocks or rough ground. The foliage is retained on the plants almost the entire winter, making them practically evergreen.

**LADY GAY.** A desirable variety of vigorous growth. The flowers are of a delicate cerise-pink changing to a soft white. Rich glossy foliage. The flowers are numerous and of good size, and delicately perfumed; perfectly hardy.

**MICHIGAN CLIMBER.** Single variety; flowers nearly two inches in diameter; produced very freely; color, bright rich pink; strong, vigorous grower.

**PINK RAMBLER.** Pure satiny rose, single in clusters. The partially open buds being bright light carmine, thus producing a strong and pleasing contrast.

**SWEET BRIAR.** Highly-prized on account of the delightful fragrance of its leaves and young branches. The flowers are single, bright pink; very desirable for hedges and general garden planting.

**TAUNUS-BLUMSCHEN.** A seedling of Crimson Rambler. Flowers beautiful rose pink; a profuse bloomer and fragrant.

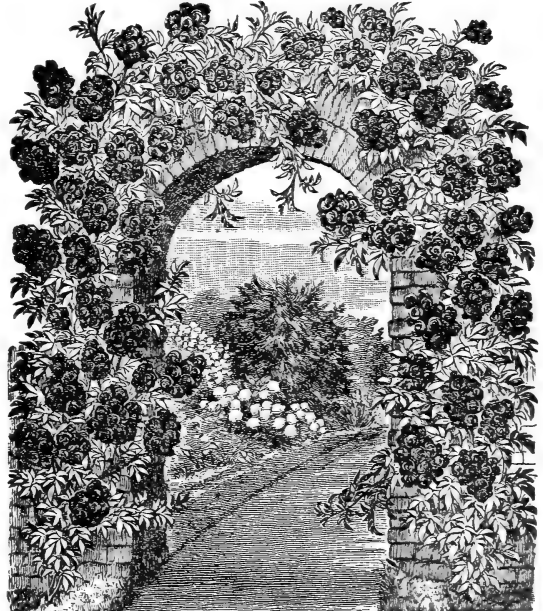
**TRIER.** Pale rose changing to white, semi-double, large clusters free and continuous bloomer.

**WHITE RAMBLER.** Closely resembles the Crimson Rambler in vine and foliage. Large clusters of pure white single flowers, which are deliciously fragrant. The flowers remain on the plant a long time and keep a long time when cut.

**YELLOW RAMBLER.** The flowers are borne in immense clusters, often as many as 150 blossoms in a bunch. The color is a decided yellow; the flowers are very fragrant; the habit of growth is very vigorous. Well established plants often making shoots eight to ten feet in one season.

Large Plants, 30c each; \$3.00 per dozen. Extra Strong Plants, at 50c each; \$5.00 per dozen.

Rose Plants can only be sent by express, at purchaser's expense.



Crimson Rambler.



### Japanese Iris.

- KOKYO BARE**—No. 24—Petals brownish red shading to pink, spotted with white and heavily veined, standards delicate purple with creamy yellow stripes, bright yellow center.
- KRISHI-IKARI**—No. 85—Petals brownish-red with light brown veins, center yellow, standards scarlet striped with white.
- KURO KUMO**—No. 72—Petals intense bluish-purple, heavily veined, bright yellow center, with light purple standards.
- KYO-DAI-YAMA**—No. 59—Petals indigo, standards greenish blue striped with white, large yellow center.
- MANAZUM**—No. 79—Petals soft lilac with darker veins, yellow center, standards purple, striped creamy white.
- MINOJI GA TAKI**—No. 15—Petals bright pink with dark carmine veins, standards lavender striped with white, center yellow
- OGINO-MATO**—No. 19—Outer petals, indigo purple shading to lilac, inner petals, pink and white with yellow center, standards brownish red, marbled with creamy white.
- OKINO-KAMOME**—No. 65—Petals recurved and creamy white, standards pure white, large bright yellow star center.
- SASSA NO KOE**—No. 34—Petals recurved and creamy white, beautifully veined pink and white, orange yellow center, standards pure white, spotted deep pink.
- SEN NIO DO**—No. 20—Beautifully blotched and spotted with scarlet on white ground, blending at center to creamy white with golden yellow star center, standards white edged with pink.
- SHIO KEMURI**—No. 25—Recurved petals of sky blue shading to white, with yellow star center, standards darker shade bordered with brown.
- SHIRAITO-DAKI**—No. 100—Petals creamy white with bluish tinge, finely veined, center yellow, standards white with deep blue edges.
- TAI HEI RAKU**—No. 99—Petals rich pansy purple, with golden-yellow center and light purple standards.
- YEZO-NISHIKI**—No. 16—Petals lavender, heavily spotted with dark purple, center yellow, standards lavender bordered with purple.
- YODO NO KURUMA**—No. 8—Petals bright pink shading to dark pink at center and heavily veined, standards purple marbled with white, center yellow.

Above named varieties, 25 cents each; \$2.50 per dozen.

By mail 30 cents each.

**FINEST MIXED.** 15c each; \$1.50 per dozen. By mail 20c each.

## GERMAN IRIS.

(*Iris Germanica.*)

The German Iris is one of the most desirable early spring flowering plants. The flowers of large size and of exquisite colors. No garden is complete without a collection of these beautiful "flags."

- BARON VON HUMBOLDT.** Dark blue.
- CANARYBIRD.** Light yellow or buff, very fine.
- COERULEA.** Sky blue.
- FLORENTINA ALBA.** White; one of the most desirable.
- COERULEA.** Blue, very fine.
- KING OF YELLOWS.** Yellow.
- L'INNOCENCE.** Pure white veined with orange purple.
- MAD. CHERAU.** Standard and falls pure white; daintly edged with light blue.
- MONT BLANC.** Pure white.
- PURPURASCENS.** Dark purple.
- QUEEN VICTORIA.** Blue, gradually changing to pale bluish white.
- THORBECKE.** White and deep violet.

Price, 15c each. \$1.50 per dozen. By mail, 20c each.

**IRIS PALLIDA DALMATICA.** One of the finest of the Germanica type, of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender shaded blue; exquisite in every way and fine for massing.

25c each; \$2.50 per doz.

**IRIS SIBIRICA.** Among the strong, free-growing Iris, adapting themselves to almost any position, and producing a mass of deep blue flowers under the most adverse conditions from June to August.

15c each; \$1.50 per doz.

## JAPANESE IRIS.

(*Iris Kaempferi.*)

A few years since we began importing this beautiful class of plants from Japan, and the demand is yearly increasing as their beauty and value become better known. No place, however small, is now complete without a collection. They are most effective when planted by groups, and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

We offer the following list of named sorts:

- AZUMA NISHIKI**—No. 15—Outer petals have soft pink ground, shading to white at edges, inner petals lilac. Bright yellow star center, standards white with red borders.
- AZUMA YUKI**—No. 81—Petals rosy purple with heavy white veins, standards brownish-red, striped with white, yellow star center.
- BANRAI NAMI**—No. 1—Petals pale pinkish white with white standards and yellow center.
- EZONISHIKI**—No. 6—Petals heavily splashed with purple on white ground, standards brown with purple shading, large yellow star center.
- FUROMON**—No. 28—Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center.
- GOSETSU NO MAI**—No. 12—Petals light blue, yellow star center, with dark bluish purple standards.
- HITOME-NO-SEKI**—No. 93—Petals pink and creamy white, beautifully blended, standards deep pink blotched with white, large yellow star center.
- JUNI-HITOE**—No. 86—Petals deep blue with pink veins, standards dark purple shading to lilac, yellow center.
- KIMINO-MEGUMI**—No. 97—Petals soft lilac with dark purple veins, yellow center and delicate purple standards.



German Iris.

## HARDY HERBACEOUS PERENNIAL PLANTS.

The steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. For such of our customers who are not acquainted with the different varieties we shall be pleased to make suitable selections of the most desirable species, that when once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.

15 cents each; \$1.50 per dozen (except where noted). If sent by mail, 20 cents each.

**AEGOPodium PODAGRARIA VARIEGATA.** (Bishops Weed.) Green and yellow variegated foliage, thriving in any soil; makes a fine border for a bed of shrubs or for covering waste ground. 1 foot.  
**ANCHUSA ITALICA, DROPMORE VARIETY.** A strong growing plant 5 to 6 feet high with broad foliage and large spikes of beautiful blue flowers the entire season..... 20c each; \$2.00 per doz.  
**ANEMONE QUEEN CHARLOTTE.** Large semi-double pink flowers. The most popular of all.  
**ANEMONE WHIRLWIND.** Large semi-double, pure white flowers; very free flowering.



**Coreopsis Lanceolata Grandiflora.**

center; they are of great substance and last a week or more when cut. 2½ feet.

**CLEMATIS RECTA.** A fine variety, with handsome pure white flowers in large clusters; very effective June; and July; 2 to 3 feet. 25c each; \$2.50 per doz.

**COREOPSIS LANCEOLATA GRANDIFLORA.** A beautiful hardy border plant; grows 15 to 18 inches high, and produces its bright golden yellow flowers in great profusion the entire season.

**DELPHINIUM FORMOSUM.** (Larkspur.) Large flower spikes, deep blue with white eye; blooms from July to September.

**DELPHINIUM KELWAYS HYBRIDS.** These grand Delphiniums are the handsomest of this class of plants and deserve a position in every garden; strong vigorous habit, with large flowers, in spikes 2 feet and over; mixed colors.

**DICTAMNUS FRAXINELLA.** (Gas Plant.) A showy old-fashioned border plant with fragrant foliage and spikes of curious showy rosy pink flowers in June and July.

**DIELYTRA SPECTABILIS.** (Bleeding Heart.) An old-fashioned favorite, equally well adapted for forcing for early spring flowering as for planting in the open border; its long racemes of graceful heart-shaped pink flowers are always attractive.

**DIGITALIS.** (Foxglove.) A handsome and highly ornamental, hardy perennial plant of stately growth, fine for shrubberies and other half-shady places; 3 feet.

**EUPHORBIA COROLATA.** A showy native plant, growing about 18 inches high, and bearing from June to August umbels of pure white flowers, with a small green eye; desirable for cutting.

**FUNKIA COERULEA.** (Blue Day Lily.) Blue, broad green leaves.

**FUNKIA SUBCORDATA GRANDIFLORA ALBA.** (August Lily.) Pure white, lily-shaped, fragrant flowers; borne in large clusters. 20c each; \$2.00 per doz.

**FUNKIA UNDULATA VARIEGATA.** Foliage green, striped with white.

**GAILLARDIA GRANDIFLORA.** Beginning to flower in June, they continue one mass of blooms the entire summer. Flower, 3 inches in diameter; center dark reddish brown; petals vary from scarlet orange to crimson.

**HELIANTHUS, MAXMILLIANA.** Single-flowered variety; growing from 5 to 7 feet high; September and October. The flowers are produced in long, graceful sprays, which make it invaluable for cutting purposes.

**HELIANTHUS, MULTIFLORIS FL. PL.** (Double Hardy Sunflower.) One of the most useful perennial plants. It produces its large, double Dahlia-like golden yellow flowers in great profusion during July and August; 4 feet.

**HELIANTHUS RIGIDUS.** A desirable variety, beginning to bloom early in July and continuing until fall; flowers single, golden-yellow, with dark centers; 3 feet.

**HELIANTHUS, SOLEIL D'OR.** Deep golden-yellow, quilled petals, not unlike a Dahlia; 4 feet; August and September.

**HEMROCALIS FLAVA.** (Yellow Day Lily.) One of the finest hardy plants; flowers large, in clusters, golden-yellow and fragrant; plant vigorous; 3 feet. June.

**HEMROCALIS KWANSO FL. PL.** Large double orange colored flowers. July and August.

**HEMROCALIS FULVA.** (Tawny Day Lily.) Orange colored flowers.

**HIBISCUS, "CRIMSON EYE."** Flowers of immense size. Color white, with a large spot of deep crimson in the center.

**HOLLYHOCK.** Few hardy plants combine as many good qualities as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery, they are invaluable. The flowers form perfect rosettes of the most lovely colors. They require rich, deep soil, well drained, and will repay in quantity and elegance of bloom any extra care. A slight protection during the winter will be beneficial. Double and single. Assorted colors.

**LYCHNIS CHALCEDONICA.** A desirable plant, grows 2 to 3 feet high; flowers brilliant orange scarlet, blooms all summer.

**LYCHNIS VISCARIA.** (Ragged Robin.) A showy double variety, with deep-red fragrant flowers, remaining in perfection for six weeks.

**ANTHEMIS TINCTORIA.** The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches high and blooming continuously during the entire summer. Large golden yellow flowers.

**ANTIRRHINUM.** (Snap Dragon.) Assorted colors.

**AQUILEGIA.** (Columbine.) Favorite late spring and early summer blooming plants growing about two feet high. Assorted colors.

**ARABIS ALPINA.** A dwarf growing plant completely covered with white flowers in early spring.

**ASTERS, HARDY.** Blooms in September and October; colors blue, lilac, crimson and white, mixed sorts; 1½ to 3 feet.

**BAPTISIA AUSTRALIS.** (False Indigo.) Strong grower, with dark green, deeply cut foliage and spikes of dark blue flowers in June and July. 2 feet.

**BOCCONIA CORDATA.** An attractive plant, growing 6 to 8 feet high, with large foliage and long spikes of white flowers in August. Well adapted for single lawn specimens.

**BOLTONIA LATISQUAMA.** (False Chamomile.) Large single, Aster-like flowers, blooming profusely during summer and autumn. Pink, slightly tinged with lavender. 4 to 6 feet.

**CAMPANULA.** (Canterbury Bells.) An elegant genus of plants, rich in colors, profuse in bloom and of easy culture. Assorted colors.

**CRYSANTHEMUM HARDY.** These beautiful small-flowered varieties are very popular for out-door bedding purposes. They are hardy, with a slight covering of leaves or coarse stable litter during the winter. They will produce an abundance of bloom until killed by frost. Pink, orange, white and yellow

**CRYSANTHEMUM, MAXIMUM.** A free-growing plant, forming bushy plants, which continue in full bloom from June to August. The flowers are 3 inches and over in diameter, pure white with a golden center. 2½ feet.



**Dielytra Spectabilis.**

The above plants 15 cents each; \$1.50 per dozen (except where noted). If sent by mail 20 cents each.



## HARDY HERBACEOUS PLANTS--Continued.

Price, 15 cents each; \$1.50 dozen (except where noted). If sent by mail 20 cents each.

- LYTHRUM ROSEUM SUPERBUM.** (Rose Loose Strife). A strong growing plant, 3 to 4 feet high, producing large spikes of rose colored flowers from July to September.
- MERTENSIA VIRGINICA.** (Blue Bells.) An early spring flowering plant growing about 1 to 1½ feet high, with drooping panicles of handsome light blue flowers, changing to clear pink; one of the most interesting of our native spring flowers; May and June.
- MONARDA DIDYMA.** (Oswego Tea). Large brilliant scarlet flowers: a very showy plant; 2 to 3 feet.
- PENTSTEMON BARBATUS TORREYII.** Spikes of brilliant scarlet flowers; height 3 to 4 feet; June to August; very effective.
- PHYSOSTEGIA VIRGINICA.** One of the most beautiful of our mid-summer flowering perennials, forming dense bushes 3 to 4 feet high, bearing spikes of delicate tubular pink flowers. Strong plants. . . . . 25c each; \$2.50 per doz.
- PLATYCODON GRANDIFLORUM.** Large bell shaped, blue flowers, blooms from July to September. Rapid growing plant of branching habit; 2 to 3 feet high.
- PLATYCODON MARIESI.** Deep blue, bell-shaped flowers, nearly 3 inches across: 1 to 2 feet high.
- PLUMBAGO LARPENTAE.** (Lead-wort.) Of dwarf spreading habit, growing 4 to 6 inches high; useful as an edging plant or for the rockery; covered with beautiful deep blue flowers during the summer and fall months.
- POPPY, ICELAND.** These range in color from white and yellow to orange scarlet. Height 12 to 18 inches. Often a hundred flower stems on a single plant. Bloom from June to October. . . . . 30c each; \$2.00 per doz.

The above plants 15 cents each; \$1.50 per dozen (except where noted)

If sent by mail 20c each.



Gaillardia.

## POPPY, ORIENTAL.

Nothing can equal these in gorgeous effect, and whether planted singly or in masses, their large flowers, rich coloring and freedom of bloom render them conspicuous in any position. They grow three feet high and bloom in May and June.

**GOLIATH.** Flowers scarlet of enormous size.

**MARY STUDHOLME.** Salmon, with silvery shade and a touch of carmine.

**PRINCESS VICTORIA LOUISE.** Soft Lilac rose.

**PROCEPINE.** Dark lilac with large black blotch.

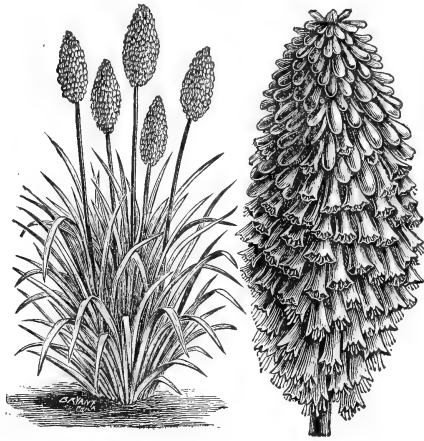
**ROYAL SCARLET.** Mammoth scarlet flowers with black center.

**SALMON QUEEN.** Soft, salmon-scarlet, very distinct.

**WURTEMBERGIA.** Dark red, very large flower.

The above named varieties, 25c each; \$2.50 per dozen.

Finest Mixed Varieties, 15c each; \$1.50 per dozen.



Tritoma Pfitzerii.

**SEDUM SPECTABILIS.** (Brilliant Stone Crop.) One of the prettiest erect growing species, attaining a height of 18 inches with broad light green foliage and immense heads of handsome, showy rose colored flowers.

**SHASTA DAISY.** Perfectly hardy, of easy cultivation and blooms for several months. The flowers are large, 4 to 5 inches across, with large broad petals of the purest white. June to October.

**STOKESIA CYANEA.** (Cornflower Aster.) produces showy Aster-like deep blue flowers which measure from 4 to 5 inches across. It is of the easiest culture, succeeding in any open sunny position. The plant grows from 18 to 24 inches high, blooming freely from July until frost.

**SWEET WILLIAM.** (Dianthus Barbatus.) Beautiful old-fashioned favorite border plant.

**SWEET WILLIAM, EVERBLOOMING HYBRID.** A beautiful summer bedding variety, producing masses of brilliant fiery crimson flowers throughout the entire season.

**TRITOMA PFITZERII.** The flower spikes, which are produced freely, are of gigantic size, frequently 4½ feet high, with heads of bloom over 12 inches long, of a rich orange scarlet, shading to a salmon rose on edge. A first-class acquisition. . . . . 20c each; \$2.00 per doz.

**VALERIANA OFFICINALIS.** (Hardy Garden Heliotrope.) Produces showy rose-pink heads of flowers during June and July with strong heliotrope odor.

**VERONICA LONGIFOLIA SUBSESSILIS.** A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall. .25c each; \$2.50 per doz.

**VINCA MINOR.** (Periwinkle or Trailing Myrtle.) An excellent dwarf evergreen trailing plant that is used extensively for carpeting the ground under the shrubs and trees, or on graves where it is too shady for other plants to thrive. . . . . 10c each; \$1.00 per doz.

**YUCCA FILAMENTOSA.** (Adam's Needle.) A hardy evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine stately lawn plant. . . . . 25c each; \$2.50 per doz.

The above plants 15 cents each; \$1.50 per dozen (except where noted). If set by nmail, 20 cents each.



Yucca Filamentosa.

**HARDY HERBACEOUS PLANTS--Continued.**

**PEONIES.**

Magnificent, hardy plants, almost rivaling the rose in perfume, brilliancy and color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger or finer blooms when well established.

	Each	Doz.
<b>DE CANDOLLE.</b> Currant red, tinged amaranth; distinct color, best of its shade very large and double.....	50	\$5 00
<b>DELICATA.</b> Rosy, white, fragrant and free; very double.....	40	4 50
<b>DUKE OF WELLINGTON.</b> Very broad white guard petals, center sulphury white, distinct and deliciously fragrant.....	35	3 50



Peonies.

<b>FELIX CROUSSE.</b> Large double ball-shaped bloom; color brilliant red; one of the finest self-colored varieties.....	60	6 00
<b>FESTIVA MAXIMA.</b> White with carmine tipped flakes to a few center petals; a strong grower with immense flowers, early, free flowering and fragrant.....	35	3 50
<b>FLORAL TREASURE.</b> Large, full, clear pink with lighter center; blooms large on heavy stems.....	40	4 50
<b>JEANNE D'ARC.</b> Outside petals rose colored, inside straw colored, with crimson spots.....	75	7 50
<b>LA NOBLESSE.</b> Light rose, with white center; blooms large and extra fine.....	40	4 50
<b>LIVINGSTONE.</b> Soft rosy pink, silvery reflex, strong long stems, best late pink.....	75	7 50
<b>LUCRECE.</b> Light rose, with flesh colored center; extra fine.....	40	4 50
<b>MADAME CHARLES LEVEQUE.</b> Pale blush, one of the best.....	75	7 50
<b>MARIE LEMOINE.</b> Large sulphur white shaded with pink; a magnificent variety.....	50	5 00
<b>MATHILDE DE ROSENECK.</b> Flesh pink, shaded chamois, with narrow carmine edge; very late; extra fine.....	50	5 00
<b>MONSIEUR DUPONT.</b> Very large, ivory white with carmine border in center petals; late mid-season.....	75	7 50
<b>PURPUREA SUPERBA.</b> Large purplish-crimson, large guards, center petals small; tall growing.....	40	4 50
<b>QUEEN VICTORIA.</b> Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine.....	30	3 00
<b>TRICOLOR ROSEA.</b> Dark violet rose; large globular flower.....	40	4 50
<b>OFFICINALIS ALBA PLENA.</b> Light pink changing to white.....	30	3 00
<b>ROSEA SUPERBA.</b> Large rose, very early and fine.....	30	3 00
<b>RUBRA PLENA.</b> The old fashioned deep crimson Peony; early.....	30	3 00
<b>UNNAMED VARIETIES.</b> Colors, crimson, rose and white.....	25	2 50

**PEONIES IN LARGE CLUMPS.**

We have a limited quantity of choice named varieties in large clumps, \$1.00 to \$2.00 each.

**PEONIES SINGLE JAPANESE.**

The single Peonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Peony for beauty, and an established bed, when in full bloom, with the large, silky flowers, and appearing like immense single Roses, is simply gorgeous.

We offer the following colors. **Carmine, Crimson, Magenta Maroon, Purple and Rose.** 30c each; \$3.00 doz.

**PEONIES JAPANESE TREE.**

The Tree Peonies grow in the form of a dwarf shrub. Very free flowering, blooming earlier than the herbaceous sorts, and while also perfectly hardy they are benefitted by a slight protection through the Winter. The flowers are very large, from 8 to 12 inches across, and are of the richest and most lovely shades of color. \$1.00 each; \$10.00 doz.

**PHLOX DECUSSATA—HARDY PHLOX.**

These are justly esteemed as the finest herbaceous plants. They are dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright showy bloom. They are hardly equaled by any other hardy plant for the decoration of the garden.

**ALBION.** A strong vigorous grower pure white flowers and reddish eye.  
**BERANGER.** White ground delicately shaded with pink and distinct red eye.  
**CHAMPS ELYSEE.** A conspicuous rose, purple.

**COQUILECOT.** Bright orange-scarlet, with crimson eye; extra large compact flower heads.

**DAUBIGNY.** Rosy purple, with enormous florets, extra fine.

**ECLAIREUR.** Dark crimson, center rose, surrounded with white, an excellent variety.

**ETNA.** Deep fiery red, dark eye. One of the most brilliant.

**F. G. VON LASSBURG.** The finest white flowers; very large; strong vigorous grower.

**GEO. A. STROHLEIN.** Bright scarlet, with crimson red eye; large flowers, does not bleach in the sun.

**HERMINE.** The best dwarf, pure white, early, fine for border; a perfect little gem.

**INDEPENDENCE.** An excellent large flowering early, pure white.

**LE MADHI.** Dark violet purple, very fine.

**MACULATA.** Tall growing, many branched, pyramidal trusses of bright purple.

**MISS LINGARD.** (Suffruticosa.) Pearly white, very early and free.

**OBERGARTNER WITTIG.** Large, crimson-carmine flowers, vigorous grower.

**PANTHEON.** Bright carmine rose; large and fine.

**R. P. STRUTHERS.** Rosy carmine, with red eye, one of the brightest and best.

**RICHARD WALLACE.** White with bright crimson center, large flowers in immense panicles.

**SELMA.** A pretty, delicate soft pale rose, with distinct red eye.

**SNOWFLAKE.** Large pure white, large flowering variety.

**THEBAIDE.** Salmon with carmine eye, dwarf extra fine.

**WM. ROBINSON.** Bright pink. Tall growing variety, suitable for back rows. 15c each; \$1.50 per dozen. If sent by mail, 20c each.

**PHLOX SUBULATA.** (Moss Pink), spreading stems and narrow, moss-like leaves; flowers, pinkish purple, with a darker center, and produced in wonderful profusion in April and May. 15c each; \$1.50 doz. By mail, 20c each.



Phlox.

# ORNAMENTAL FLOWERING SHRUBS.

SHRUBS are as much a part of the garden as the Lawn or Flower borders and a well arranged planting presents an attractive appearance throughout the entire year.

SHRUBS have many uses: As a back-ground to a flower border; for hiding an unsightly building, fence or foundation or they may be planted in a mixed shrubby border, in which case those of short dense growth should be planted along the front of the border, graduating to the tall-growing kinds at the back.

Thorough preparation of the soil by spading, and the additional of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting care should be taken not to overcrowd, allowing sufficient room for future development, and unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about 3 feet apart, the tall, strong growers about 5 feet apart.

Our list includes only varieties and kinds which have proven to be hardy, beautiful and vigorous. We shall always be pleased to make suggestions as to the best varieties to plant for certain purposes or locations, and we shall endeavor to suggest only such kinds as in our estimation are the most suitable.

OUR SHRUBS ARE TRANSPLANTED every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

SPECIMENS. This term is applied to shrubs that are perfect both in height and diameter as well as shape and are recommended where immediate effect is desired.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each.



Clethra Alnifolia.

**ALMOND DOUBLE FLOWERING.** A desirable class of early flowering shrubs, erect slender branches, covered with small double pink flowers. . . . . 60c each; \$6.00 doz.

**ALTHEA**, (Rose of Sharon). The Altheas are among the most valuable of our hardy Shrubs on account of their late season of blooming, which is from August to October, a period during which but few Shrubs or trees are in flower. They are also extensively used as hedge plants, for which they are admirably adapted. Each Doz.

- " **BOULE-DE-FEU**, deep fiery red. . . . . \$0 50 \$5 00
- " **GRANDIFLORA SUPERBA**, bluish, white shaded carmine. . . . . 50 5 00
- " **JEANNE D'ARC**, double white. . . . . 50 5 00
- " **MEEHANI**, beautiful variegated foliage with satiny lavender colored flowers, single fully open and free blooming. . . . . 50 5 00
- " **PURPUREA**, large single purple. . . . . 50 5 00
- " **TOTUS ALBUS**, single pure white. . . . . 50 5 00
- " **VARIEGATED LEAVES**, leaves conspicuously margined creamy white, flowers double purple. . . . . 50 5 00
- " **DOUBLE ROSE, DOUBLE WHITE AND DOUBLE PURPLE**. . . . . 50 5 00
- " **SMALL PLANTS**. . . . . 30 3 00

**BERBERIS PURPUREA**, (Purple-leaved Barberry), an interesting shrub growing 3 to 5 feet high with violet purple foliage and fruit; very effective in groups and masses, or planted by itself. Strong plants, 50c each, \$5.00 each 25 2 50

**BERBERIS THUNBERGII**. A beautiful Japan variety of dwarf habit. Small foliage, assuming the most varied and beautiful tints of coloring in the autumn; very desirable for grouping and a grand hedge plant. . . . . 30 3 00  
Strong plants 50 5 00

**CALYCANTHUS FLORIDUS**, (Sweet-Scented Shrub) flowers fragrant, like strawberries; double and of a chocolate color. . . . . 25 2 50  
Strong plants 50 5 00

**CARYOPTERIS MASTACANTHUS**, (Blue Spirea), a pretty autumn blooming shrubby plant producing clusters of beautiful blue fragrant flowers in great profusion from September until frost. Dies to the ground in winter. . . . . 25 2 50  
Strong plants 50 5 00

**CERCIS CANADENSIS**, (Judas Tree or Red Bud) very showy and beautiful when in bloom. All the branches and twigs are covered with a mass of small pink flowers early in the spring, before the leaves appear, 5 to 6 feet. 75 7 50

**CLETHRA, ALNIFOLIA**, (Sweet Pepper Bush) a desirable, dense growing shrub, with dark green foliage and showy upright spikes of creamy white fragrant flowers in August. . . . . Strong plants 50c each; \$5.00 doz. 25 2 50

**COLUTEA ARBORESCENS**, (Bladder Senna), a large shrub, with small all, delicate foliage and yellow pea-shaped blossoms, flowering in June, followed by reddish pods or bladder. . . . . 25c each, \$2.50  
Strong plants 50c each, \$5.00 doz

**CORCHORUS ARGENTEA VARIEGATA**, a dwarf variety with small green foliage, edged with white. One of the prettiest and most valuable of dwarf shrubs. . . . . 30c each; \$3 00 doz.

**CORCHORUS JAPONICA, JI. PL.**, (Globe Flower), a graceful shrub with double yellow flowers from June to October; 3 feet. . . . . 30c each; \$3.00 per doz.  
Strong plants 50c each; \$5.00 doz.

**CORCHORUS JAPONICA, Single**, a slender, green branched shrub, with globular yellow flowers, from July to October. . . . . 30c each; \$3.00 per doz.  
Strong plants, 50c each; \$5.00 doz.

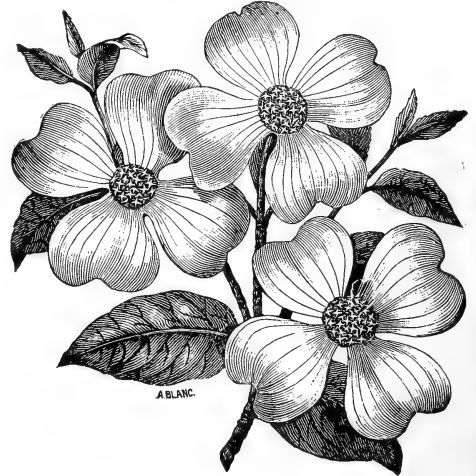
**CORNUS FLORIDA**, (White Flowering Dogwood). The flowers, produced in spring before the leaves appear, are from 3 to 3 1/2 inches in diameter, white and very showy. They begin to appear as the Magnolia flowers are fading, and are invaluable for maintaining a succession of bloom. Foliage grayish green, glossy, and handsome, and in the Autumn turns to a deep red, one of the most showy flowering trees. 5 to 6 feet. . . . . \$1.00 each; \$10.00 doz.

**CORNUS FLORIDA RUBRA**, (Red-flowering Dogwood). A rare variety, similar to the common type except in color of the flowers, which are rich rosy-red. The two varieties make a fine contrast. 3 to 4 feet. . . . . \$1.25 each; \$12.00 per doz.

**CORNUS MASCULA**, (Cornelian Cherry), a small tree-like shrub, producing early in spring, before the leaves appear, clusters of bright yellow flowers, are followed by red berries. . . . . 40c each; \$4.00 per doz.

**CORNUS SANGUINEA** (Red Twigged Dogwood), a strong growing bush, with crimson-colored branches, especially attractive in winter. . . . . 30c each; \$3.00 per doz.

**CORYLUS PURPUREA**, (Purple Leaved Filbert). A conspicuous shrub with large dark leaves; distinct and fine. . . . . 60c each; \$6.00 per doz.



Cornus Florida.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each that will produce an immediate effect when properly planted.

Extra Strong Specimen Plants of most all sorts, \$1.00 to \$5.00 each.



**Exochorda Grandiflora.**

**ELDER GOLDEN**, (Sambucus), beautiful golden yellow foliage; grand for single specimen plants planted in masses by themselves or to contrast with other shrubs. . . . . Strong plants 50c each, 5.00 per doz  
**ELEAGNUS LONGIPES**, a desirable, nearly evergreen shrub, with foliage, which is silvered on the under surface. Its creamy white blossoms open in April or May; the scarlet edible fruits hang thickly along its branches and are ripe in July. . . . . They make delicious sauces. . . . . Strong plants 50c each, \$5.00 doz.  
**EUONYMUS EUROPAEUS**, (Burning Bush), a conspicuous shrub in the autumn and winter, when loaded with scarlet seed pods, from which the orange-colored berries hang on slender threads, 3 feet. . . . .

**EXOCHORDA GRANDIFLORA**, (Pearl Bush), a vigorous-growing shrub, bearing white flowers in slender racemes in early spring; very graceful; useful for cut flowers. . . . . Strong plants 50c each; \$5.00 doz.

**FORSYTHIA FORTUNEI**, (Golden Bell), of upright growth, deep green foliage and bright yellow flowers in April. . . . .

**FORSYTHIA SUSPENS**A, (Weeping Golden Bell), willow growth, the branches gracefully arching, covered with golden-yellow bells in early spring. . . . .

**FORSYTHIA VIRIDISSIMA**, (Golden Bell), foliage deep green; flowers bright yellow, a fine hardy shrub and one of the earliest to flower in spring. . . . .

**FRINGE, PURPLE OR SMOKE TREE**, (Rhus Cotinus), has very curious bloom, which when covered with dew, resembles a cloud of smoke or mist. . . . .

**FRINGE, WHITE**, (Chionanthus Virginica), a tall-growing shrub, blooming profusely in June. The singular flowers resemble bunches of white silken fringe hung gracefully among the foliage. . . . .

**HALESIA TETRAPTERA**, (Silver Bell), a beautiful large shrub, with pretty white, bell-shaped flowers in May. It is distinguished by its four winged fruit, which is from one to two inches long; 3 feet. . . . .

**HYDRANGEA ARBORESCENS STERILIS**, introduced as the (Snowball Hydrangea). It is perfectly hardy and will flower for fully three months making it one of the most valuable of hardy shrubs with large snowy white blooms. . . . . Strong plants 60c each; 00 doz.

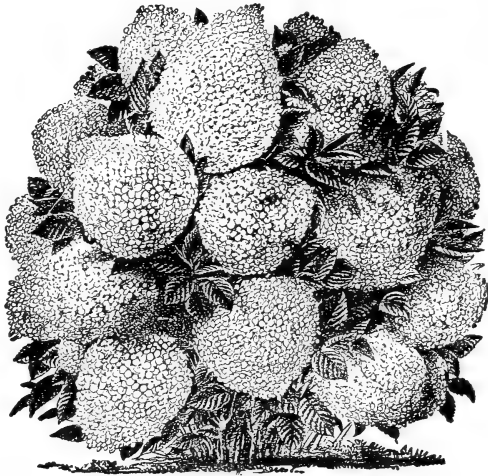


**Lilac.**

**PHILADELPHUS LEMOINEI ERECTA**, a charming variety of upright growth; flowers small, yellowish white fragrant

<b>CRAB BECHTEL'S DOUBLE FLOWERING.</b> Most beautiful of all the flowering Crabs. Trees of medium size are covered in early spring with large double fragrant flowers of a delicate pink. 4 to 5 feet. . . . .	Each	Doz.
	\$1 00	\$10 00
<b>DESMODIUM PENDULIFLORUM.</b> A shrub-like plant that dies to the ground in winter, but comes up vigorously in spring, throwing up shoots 3 to 4 feet high which bear during September attractive sprays of bright rose-colored flowers. Strong plants 50c each; \$5.00 doz.	40	4 00
<b>DUETZIA GRENATA FLORA PLENA</b> , flowers double white, tinged with pink, very desirable, 2 to 3 feet. . . . .	30	3 00
<b>DUETZIA GRACILIS</b> , a dwarf bush, covered with spikes of pure white flowers in early summer. . . . .	30	3 00
<b>DUETZIA LEMOINEI</b> , flowers pure white, borne on stout branches, which are of upright growth. Habit dwarf and free flowering. A decided acquisition. . . . . Strong plants 50 5 00	30	3 00
<b>DUETZIA PRIDE OF ROCHESTER</b> , large double white flowers; the back of the petals being slightly tinted with rose. It excels all the older sorts in size of flower, length of panicle, profusion of bloom and vigorous habit. . . . . Strong plants 30 3 00	30	3 00
<b>DWARF HORSE CHESTNUT</b> , (Pavia Macrostachya), makes a broad bush, with white flowers in summer. . . . .	1 25	12 00
<b>ELDER, CUT-LEAVED</b> , a beautiful variety of the American Elder, with deeply and delicately cut dark green foliage. . . . .	30	3 00

	Each	Doz.
<b>EXOCHORDA GRANDIFLORA</b> , (Pearl Bush), a vigorous-growing shrub, bearing white flowers in slender racemes in early spring; very graceful; useful for cut flowers. . . . . Strong plants 50c each; \$5.00 doz.	\$0 30	\$3 00
<b>FORSYTHIA FORTUNEI</b> , (Golden Bell), of upright growth, deep green foliage and bright yellow flowers in April. . . . .	50	5 00
<b>FORSYTHIA SUSPENS</b> A, (Weeping Golden Bell), willow growth, the branches gracefully arching, covered with golden-yellow bells in early spring. . . . .	30	3 00
<b>FORSYTHIA VIRIDISSIMA</b> , (Golden Bell), foliage deep green; flowers bright yellow, a fine hardy shrub and one of the earliest to flower in spring. . . . .	50	5 00
<b>FRINGE, PURPLE OR SMOKE TREE</b> , (Rhus Cotinus), has very curious bloom, which when covered with dew, resembles a cloud of smoke or mist. . . . .	30	3 00
<b>FRINGE, WHITE</b> , (Chionanthus Virginica), a tall-growing shrub, blooming profusely in June. The singular flowers resemble bunches of white silken fringe hung gracefully among the foliage. . . . .	50	5 00
<b>HALESIA TETRAPTERA</b> , (Silver Bell), a beautiful large shrub, with pretty white, bell-shaped flowers in May. It is distinguished by its four winged fruit, which is from one to two inches long; 3 feet. . . . .	60	6 00
<b>HYDRANGEA ARBORESCENS STERILIS</b> , introduced as the (Snowball Hydrangea). It is perfectly hardy and will flower for fully three months making it one of the most valuable of hardy shrubs with large snowy white blooms. . . . . Strong plants 60c each; 00 doz.	30	4 00



**Hydrangea Paniculata Grandiflora.**

<b>HYDRANGEA PANICULATA GRANDIFLORA.</b> This is the finest shrub in cultivation, and endures heat and cold extremely well. The flowers, which are borne in dense pyramidal panicles in the greatest profusion, are white when they first open, but gradually change to rose and remain in good condition for weeks. . . . . Strong plants 30 3 00	Each	Doz.
	50	5 00
<b>HYDRANGEA PANICULATA GRANDIFLORA STANDARD OR TREE SHAPED PLANTS.</b> These are fine specimen plants, four and five years old, trained to tree shape with about three feet of straight stem and nicely shaped heads, should bloom profusely the first year. . . . .	75	7 50
<b>LILAC, CHARLES X</b> , rapid grower, reddish, purple flowers. . . . .	50	5 00
<b>JOSIKAEA</b> , blooms in June, flowers lilac purple. . . . .	50	5 00
<b>LUDWIG SPAETH</b> , long panicles of purplish-red flowers. . . . .	50	5 00
<b>MADAME LEMOINE</b> , double white flowers. . . . .	50	5 00
<b>MARIE LEGRAVE</b> , flowers pure white, extra. . . . .	50	5 00
<b>MICHAEL BUCHNER</b> , double pale lilac. . . . .	50	5 00
<b>Extra strong specimens of above named varieties \$1.00 to \$1.50 each.</b>		
<b>NAMED VARIETIES</b> , standard or tree shaped plants. . . . .	60	6 00
<b>COMMON</b> , (Syringa Vulgaris), the common purple species, and one of the best, 3 feet. Strong plants 50c each; \$5.00 doz.	30	3 00
<b>COMMON WHITE</b> , (Syringa Vulgaris alba). Flowers pure white; very fragrant. 2 feet. Strong plants 50c each; \$5.00 doz.	30	3 00
<b>PHILADELPHUS CORONARIUS</b> , (Mock Orange or Syringa), a well known shrub, with pure white, highly scented flowers. One of the first to flower. . . . . Strong plants 50c each; \$5.00 doz.	30	3 00
<b>PHILADELPHUS CORONARIUS AUREA</b> , (Golden-leaved Mock Orange), fine golden yellow foliage, contrasting beautifully with the dark leaves of other shrubs. . . . . Strong plants 30 3 00	30	3 00
<b>PHILADELPHUS GRANDIFLORUS</b> , Large showy white flower, a vigorous grower. . . . . Strong plants 50c each; \$5.00 doz.	30	3 00
	30	3 00
	50	5 00

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each, that will give immediate effect when properly planted.

Extra Strong Specimen Plants of most all sorts \$1.00 to \$5.00 each.

**PEACH, CLARA MEIER.** The finest double flowering Red Peach..... \$1.50 each; \$15.00 doz.  
**PEACH, PERSICA ROSEA.** Extra large double pink flowers..... \$1.00 each; \$10.00 doz.  
**PRUNUS PISSARDI.** (Purple-leaved Plum.) The finest purple-leaved small tree or shrub. The young branches are a dark purple; the leaves, when young, are lustrous crimson, changing to dark purple, and retain this beautiful tint. The tree is covered early in the spring with small single white flowers, which appear before the leaves. Beautiful as lawn specimens, or grouped with other shrubs and trees for foliage effect. 5 to 6 feet..... 75c each; \$7.50 doz.

**PRUNUS TRILOBA.** (Double-flowered Plum). A very desirable addition to hardy shrubs; flowers double, of a delicate pink, upwards of an inch in diameter, thickly set on the long, slender branches; flowers in May..... 75c each; \$7.50 doz.

**RHODOTYPUS KERRIOIDES, (White Kerria).** Each Doz.  
 A very ornamental Japanese shrub of medium size, with pretty foliage and large single white flowers the latter part of May. Strong plants..... \$0 50 \$5 00

**RHUS TYPHINA,** (Stag horn Sumach), large shrub or tree with beautiful pinnate foliage and scarlet fruit in autumn. Strong plants..... 40 4 00  
 75 7 50

**RIBES AUREUM, (Yellow-Flowered or Missouri Currant).** A native species with glabrous, shining leaves and yellow flowers; the flowering currants are beautiful shrubs in early spring, and of easiest culture..... 30 3 00  
 Strong plants 50 5 00

**ROBINIA HISPIDA,** (Rose Acacia), a native species of the Locust, of spreading, irregular growth, with long, elegant clusters of rose-colored flowers in June and at intervals throughout the season..... 75 7 50

**SNOWBERRY WHITE FRUITED,** a well known shrub with small pink flowers and large white berries that hang on the plant the greater part of the winter..... 30 3 00

**SPIREA ANTHONY WATERER,** a valuable and distinct variety; color bright crimson; it is of dwarf, dense growth never exceeding 24 inches in height, and a profuse bloomer in spring and fall..... 25 2 50  
 Strong plants 35 4 00

**SPIREA BUMALDA,** a spreading low bush; with dark leaves brightened by corymbs of pretty, light pink flowers in May and at intervals, all summer..... 30 3 00

**SPIREA, CALLOSA ALBA,** a white flowering variety of dwarf, bushy, symmetrical form. Keeps in flower all summer..... 30 3 00



Snowball.

**SPIREA OPLIFOLIA AUREA,** (Virginian Guelder Rose), an interesting variety with golden-tinted foliage and large white flowers in June..... \$0 30 \$3 00

**SPIREA PRUNIFOLIA FL. PL.,** (Bridal Wreath), blooms in May, with pure white double flowers. Makes showy specimen plants for lawn..... 30 3 00  
 Strong plants 50 5 00

**SPIREA REEVESII FL. PL.,** tall and graceful, with dark, bluish green foliage, and large pure white double flowers, in May and June..... 30 3 00

**SPIREA, THUNBERGII,** one of the finest shrubs to flower in the spring. Forms a perfect well rounded bush, dwarf and compact, a perfect ball of white when in bloom..... 30 3 00

**SPIREA VAN HOUTTEI,** the grandest of all the Spireas; it is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom. Clusters of 20 to 30 flat white florets make up the racemes, and these clusters are set close along the drooping stems. Perfectly hardy and an early bloomer..... 25 2 50  
 Strong plants 50 5 00

**TAMARIX, AFRICANA,** of graceful spreading growth, covered with pink flowers in early spring..... 40 4 00



Spiraea Van Houttei.

**VIBURNUM OPULIDUM,** (High Bush Cranberry), both ornamental and useful. Each Doz.  
 Its red berries resembling cranberries, esteemed by many, hang until destroyed by frost late in the fall..... \$0 30 \$3 00  
 Strong plants 50 5 00

**VIBURNUM STERILIS,** (Snowball), a favorite shrub of large size, with globular clusters of pure white sterile flowers the latter part of May..... 25 2 50  
 Strong plants 50 5 00

**VIBURNUM Plicatum,** (Snowball, Japan), one of the most valuable hardy shrubs. It forms an erect, compact shrub six to eight feet high; blooms in early June, and for a long time is a solid mass of white..... 50 5 00

**VITEX AGNUS CASTUS,** a graceful shrub, growing from 5 to 6 feet high with dense spikes 6 to 8 inches long of lilac colored flowers..... 30 3 00  
 Strong plants 50 5 00

**WEIGELIA CANDIDA,** flowers pure white and produced in great profusion in June and the plants continue to bloom through the summer..... 30 3 00  
 Strong plants 50 5 00

**WEIGELIA COQUETTE,** strong grower and abundant bloomer. Large pink flowers, individual flowers often 2 inches in diameter. Blooms at intervals during the summer..... 30 3 00  
 Strong plants 50 5 00

**WEIGELIA DESBOISII,** a beautiful variety with deep rose colored flowers, one of the best..... 30 3 00  
 Strong plants 50 5 00

**WEIGELIA EVA RATHKE,** a charming variety, flowers brilliant crimson; a beautiful distinct clear shade..... 30 3 00  
 Strong plants 50 5 00

**WEIGELIA ROSEA NANA VAREIGATA,** leaves beautiful margined creamy white; flowers pink. It is a dwarf grower, and adapted to small lawns or gardens; 3 feet..... 30 3 00  
 Strong plants 50 5 00



Weigelia.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 that will produce an immediate effect when properly planted.



**HARDY CLIMBING PLANTS.**

**ACTINIDIA POLYGAMA.** A vigorous rapid-growing Japanese Vine. It has fragrant, creamy white flowers and handsome foliage, which are followed by clusters of edible fruit. An excellent plant for covering Arbors, Trellises, etc. . . . . 50c each; \$5.00 per doz.  
**AKEBIA QUINATA.** A beautiful Japanese climber, unique both in foliage and flowers. . . . . 35c each; \$4.00 per dozen.  
**AMPELOPSIS VEITCHII.** (Japan Creeper or Boston Ivy.) The leaves are small on young plants, which at first are of an olive green color, changing to red in the autumn. As the plant acquires age the leaves increase in size. Without question one of the very best climbing plants for covering brick or stone walls that can be grown. . . . . 25c each; \$2.50 doz.; by mail, 30c each.  
**AMPELOPSIS ROBUSTA.** A strong vigorous grower. It will make double the growth of the Veitchii and is just as hardy. . . . . 25c each; \$2.50 doz.; by mail, 30c each.

**AMPELOPSIS QUINQUEFOLIA.** (Virginia Creeper or American Ivy.) For covering walls, verandas and trunks of trees. A rapid grower with beautiful leaves that become rich crimson in autumn. . . . . 25c each; \$2.50 doz.; by mail, 30c each.

**ARISTOLOCHIA SIPHO.** (Dutchman's Pipe.) A magnificent hardy vine of rapid growth, with very large heart-shaped leaves, and brownish flowers, resembling a pipe. . . . . 50c each; \$5.00 doz.; by mail, 60 cents each.

**BIGNONIA RADICANS.** (Trumpet Vine.) An old-time favorite. Flowers trumpet-shaped, bright scarlet. A rapid grower. Blooms almost continuously through the summer. . . . . 25c each; \$2.50 doz.; by mail, 30c each.

**CELASTRUS SCANDENS.** (Climbing Bitter Sweet.) Of rapid growth, light green foliage and yellow flowers during June, which are followed in the autumn with orange fruit. . . . . 25c each; \$2.50 per doz.

**HONEYSUCKLE—Aurea Reticulata.** Foliage beautifully variegated yellow and green with yellowish white fragrant flowers.

“ —**Monthly Fragrant or Dutch.** Blooms all summer.

“ —**Common Woodbine.** A strong, rapid grower; flowers very showy; red outside, buff within.

“ —**Halleana.** Nearly evergreen; flowers pure white, produced abundantly; fragrant like a jessamine.

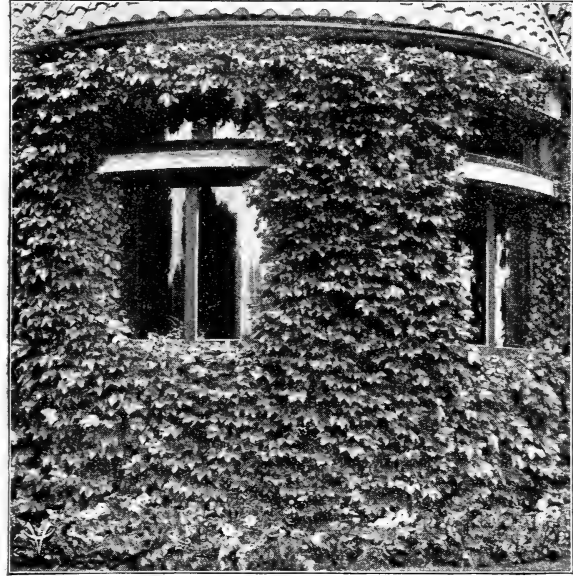
“ —**Scarlet Trumpet.** A rapid grower, and produces scarlet inodorous flowers all summer.

**Honeysuckle Plants, 25c each; \$2.50 dozen.**  
**By mail, 30c each.**

**IVY ENGLISH.** A valuable evergreen, used for covering walls, etc., also used for covering graves, especially if in the shade where grass will not succeed.

25c each; \$2.50 dozen. Large Plants, 50c each; \$5.00 doz  
**JASMINUM NUDFLORA.** Hardy only in sheltered places north of Cincinnati; admired for its fragrant yellow flowers. . . . . 30c each; \$3.00 dozen.

25c each; \$2.50 doz.; by mail, 30c each.



**Ampelopsis Veitchii.** (The Japan or Boston Ivy.)

**KUDZU VINE.** A rapid growing vine, attaining, after once being established, a height of 50 feet in one season. Its foliage is large and furnishes dense shade; it bears small racemes of rosy-purple, pea-shaped, fragrant blossoms in August and September.

**VITIS HETEROPHYLLA VARIEGATA.** A beautiful climber with dark green foliage, variegated with white and pink; during late summer and fall the plant is covered with small blue berries. Useful for trailing over rocks or for a low trellis. . . . . 30c each; \$3.00 per doz.

**CLEMATIS LARGE—FLOWERING.**

- DUCHESS OF EDINBURGH.** A free-flowering double white variety.
- GIPSY QUEEN.** One of the finest of the dark purple varieties. A strong grower.
- HENRYII.** Fine large, creamy white flowers. A strong grower and very hardy.
- JACKMANII.** The flowers, when fully expanded are from four to six inches in diameter; intense violet purple, with a rich velvety appearance, distinctly veined.
- JACKMANII RUBRA.** Bright carmine, the best red in cultivation.
- MADAME ED ANDRE.** Crimson; strong vigorous grower, and free bloomer.
- MISS BATEMAN.** White, with chocolate-red anthers.
- SEIBOLDI.** Silvery lavender; a most beautiful shade.

The above named Clematis, 50c each; \$5.00 doz.  
 Extra Strong Plants, 75c each; \$7.50 doz.  
 By mail, 10c each extra.



**Clematis.**

**CLEMATIS SMALL—FLOWERING.**

- COCCINEA.** Handsome bell-shaped flowers of a bright coral-red color from June until frost. . . . . 25c each; \$2.50 per doz.; by mail, 30c each.
- INTEGRIFOLIA DURANDI.** Semi-climbing habit, growing from 4 to 5 feet high, and producing from June until late fall showy indigo blue flowers 3 inches in diameter. A decided acquisition. . . . . 50c each; \$5.00 per doz.; by mail, 60c each.
- MONTANA GRANDIFLORA.** Flowers pure white; 1½ to 2 inches in diameter; begins flowering in April and continues through May, and are produced in such masses as completely hide the plant. The best early spring flowering climber, perfectly hardy. . . . . 50c each; \$5.00 per doz.; by mail, 60c each.
- PANICULATA.** A beautiful hardy blooming vine. The flowers are pure white, very fragrant, borne in large clusters. . . . . 30c each; \$3.00 per doz.; by mail, 40c each.



**Wistaria.**

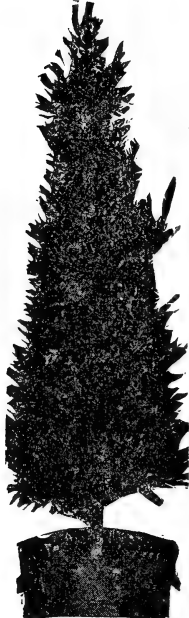
**CHINESE WISTARIA**

- WISTARIA SINENSIS.** The favorite variety, producing thousands of pendulous clusters of delicate violet blue blossoms richly perfumed. . . . . 50c each; \$5.00 per doz.
- WISTARIA SINENSIS ALBA.** Of similar habit to Sinensis with pure white flowers. 50c each; \$5.00 per doz. Can only be sent by Express or Freight.

# BAY TREE. (*Laurus Nobilis*.)

There is a large and increasing demand for Bay Trees, and they are being used more and more from year to year. There is nothing so effective for decorating entrance halls, piazzas, hotels, Italian gardens and inclosed courts, and they are always in keeping with such surroundings. We have on hand at all times a large stock of fine plants, perfect-shaped specimens of various sizes.

	Height of stem.	Diameter of Crown.	
Standard or Tree Shaped—	30 to 36 inches.....	24 inches.....	\$7 00 each
	42 to 45 inches.....	27 inches.....	10 00 "
	45 inches.....	28 to 30 inches.....	12 00 "
Specimen Trees, \$20.00 to \$25.00 each.			



Box, Pyramid Shape

**AZALEA ANTHONY KOSTER.** One of the prettiest of the Mollis section. Its intense golden orange-yellow flowers are of exceptional large size, and are produced very freely early in May; most useful to plant in front of the shrubbery or in connection with Rhododendrons; it also responds quickly to forcing when grown in pots, and can readily be flowered during the late winter and early spring months, at which time it will be found valuable for conservatory or house decoration. Strong, bushy plants, well set with buds. \$1.25 each; \$12.00 per doz.



Magnolia Soulangea.

## BOXWOOD TREES.

Trimmed in Pyramidal, Globe Shaped and Standard, or Tree Form.

There is a large demand for these beautiful decorative plants. They make beautiful specimens, foliage being dark olive green, and are desirable for many purposes, as they are not as expensive as Bay Trees, and can be used where Bay Trees are not admissible, as, on account of their hardiness, they will stand frost and cold. They are not only used as decorative plants for the same purposes as Bay Trees but are also used in formal outdoor planting, being perfectly hardy. Plants are sheared in beautiful pyramidal specimens and also in standard, or tree form.

<b>PYRAMID SHAPED.</b>	2 1/2 feet high,	\$2.00 each.	\$3.50 pair.
" "	3 feet high,	2.50 each.	4.50 pair.
" "	3 1/2 feet high,	3.00	5.50 pair.
" "	4 feet high,	4.00	7.50 pair.
" "	4 1/2 feet high,	5.00	9.00 pair.
" "	5 feet high,	7.00	12.50 pair.
<b>GLOBE SHAPED.</b>	1 1/2 feet high by 1 1/2 feet in diameter,	\$5.00 each.	
" "	2 1/2 feet high by 2 1/2 feet in diameter,	7.50 each.	
" "	3 feet high by 3 feet in diameter,	12.00 each.	
<b>BUSH SHAPED.</b>	1 to 1 1/2 feet high	40c each.	75c pair.
" "	2 feet high	\$1.50 each.	2.50 pair.
" "	2 1/2 feet high	2.00 each.	3.50 pair.

<b>STANDARD OR TREE SHAPED.</b>	Diameter of crown 18 to 21 inches,	\$3.50 each.	\$6.50 pair.
" "	Diameter of crown 21 to 24 inches,	5.00 each.	9.00 pair.
" "	Diameter of crown 30 inches,	7.50 each.	14.00 pair.
" "	Extra fine specimens,	\$10.00 to \$15.00 each.	

**BOX DWARF.** Used principally for borders and edging, for which purpose it is the best plant in cultivation. 4 to 6 inches, \$1.00 per doz.; \$6.00 per 100.  
10 to 12 inches, extra strong bushy plants, \$1.50 per doz.: \$10.00 per 100.

**AZALEA AMOENA.** A bushy dwarf evergreen with small green leaves that deepen to a lustrous coppery hue in winter. Its neat appearance is attractive at all seasons but in April or May the whole plant is a mass of brilliant rosy crimson flowers that hold their beauty three or four weeks. They are especially desirable for edging drives and walks, or for bordering Rhododendron and Kalmia beds.

The habit of this Azalea is so dense and compact that it makes splendid low flowering hedges, for which purpose we highly recommend it.

\$1.00 each; \$10.00 doz.



Azalia Mollis.

**AZALEA MOLLIS.** A splendid hardy species from Japan, and one of the most valuable flowering shrubs. Flowers large and showy, yellow and different shades of red, in fine trusses. 75c each; \$7.50 doz. Extra Strong Plants, \$1.00 each; \$10.00 doz.

**MAGNOLIA ALBA SUPERBA.** Its superb pure white flowers cover the tree in early spring. \$2.50 each; extra strong plants, \$5.00 each.

**MAGNOLIA ALEXANDRINA.** A chinese species of great beauty. The tree is of medium size, shrub-like in growth while young. The flowers are large pure white, very numerous, and appear before the leaves. \$2.50 each; extra strong plants, \$4.00 to \$5.00 each.

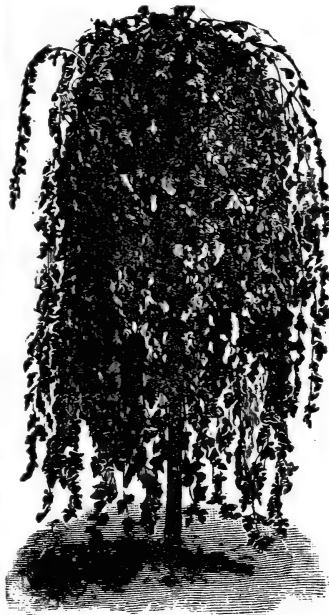
**MAGNOLIA HALLEANA.** (Stellata.) A pretty dwarf form that opens its snowy, semi-double flowers in April; earlier than any other Magnolia. Their fragrance is pronounced and delicate. \$2.50 each; 3 for \$7.00.

**MAGNOLIA LENNEI.** The flowers are of a deep rose color, the foliage large, vigorous and profuse bloomer, flowering at intervals through the summer. \$2.50 each; extra strong plants, \$4.00 to \$5.00 each.

**MAGNOLIA SOULANGEANA.** One of the hardiest and finest of foreign Magnolias. Its blossoms are from 3 to 5 inches across, cup-shaped, white and rosy violet, opening before its leaves, which are massive and glossy.

\$2.50 each; extra strong plants, \$4.00 to \$5.00 each.  
All of our Magnolias are on own Roots, and dug with ball of earth.

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



Mulberry Teas Weeping.

**JAPANESE MAPLES.**

There is not a dwarf tree in cultivation that can compare with the Japanese Maple for grace and beauty. They grow best in partially shaded situations, and require rich well drained soil.

In addition to being charming specimen lawn trees, they may also be grown in pots.

We have imported the following varieties direct, and offer them as long as stock lasts at following reasonable prices:

- POLYMORPHUM ATROPURPUREUM.** (Blood-leaved.) Leaves deep blood red all through the season.
  - " **ATROPURPUREUM. DISSECTUM** (Cut-leaved Purple.) Dark maroon, deeply serrated thread-like leaves with white variegations.
  - " **DISSECTUM.** (Cut-leaved Green.) Dark green richly fringed, thread-like leaves of drooping nature.
  - " **AUREUM.** Golden-leaved Japanese maple that is especially pretty in spring when the new leaves come out, later they fade to green.
- 2 to 3 ft., \$1.50 each; \$16.00 doz.  
Strong Specimen Plants, \$3.00 to \$5.00 each.

**HEDGE PLANTS.**

**BERBERIS THUNBERGII.** Where a low, dwarf, deciduous hedge is wanted nothing equals this beautiful Barberry. It is of spreading habit, growing extremely thick right from the base, and requires but little pruning to keep it in shape. The leaves are small light green, and toward fall assume rich, brilliant colors, the fruit or berries becoming scarlet. . . . . \$1.75 per doz.; \$12.00 per 100.



California Privet Hedge.  
with Catalpa Bungei on Terrace.

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

6 to 7 feet, \$1.50 each; specimen trees, \$2.50 to \$5.00 each.

**CHERRY JAPANESE WEEPING.** A compact weeping tree that makes a beautiful lawn specimen, and is so small that it can be used in very limited areas. The drooping branches almost meet the ground, and when they are hung with innumerable delicate pink flowers, there is nothing that surpasses it in beauty. 2 years head. . . . . \$1.75 each; \$15.00 doz.

**CORNUS FLORIDA PENDULA.** (Weeping White Dogwood.) An odd, handsome tree, adding to the other good qualities a distinct weeping habit, the central shoot growing erect. . . . . 4 to 5 ft., \$1.50 each; \$15.00 doz.

**HOLLY, ENGLISH.** (Ilex Aquifolium.) Dark glossy tree; prickly leaves, erect shapely habit. The berried twigs are familiar decorations at Christmas time, but most people do not know what splendid ornaments the trees are in open or collective planting. The flowers being unfertile in themselves it is necessary to plant several trees near each other to be sure of berries. . . . . 2 to 3 ft., \$1.50 @ \$2.50

**KALMIA LATIFOLIA.** (Mountain Laurel.) Bushy shrubs, with elongated oblong leaves, which are always fresh and glossy, in early spring, they bloom profusely. The delicate pink buds, open in large corymbs of pink and white flowers. They are useful for massing with Rhododendrons or for wooded effects. . . . . \$1.00 each; \$10.00 doz.

**MAHONIA AQUAFOLIA.** (Holly-Leaved Mahonia.) A native species of medium size, with purplish, shining leaves, and showy, bright yellow flowers succeeded by bluish berries. Its handsome glossy foliage and neat habit, render it very popular for decorative planting. 18 to 24 inches, 40c each; \$4.00 doz. 2 to 3 feet, 60c; each, \$6.00 doz.

**MULBERRY TEAS' WEEPING.** The most beautiful weeping tree of recent introduction. The slender branches grow downward parallel with the stem, forming an umbrella-like shape. It takes the foremost place among weeping trees; has beautiful foliage, is hardy enduring the cold of the north and the heat of the south, safe and easy to transplant. Admirably adapted for ornamenting small or large grounds, or for cemetery planting.

2 year-old heads, \$1.25 to \$1.50 each; specimens, \$3.50 to \$5.00.

**RHODODENDRON.** One of the most valuable of our hardy decorative plants. They require a good garden soil, which should be dug at least 2 feet deep and mixed with about equal portions of peat and leaf mould. They prefer a shady situation; it is also well to mulch the ground during the summer and protect with leaves or brush during the winter. Rhododendrons are most effective and easier cared for when planted in large beds or groups, so that their flowers may be displayed in rich masses.

Named hardy Hybrids. \$1.25 each; 3 for \$3.50. Extra strong plants, \$2.00 each; 3 for \$5.00



Rhododendron.

**CALIFORNIA PRIVET.** (Ligustrum Ovalifolium), of all ornamental hedge plants this is the most popular, and more of it is planted than all others combined. Its foliage is a rich dark green, and is nearly evergreen, remaining on the plant until mid-winter. It is of free growth and succeeds under the most adverse conditions, such as under dense shade of trees, where other plants would not exist. The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 to 15 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.

2 Year Old Plants 75c dozen; \$4.00 per 100.  
3 Year Old Plants \$1.00 dozen; \$6.00 per 100.

**OSAGE ORANGE,** this is still used extensively on farms and along highways. It makes a strong defensive hedge that will turn cattle, should be planted in double rows, 6 to 9 inches apart in a row.

Strong 2-year-old plants, 50c per 100; \$4.00 per 1000.

**SPIREA VAN HOUTTEI,** one of the most beautiful of all hedge plants. One mass of white when in bloom, and still beautiful in form and foliage, until frost removes the leaves.

18 to 24 inches, \$1.50 dozen; \$10.00 per 100.  
2 to 3 feet, \$2.00 dozen; \$12.00 per 100.

## EVERGREEN TREES.

### Large-Sized Specimen Evergreens.

We offer the following which have been grown in ample space and transplanted and are in the best condition to plant for immediate effect.

**ABIES Balsamea.** (Balsam Fir.) A regular symmetrical tree assuming the cone shape when quite young. Leaves dark green, lighter beneath;

2 to 3 ft. 75c; 3 to 4 ft. \$1.00 to \$3.00

“ **Bracyphylla,** A magnificent Japanese fir, with erect stem regularly whorled horizontal branches.

“ **Cilicia.** A beautiful tree with dark green foliage that are silvery white beneath.

Specimen Trees, \$4.00 to \$10.00

“ **Concolor.** (White Fir), a graceful rapid growing tree. It has broad soft foliage, bluish above and silvery beneath.

Specimen trees, 4 ft. \$5.00.

“ **Douglasi** (Douglas Spruce). A fine long lived tree from the Rocky Mountains, with soft green foliage which has a bluish tint when young.

2 to 3 ft. \$1.25; 3 to 4 ft. \$1.50 to \$3.00 each.

“ **Nobilis Glauca** (Noble's Silver Fir). A beautiful conifer with silvery blue foliage. It is particularly handsome in the spring.

Specimen Trees, 3 to 3½ ft. \$5.00 to \$7.50.

“ **Nordmanniana** (Nordmann's Fir). A thick dense tree. The needles are wide dark green, with a silvery under surface. One of the best evergreens.

Specimen Trees, 2 ft. \$1.50; 3 ft. \$4.00; 4 to 5 ft. \$5.00 to \$6.00; 6 ft. \$12.00 to \$15.00.

“ **Veitchii.** A magnificent tree of splendid habit. The needles are dark green above and silvery white beneath.

Specimen Trees, \$5.00 to \$8.00.

**CRYPTOMERIA, Lobbi.** A Japanese cedar, compact growing variety, with deep green foliage.

Specimen Trees, 4 ft. \$5.00 to \$7.00.

“ **Pungens,** Specimen Trees, 5 ft. \$5.00 to \$8.00.

**CUPRESSUS, Lawsoniana. Hollandia.**

Specimen Trees, 5 ft. \$5.00 to \$8.00.

**JUNIPERUS, Communis.** (English Juniper).

1½ to 2 ft. 75c; 2 to 3 ft. \$1.00

“ **Hibernia.** (Irish Juniper.) 1½ to 2 ft. 75c;

3 to 4 ft. \$1.25 to \$2.50

“ **Pfitzeriana,** Specimen Trees, \$5.00 to \$10.00.

“ **SABINA.** (Savin Juniper.) A thickly branched low spreading tree, with dark green foliage; valuable for rockeries; grouping and borders. 2 to 2½ feet. \$2.00; Specimen trees, \$5.00 to \$10.00.

**JUNIPERUS SABINA TAMARAXIFOLIA.** (Tamarax Leaved Savin.) Specimen trees, 4 to 5 feet, \$3.00 to \$6.00.

“ **VIRGINIANA.** (Red Cedar.) 2 to 3 ft., 75c; 3 to 4 ft., \$1.00; 5 to 6 ft., \$2.00.

“ **VIRGINIANA CANNARTI.** Specimen trees, \$5.00 to \$7.00.

“ **SCHOTTEI.** (Blue Virginia Cedar.) Beautiful blue glaucous foliage, specimen trees, 4 to 5 ft. \$5.00 to \$8.00.

“ **SCHOTTEI.** A distinct variety of pyramidal habit, with light green foliage, 2 to 3 feet, 75c.

Specimen trees, \$1.50 to \$8.00.

**PICEA ALCOCKIANA.** Slender branches and upright growth, with short dark green needles, that are silvery blue on their under surface.

Specimen trees, 4 to 5 ft., \$6.00.

“ **EXCELSA.** (Norway Spruce.) A rapid vigorous growing tree, with dark green foliage, 2 to 3 ft., 75c; 3 to 4 ft., \$1.00;

4 to 5 ft., \$1.50 to \$2.50

“ **EXCELSIA COMPACTA.** Very attractive; compact and distinct.

Specimen trees, \$4.00.

“ **REMONTII.** Dwarf compact variety with dark green foliage.

Specimen trees, 1 to 2 ft., \$1.50 to \$4.00.

“ **OMORIKI.** A tall and distinct fir, with shining green needles.

Specimen trees, 4 ft., \$5.00; 5 ft., \$6.00.

“ **ORIENTALIS.** Habit compact and symmetrical, forming a shapely pyramidal tree, with short dark green needles.

Specimen trees, \$2.50 to \$5.00.

“ **PUNGENS GLAUCA KOSTERIANA.** (Koster's Blue Spruce.) The finest ornamental evergreen grown. The foliage is the purest blue. A vigorous grower and very symmetrical in form.

Specimen trees, 2 to 2½ ft., \$2.00 to \$4.00; 3 to 3½ ft., \$5.00 to \$7.50; 4 to 4½ ft., \$10.00.

“ **PUNGENS GLAUCA PENDULA.** (Koster's Weeping Blue Spruce.) Specimen trees, 2½ to 3 ft., \$7.00; 4 ft., \$10.00.

**PINUS AUSTRIACA.** (Austrian Pine.) A tall tree, with spreading branches heavily plumed, with long, stiff needles, 2 to 2½ ft., 75c.

“ **CEMBRA.** (Swiss Stone Pine.) A hardy slow growing tree of distinct conical habit.

2 ft., \$2.00.

“ **MUGHUS.** (Mugho Pine.) A unique alpine species; broader than its height, and sometimes almost prostrate. Valuable for planting on lawns, terraces, rockeries, etc.

10 to 12 inches, \$1.00; 18 to 24 inches, \$1.50 to \$2.50.

“ **RESINOSA.** (Red Pine.) An ornamental, hardy pine, with olive green needles; makes a splendid tree.

2 to 3 ft., 75c;

“ **STROBUS.** (White Pine.) A beautiful ornamental tree, also used for shade and shelter belts.

2 to 3 ft., \$1.00.

“ **SYLVESTRIS.** (Scotch Pine.) A strong grower, with spreading branches and short stiff needles, 2 to 3 ft., 75c; 3 to 4 ft., \$1.00.

**RETINOSPORA-FILIFERA.** A broad bushy tree, with dark green foliage in pendulous thread-like strings.

2 to 2½ ft., \$2.00; Specimen trees, 3½ ft., \$4.00.

**OBTUSA MAGNIFICA.** Of upright growth, splendid habit, suited for specimen planting, specimen trees, 3 ft., \$4.00;

**PISIFERA.** The slender branches are open and graceful. Foliage light green above, silvery beneath, 2 to 3 ft., \$1.50.

**PISIFERA AUREA.** Golden evergreen, light airy foliage, 2 to 3 ft., \$1.50; Specimen trees, 3 ft., \$3.50; 6 ft., \$6.00.

**PLUMOSA.** Light green feathery foliage, it stands shearing well, and is frequently pruned-becomes compact and dense.

Specimen trees, 2 ft., \$2.50.

**PLUMOSA AUREA.** A dense small sized graceful tree. The young growth is a bright golden yellow, which contrasts strongly with the deeper shades of the old foliage. 1½ to 2 ft., \$1.00; 2½ to 3 ft., \$1.50.

Specimen trees, 3 ft., \$3.50; 5 ft., \$5.00.

“ **PLUMOSA AUREA GLOBE-SHAPED**

Specimen trees, 2 ft., \$2.50.

**TAXUS CANADENSIS WASHINGTONIA.** A spreading bush, branches slender.

Specimen trees, 2 to 3 ft., \$4.00.

“ **CUSPIDATA.** A large handsome bush with numerous spreading branches; foliage deep glossy green above, pale yellowish green beneath.

Specimen trees, 1½ to 2 ft., \$4.00.

**THUYA OCCIDENTALIS.** (American Arbor Vitae.) Well known screen and hedge plant. 2 to 3 ft., 60c; 3 to 4 ft., \$1.00; 5 to 6 ft., \$2.00.

“ **OCCIDENTALIS COLUMBIA.**

Specimen trees, 4 ft., \$5.00.

“ **GLOBOSA NOVA.** Very dwarf and compact, grows naturally into a rounded almost ball-like form.

Specimen plants, 1½ ft., \$2.50.

“ **SPECIES RIVERS.**

Specimen trees, 4 ft., \$3.00.

“ **STANDISHII.** A pyramidal tree of graceful drooping habit with bright green foliage.

Specimen trees, 3 ft., \$3.00.

**TSUGA CANADENSIS.** (Hemlock Spruce.) A magnificent native tree that grows rapidly, and is very hardy. Naturally open, free and drooping in growth, but very dense when pruned, forming good specimen trees, hedges, or shelters.

2 to 3 ft., \$1.50. Specimen trees, 2 to 2½ ft., \$2.50; 3 ft. \$3.00.



**Picea Pungens Glauca Kosteriana.** (Koster's Blue Spruce.)

Specimen trees, 4 to 5 feet, \$3.00 to \$6.00.

“ **EXCELSA.** (Norway Spruce.) A rapid vigorous growing tree, with dark green foliage, 2 to 3 ft., 75c; 3 to 4 ft., \$1.00;

4 to 5 ft., \$1.50 to \$2.50

“ **EXCELSIA COMPACTA.** Very attractive; compact and distinct.

Specimen trees, \$4.00.

“ **REMONTII.** Dwarf compact variety with dark green foliage.

Specimen trees, 1 to 2 ft., \$1.50 to \$4.00.

“ **OMORIKI.** A tall and distinct fir, with shining green needles.

Specimen trees, 4 ft., \$5.00; 5 ft., \$6.00.

“ **ORIENTALIS.** Habit compact and symmetrical, forming a shapely pyramidal tree, with short dark green needles.

Specimen trees, \$2.50 to \$5.00.

“ **PUNGENS GLAUCA KOSTERIANA.** (Koster's Blue Spruce.) The finest ornamental evergreen grown. The foliage is the purest blue. A vigorous grower and very symmetrical in form.

Specimen trees, 2 to 2½ ft., \$2.00 to \$4.00; 3 to 3½ ft., \$5.00 to \$7.50; 4 to 4½ ft., \$10.00.

“ **PUNGENS GLAUCA PENDULA.** (Koster's Weeping Blue Spruce.) Specimen trees, 2½ to 3 ft., \$7.00; 4 ft., \$10.00.

**PINUS AUSTRIACA.** (Austrian Pine.) A tall tree, with spreading branches heavily plumed, with long, stiff needles, 2 to 2½ ft., 75c.

“ **CEMBRA.** (Swiss Stone Pine.) A hardy slow growing tree of distinct conical habit.

2 ft., \$2.00.

“ **MUGHUS.** (Mugho Pine.) A unique alpine species; broader than its height, and sometimes almost prostrate. Valuable for planting on lawns, terraces, rockeries, etc.

10 to 12 inches, \$1.00; 18 to 24 inches, \$1.50 to \$2.50.

“ **RESINOSA.** (Red Pine.) An ornamental, hardy pine, with olive green needles; makes a splendid tree.

2 to 3 ft., 75c;

“ **STROBUS.** (White Pine.) A beautiful ornamental tree, also used for shade and shelter belts.

2 to 3 ft., \$1.00.

“ **SYLVESTRIS.** (Scotch Pine.) A strong grower, with spreading branches and short stiff needles, 2 to 3 ft., 75c; 3 to 4 ft., \$1.00.

**RETINOSPORA-FILIFERA.** A broad bushy tree, with dark green foliage in pendulous thread-like strings.

2 to 2½ ft., \$2.00; Specimen trees, 3½ ft., \$4.00.

**OBTUSA MAGNIFICA.** Of upright growth, splendid habit, suited for specimen planting, specimen trees, 3 ft., \$4.00;

**PISIFERA.** The slender branches are open and graceful. Foliage light green above, silvery beneath, 2 to 3 ft., \$1.50.

**PISIFERA AUREA.** Golden evergreen, light airy foliage, 2 to 3 ft., \$1.50; Specimen trees, 3 ft., \$3.50; 6 ft., \$6.00.

**PLUMOSA.** Light green feathery foliage, it stands shearing well, and is frequently pruned-becomes compact and dense.

Specimen trees, 2 ft., \$2.50.

**PLUMOSA AUREA.** A dense small sized graceful tree. The young growth is a bright golden yellow, which contrasts strongly with the deeper shades of the old foliage. 1½ to 2 ft., \$1.00; 2½ to 3 ft., \$1.50.

Specimen trees, 3 ft., \$3.50; 5 ft., \$5.00.

“ **PLUMOSA AUREA GLOBE-SHAPED**

Specimen trees, 2 ft., \$2.50.

**TAXUS CANADENSIS WASHINGTONIA.** A spreading bush, branches slender.

Specimen trees, 2 to 3 ft., \$4.00.

“ **CUSPIDATA.** A large handsome bush with numerous spreading branches; foliage deep glossy green above, pale yellowish green beneath.

Specimen trees, 1½ to 2 ft., \$4.00.

**THUYA OCCIDENTALIS.** (American Arbor Vitae.) Well known screen and hedge plant. 2 to 3 ft., 60c; 3 to 4 ft., \$1.00; 5 to 6 ft., \$2.00.

“ **OCCIDENTALIS COLUMBIA.**

Specimen trees, 4 ft., \$5.00.

“ **GLOBOSA NOVA.** Very dwarf and compact, grows naturally into a rounded almost ball-like form.

Specimen plants, 1½ ft., \$2.50.

“ **SPECIES RIVERS.**

Specimen trees, 4 ft., \$3.00.

“ **STANDISHII.** A pyramidal tree of graceful drooping habit with bright green foliage.

Specimen trees, 3 ft., \$3.00.

**TSUGA CANADENSIS.** (Hemlock Spruce.) A magnificent native tree that grows rapidly, and is very hardy. Naturally open, free and drooping in growth, but very dense when pruned, forming good specimen trees, hedges, or shelters.

2 to 3 ft., \$1.50. Specimen trees, 2 to 2½ ft., \$2.50; 3 ft. \$3.00.

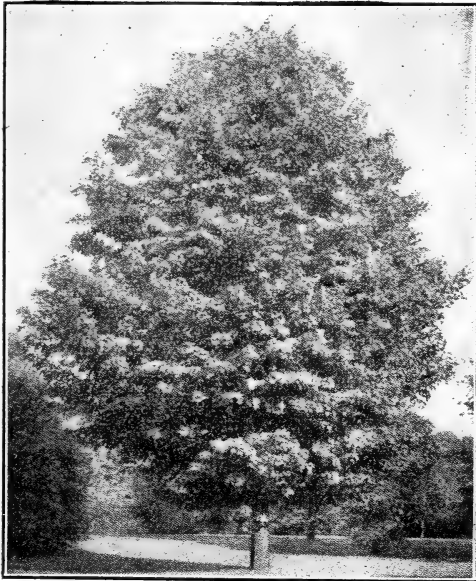
We shall be pleased to quote prices to any one desiring stock in different sizes or in larger quantities than we offer. Send list and state the number of each variety and size wanted.

We are prepared to furnish, at special prices; large specimen plants of several varieties of Ornamental Flowering Shrubs and Trees that will produce an immediate effect when properly planted.

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



# SHADE AND ORNAMENTAL TREES.



Sugar Maple.

## FOR LAWN, STREET AND FOREST PLANTING.

We enumerate below the principal varieties of Shade and Ornamental Trees, etc., all STRICTLY SELECTED STOCKS, and while our aim is to supply FIRST QUALITY only, still, on account of our ample stocks, we are in position to meet honorable competition on any size or quality; therefore it will be to your advantage to submit an estimate of your wants.

	Each.	Per Doz.
ALNUS, (Alder), European.....	12 to 14ft.	\$1 25
Imperial Cut-Leaved.....	10 " 12 "	1 50
ASH, American White.....	8 " 10 "	1 00
" " Green.....	12 " 15 "	1 50
" " ".....	10 " 12 "	1 00
European.....	12 " 14 "	1 25
" " ".....	8 " 10 "	1 00
Mountain.....	10 " 12 "	1 25
BEECH, Purple-Leaved.....	4 " 5 "	1 25
BIRCH, European White.....	10 " 12 "	1 25
" " Purple-Leaved.....	12 " 14 "	1 50
CATALPA, Speciosa.....	5 " 6 "	1 25
" " 1 1/2 to 2 in.....	8 " 10 "	75
" " 2 to 3 in.....		1 25
CERCIS CANADENSIS, (Red Bud).....	5 " 6 "	1 00
" " ".....	6 " 8 "	1 25
CHERRY Bird.....	6 " 8 "	75
James Veitch.....		1 50
Japan Double Flowering.....	4 " 5 "	1 25
CORNUS FLORIDA, (Dogwood), White Flowering.....	5 " 6 "	1 00
" " White Flowering.....	6 " 8 "	1 25
" " Red Flowering.....	3 " 4 "	1 25
CRAB APPLE, "Bechtell's," Double Flowering.....	4 " 5 "	1 00
CRAB APPLE, Parkmanni.....	4 " 5 "	1 00
CYPRESS, Deciduous.....	6 " 8 "	1 25
ELM, American.....	8 " 10 "	75
" " 1 1/2 to 2 in.....		1 50
" " 2 1/2 to 3 in.....		3 50
English.....	8 " 10 "	1 00
Scotch.....	8 " 10 "	1 00
1 1/2 to 2 in.....		2 00
HACKBERRY.....	6 " 8 "	1 00
HORSE CHESTNUT, White Flowering.....	6 " 7 "	1 50
Red Flowering.....	4 " 5 "	1 25
Amer. Buckeye.....	3 " 4 "	75
Dwarf.....	3 " 3 "	1 25
KENTUCKY COFFEE TREE.....	4 " 5 "	75
KOELREUTERIA PANICULATA.....	6 " 7 "	1 00

	Each.	Per Doz.
LABURNUM, Scotch.....	6 to 8ft.	\$1 00
LARCH, European.....	8 " 10 "	1 00
" " ".....	10 " 12 "	1 25
LINDEN, American 1 1/4 to 1 1/2 in.....	10 " 12 "	1 25
" " 2 to 2 1/2 in.....	8 " 10 "	2 50
European.....	8 " 10 "	1 25
1 1/2 to 2 in.....		1 50
Silver or White Leaf.....	8 " 10 "	1 25
LIQUIDAMBER, Sweet Gum.....	8 " 10 "	1 50
" " 1 1/2 to 2 in.....		2 00
MAPLE, Norway.....	8 " 10 "	1 25
" " 1 1/2 to 1 3/4 in.....		2 00
" " 2 to 2 1/2 in.....		3 00
Rock or Sugar.....	8 " 10 "	1 25
Scarlet.....	10 " 12 "	2 00
Weir's Cut-Leaved.....	5 " 6 "	1 25
Silver or Soft.....	8 " 10 "	1 00
" " 1 1/2 to 2 in.....		75
" " 2 to 2 1/2 in.....		1 25
Cork Bark.....	8 " 10 "	2 00
Schwedleri.....	8 " 10 "	1 25
Ash-Leaved (Box Elder).....	8 " 10 "	2 00
" " 1 1/2 to 2 in.....		75
" " 2 to 2 1/2 in.....		1 00
Sycamore.....	8 " 10 "	1 50
10 " 12 "		1 00
OAK, Red 1 1/4 to 1 1/2 in.....		2 00
" " 1 1/2 to 2 in.....		2 50
Scarlet.....	8 " 10 "	1 50
" " 1 1/2 to 2 in.....		2 50
Pin.....	8 " 10 "	1 50
" " 1 1/2 to 2 in.....		2 50
Burr or Mossy Cup.....	8 " 10 "	1 50
" " 1 1/2 to 2 in.....		2 50
Chestnut 2 to 2 1/2 in.....		3 00
Golden.....	10 " 12 "	3 00
OAK, White 1 1/4 to 1 1/2 in.....		1 75
" " 2 to 2 1/2 in.....		3 00
English.....	8 " 10 "	1 50
" " 1 1/2 to 2 in.....		2 00
" " 2 1/2 to 3 in.....		12 " 15 "
OLIVE, Russian.....	8 " 10 "	3 00
Paulownia Imperialis (Empress Tree).....	4 " 5 "	1 00
PEACH, Clara Meier Double Red, extra fine.....		1 00
Double Flowering, Red.....	4 " 5 "	1 50
White.....	4 " 5 "	60
PERSIMMON, American.....	8 " 10 "	60
POPLAR, Carolina.....	8 " 10 "	75
" " 1 1/2 to 1 3/4 in.....		60
Balsam, (Balm of Gilead).....	2 to 2 1/2 in.	1 00
" " 3 to 4 in.....		1 50
Golden Aurea 2 to 2 1/2 in.....		2 50
Lombardy.....	10 " 12 "	1 50
PRUNUS PISSARDI, Purple Leaf Plum.....	5 " 6 "	75
SALISBURIA, Maiden Hair or Ginkgo.....	8 " 10 "	75
SYCAMORE, American.....	8 " 10 "	1 00
" " 1 1/2 to 2 in.....		1 00
" " 2 to 2 1/2 in.....		1 50
European.....	8 " 10 "	2 50
10 " 12 "		1 00
THORN, Paul's Scarlet.....	3 " 4 "	1 50
" " White.....	3 " 4 "	75
Coccinea (Scarlet).....	4 " 5 "	75
TULIP TREE.....	8 " 10 "	75
" " 1 1/4 to 1 1/2 in.....		1 00
" " 1 1/2 to 2 in.....		1 25
12 " 14 "		1 50

### WEeping TREES.

BEECH, Pendula.....	8 " 10 "	3 00
Birch, Cut-Leaved.....	8 " 10 "	1 50
Cherry, Japanese.....	2 years.	1 75
Cornus Pendula, (Dogwood).....	4 " 5 "	1 50
Elm, Camperdown.....	2 years.	1 00
Mountain Ash.....	2 years.	1 00
Willow, Kilmarnock.....	4 " 6 "	1 00
Babylonica.....	8 " 10 "	75

### NUT BEARING TREES.

Almonds, Soft Shell.....	4 " 5 "	50
Chestnuts, American.....	5 " 6 "	50
" " ".....	6 " 8 "	60
Spanish.....	2 " 3 "	60
Japan.....	3 " 4 "	1 00
Filbert, English.....	3 " 4 "	50
Hickory, Shell Bark.....	2 " 3 "	1 00
Pecans.....	5 " 6 "	75
" " ".....	6 " 8 "	1 00
Walnuts, English.....	2 " 3 "	50
Black.....	6 " 8 "	75
Japan.....	5 " 6 "	75
White (butternut).....	6 " 8 "	75

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



# FRUIT TREES, SMALL FRUITS, GRAPE VINES, ETC.

**B**ELECT thrifty young trees in preference to old or very large ones; the roots are more tender and fibrous and they bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form, and in the course of a few years will usually outstrip the older ones in growth. If not prepared to plant when your stock arrives, "heel in" by digging a trench deep enough to admit all the roots and setting the trees therein, carefully pack the earth about the roots taking up when required. Never leave the roots exposed to the sun and air.

SENT BY EXPRESS OR FREIGHT AT EXPENSE OF PURCHASER.

## APPLES.

Standard.

We can furnish all varieties usually catalogued, but the following list comprises the most desirable sorts. Three years old, 5 to 7 feet high, 40c each; \$4.00 per dozen.

### SUMMER VARIETIES.

**EARLY HARVEST.** Pale yellow, fine flavor; August.  
**GOLDEN SWEET.** Pale yellow, sweet and good; August.  
**KESWICK CODLIN.** Large pale yellow, pleasant; August.  
**OLDENBURG (DUCHESS OF OLDENBURG.)** Large, striped red over a greenish yellow ground.  
**RED ASTRACHAN.** Large, crimson, juicy, with rich sub-acid flavor; hardy. July.  
**SWEET BOUGH.** Large, pale yellow, tender, sweet.  
**YELLOW TRANSPARENT.** Pale yellow, good quality.

### AUTUMN VARIETIES.

**FALL PIPPIN.** Very large, yellow, rich, aromatic.  
**GRAVENSTEIN.** Large, striped, fine quality. September and October.  
**MAIDEN'S BLUSH.** Large, beautiful, blush cheek.  
**RAMBO.** Yellow, streaked with red; October to December.  
**RED BEITIGHEIMER.** Pale cream, covered with crimson.  
**WESTERN BEAUTY.** Large, yellow shaded with carmine in the sun. Excellent quality.

### WINTER VARIETIES.

**BALDWIN.** Large, dark red, productive.  
**BEN DAVIS.** Large, handsome, striped; good quality.  
**GANO.** Deep red, fine quality; good shipper and keeper.  
**GOLDEN RUSSET.** Medium, dull russet, crisp, juicy.  
**GREENVILLE.** Large, yellow with red cheek; fine quality.  
**GRIMES GOLDEN PIPPIN.** Medium to large, skin golden yellow, flesh crisp, tender, juicy, long keeper.  
**JONATHAN.** Medium, red and yellow, flesh tender, juicy and rich.  
**NORTHERN SPY.** Large, striped red; good keeper.  
**RAWLE'S JANET.** Medium, yellow striped with red, rich, crisp and juicy; a long keeper.  
**ROME BEAUTY.** Large, yellow shaded red, tender.  
**SMITH'S CIDER.** Medium, tender and juicy; sub-acid.  
**WEALTHY.** Large, round, skin smooth, splashed dark red; flesh white, tender, juicy, sub-acid.  
**WHITE PIPPIN.** Large, pale yellow, rich sub-acid.  
**WINE SAP.** Medium, deep red, rich, sub-acid.  
**YORK IMPERIAL.** Medium, yellow shaded red, firm, juicy, sub-acid. An excellent shipping apple.

## CRAB APPLES.

5 to 7 feet, 40c each; \$4.00 per dozen.

**HEWES CRAB FOR CIDER.** Best cider crab grown.  
**YELLOW SIBERIAN.** Golden amber, with red blush in sun.  
**HYSLOP.** Deep crimson, very popular on account of its large size, beauty and hardness.

**TRANSCENDANT.** Skin yellow, striped with red.

**WHITNEY.** Large, glossy green, splashed carmine, firm, juicy, great bearer, excellent for cider.

## CHERRIES.

Heart and Bigarreau (Sweet.)

5 to 7 feet, first-class, 50c each; \$5.00 per dozen.

**ALLEN.** Large, nearly black, very meaty and firm productive and excellent quality.  
**BLACK TARTARIAN.** Very large, purplish black, juicy, rich, excellent, productive; last of June.  
**GOVERNOR WOOD.** Large, light red, juicy, rich, delicious. Tree healthy and productive; June.  
**NAPOLEON.** Large, pale yellow, firm, juicy, productive.  
**ROCKPORT BIGARREAU.** Large, yellow, juicy and sweet.  
**WINDSOR.** Large, liver colored, fine quality.  
**YELLOW SPANISH.** Large, pale yellow with light red cheek; late June.

Duke and Morello (Sour.)

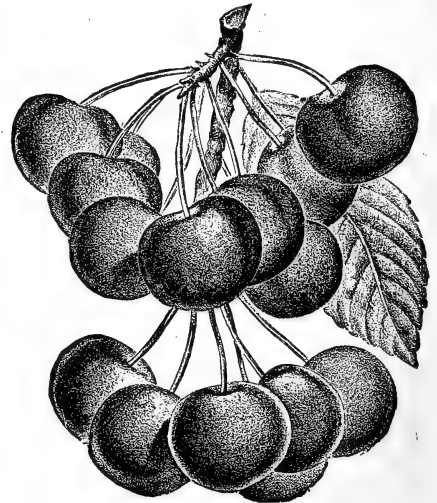
4 to 6 feet, first-class, 50c each; \$5.00 per dozen.

**DYHOUSE.** A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.  
**EARLY RICHMOND.** Medium, dark red, fine quality.  
**ENGLISH MORELLO.** Dark red, rich, acid, juicy, and good.  
**MAY DUKE.** Large, red, an excellent variety.  
**MONTMORENCY.** Large, red, fine flavor; finest acid cherry.  
**OLIVET.** Large, red, tender, rich; sub-acid flavor.  
**REINE HORTENSE.** Large, bright red, tender, juicy, nearly sweet.

## PEACHES.

5 to 6 feet, 30c each; \$3.00 per dozen.

**CHAMPION.** Creamy white with red cheeks, freestone, excellent quality; early in August.  
**CRAWFORD'S EARLY.** Large, yellow, of good quality, freestone; early in September.  
**CRAWFORD'S LATE.** Large, yellow with red cheek, freestone; last of September.  
**EARLY RIVERS.** Large, creamy white, with pink cheeks; early in August.  
**ELBERTA.** Large, yellow with red cheeks, flesh yellow; firm, juicy, of high quality, very prolific; September.  
**FITZGERALD.** Large, yellow suffused with red, flesh deep yellow, best quality, hardy and productive; early September.  
**HEATH CLING.** Large, flesh white, juicy and melting; Oct.  
**MOUNTAIN ROSE.** Large; handsome red cheek, flesh white, juicy; one of the best; August.  
**OLD MIXON CLING.** Large, yellow with red cheek; Sept.  
**OLD MIXON FREE.** Large, yellow with red cheek; Sept.  
**SALWAY.** Large, creamy yellow, with crimson cheek; Oct.  
**SMOCK'S FREE.** Large, yellow, very productive; late September.



## PLUMS:

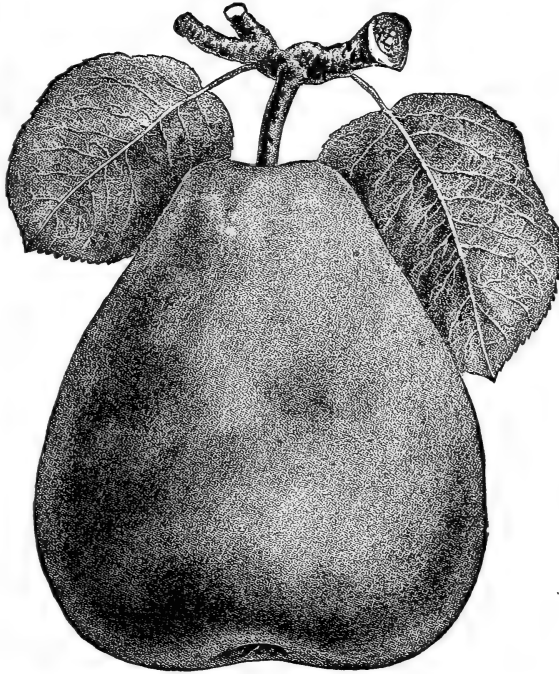
Standard.

**ON PLUM STOCKS, 5 to 7 feet, 50c each; \$5.00 per dozen.**

**ABUNDANCE.** Large, yellow with heavy bloom, good quality, very prolific.  
**BEAUTY OF NAPLES.** Medium size, green with purple cheek; abundant bearer.  
**BURBANK.** The largest and best variety; color red; excellent quality; hardy and vigorous grower.  
**DAMSON.** Small, oval fruit, purple, hardy, productive.  
**GERMAN PRUNE.** Medium, oval fruit, purple, fine quality.  
**GREEN GAGE.** Small, delicious, very prolific, fine quality.  
**LOMBARD.** Medium, red, juicy, hardy and productive.  
**PURPLE EGG.** Rich purple, fine flavor, best market variety.  
**RED JUNE.** Large, red, fine quality; strong, vigorous grower. Finest extra early plum.  
**SHIPPER'S PRIDE.** Large, purple, fine, juicy and sweet.  
**WILD GOOSE.** Medium, purple, flesh juicy and sweet.

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

FRUIT TREES, SMALL FRUITS, ETC.—Continued.



Lawrence Pear.

**BLACKBERRIES.**

50c per dozen; \$3.50 per 100.

**ANCIENT BRITON.** Large fruit, stems loaded with good sized berries of fine quality; vigorous grower; one of the best of the hardy varieties.

**BLOWER.** Large luscious berries, of finest quality. One of the hardest and most productive.

**EARLY HARVEST.** Compact dwarf grower, productive; fruit medium size of fine quality. One of the first to ripen.

**ELDORADO.** Large fruit, borne in large clusters and ripen well together, fine quality, good keeper and shipper, vigorous grower and hardy.

**MERSEREAU.** Extremely hardy, berries large; extra quality, sweet rich and melting without core, good keeper and shipper, strong vigorous grower.

**RATHBUN.** A strong erect grower with strong stem, branching freely. Fruit very large, sweet and luscious, without hard core, heavy cropper.

**SNYDER.** Medium size sweet and juicy, extremely hardy and very productive.

**TAYLOR.** Medium size fruit of fine flavor, extremely hardy and very productive; ripens late.

**WARD.** A strong vigorous grower, producing fine large fruit of excellent quality, hardy and very productive.

**DEWBERRY.**

**LUCRETIA.** One of the low-growing, trailing blackberries. In earliness, size and quality, it equals any of the tall-growing sorts. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family.  
50c per doz.; \$3.00 per 100.

**MULBERRIES.**

5 to 6 feet, 60c each; \$6.00 per dozen.

**DOWNING'S EVERBEARING.** One of the most prolific varieties, bearing an abundance of large, black, sub-acid fruits, hardy; fruits about three months.

**NEW AMERICAN.** An everbearing variety; large fruit of the finest flavor, hardy; fruits about three months.

**GOOSEBERRIES.**

**DOWNING.** Large, handsome, pale green, and of splendid quality for both cooking and table use; bush a vigorous grower, and usually free from mildew. . . . . 20c each; \$2.00 per doz.

**HOUGHTON'S.** Small to medium; roundish, oval, pale red, sweet, tender, very good; plants spreading; shoots slender, enormously productive. . . . . 15c each; \$1.50 per doz.

**INDUSTRY.** Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe. Strong upright grower, an immense cropper, less subject to mildew than most of the foreign varieties. The best known and most successful English sort. . . . . 25c each; \$2.50 per doz.

**SMITH'S IMPROVED.** Large, pale greenish yellow, skin thin, of excellent quality, being unsurpassed by any other variety for table use or cooking; bush moderately vigorous and excessively productive. . . . . 20c each; \$2.00 per doz.

**PEARS.**

Standard and Dwarf.

6 to 7 feet, first-class, 50c each; \$5.00 per dozen.

**BARTLETT.** Large, clear yellow juicy. August.

**DORSET.** Large, handsome, showy, late, good quality. Feb.

**FLEMISH BEAUTY.** Large, juicy, rich and fine; September to October.

**HOWELL.** Large, yellow, splendid quality. September.

**KIEFFER'S HYBRID.** Large, rich color and good quality.

**LAWRENCE.** Yellow, thickly dotted, fine flavor.

**SECKEL.** Small, yellowish brown, one of the best.

**SHELDON.** Large, round russet-red. October.

**TYSON.** Large, yellow with brown cheek, sweet

**WILDER.** Yellow with red cheek, fine quality.

**QUINCES.**

4 to 5 feet, 50c each; \$5.00 per dozen.

**MEFCH'S PROLIFIC.** Fruit bright yellow; flesh very fragrant and tender. October.

**ORANGE.** Large, bright golden yellow, fine quality; flesh firm, cooks tender. October.

**GRAPE VINES.**

All Two-Year Old Selected Stock.

Black or Purple Grapes.

**CAMPBELL'S EARLY.** Bunch and berry large, glossy black, sweet and juicy; fine quality. . . . . 25c each; \$2.50 doz.

**\*CONCORD.** Large, black grape, hardy and productive; juicy and sweet. . . . . 10c each; \$1.00 doz.

**EATON.** Bunch and berries very large, skin black and finest quality. . . . . 25c each; \$2.50 doz.

**\*IVES' SEEDLING.** Dark purple, sweet. . . . . 10c each; \$1.00 doz.

**MOORE'S EARLY.** Ripens ten days earlier than Concord; bunch and berry round and large. . . . . 15c each; \$1.50 doz.

**WORDEN.** Larger than Concord in bunch and berry; excellent flavor. . . . . 15c each; \$1.50 doz.

Red Grapes.

**BRIGHTON.** Bunch large, berries large, red, round, excellent flavor; one of the earliest. . . . . 15c each; \$1.25 doz.

**\*CATAWBA.** Berries large, round; when ripe a dark copper color; sweet, rich, mussy flavor. . . . . 10c each; \$1.00 doz.

**DELAWARE.** Small, light red, thin skin, very juicy, sweet, sprightly, fine flavor. . . . . 15c each; \$1.50 doz.

**VERGENNES.** Clusters and berries; large amber colored fruit; rich and delicious, good keeper. . . . . 15c each; \$1.50 doz.

White or Yellow Grapes.

**GREEN'S EARLY.** Nearly as large as Niagara, of fine quality and ripening before Moore's Early. An excellent shipper. Berries white. . . . . 20c each; \$2.00 doz.

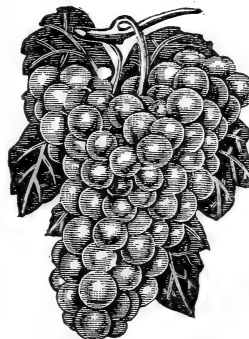
**MARTHA.** Large, pale yellow; strongly resembles the Concord in all points except color. . . . . 15c each; \$1.50 doz.

**\*MOORE'S DIAMOND.** White, good sized berries, juicy and sweet. . . . . 15c each; \$1.50 doz.

**NIAGARA.** Vine remarkably hardy and strong grower; bunches very large and compact; berries large, light greenish white, slightly ambered in the sun; skin thin but tough, and does not crack. . . . . 10c each; \$1.00 doz.

**POCKLINGTON.** A seedling of the Concord, resembling that variety in leaf, vine, habit of growth, hardness and productiveness. Bunch and berry very large; attractive golden yellow color. . . . . 15c each; \$1.25 doz.

Varieties marked with a \* are best for arbors.



## FRUIT TREES, SMALL FRUITS, ETC.—Continued.

## CURRANTS.

Two-Year Old Plants.

**BLACK CHAMPION.** Large bunch and berry, excellent quality, strong grower, very productive.

15c each; \$1.25 doz.

**CHERRY.** Fruit large, bunch small, deep red, acid.

10c each; \$1.00 doz.

**FAY'S PROLIFIC.** Extra large stems and berries, color rich red, fine quality, very productive.

15c each; \$1.25 doz.

**PERFECTION.** A cross between Fays and White Grape retaining the valuable characteristics of both parents. Beautiful, bright red, as large or larger than Fay's, holding its size to end of bunch; easy to pick; a great bearer, superior to any other large sort; less acid and of better quality than any other large currant in cultivation, large healthy foliage, intermediate in growth between Fay's and White Grape. Keep well cultivated and fertilized they will regularly produce heavy crops of extra size fruit of the very best quality.

25c each; \$2.50 doz.

**POMONA.** Bright red, extra fine quality and enormously productive; strong vigorous grower 15c each; \$1.25 doz.

**RED DUTCH.** An old favorite variety with large red berries.

10c each; \$1.00 doz.

**WHITE GRAPE.** Large, yellowish white, sweet, excellent quality and valuable for the table.....15c each; \$1.50 doz.

## RASPBERRIES.

50 cts. per Dozen; \$2.50 per 100, except where noted.

**BRANDYWINE.** Large size, light crimson color, good quality and firm, vigorous and productive. One of the best, well-tested, large early berries for the North.

**COLUMBIAN.** The fruits are cone shaped of dark red, almost purplish color, rich sprightly flavor; unrivalled for canning, making jam, etc. Bush wonderful for vigor of growth and productiveness attaining a very large size and producing immense crops.

**CUMBERLAND.** The largest black cap; a healthy, vigorous grower; very productive and of finest quality.

**CUTHBERT.** Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous, perfectly hardy and very productive. Ripens medium to late.

**EATON.** Hardy and strong grower, berries red, large, handsome, firm and highest quality, solid and good keeper.

10c each; \$1.00 per doz.

**GOLDEN QUEEN.** Berries large, golden yellow, bright and firm, and of fine, rich flavor; vigorous, productive and healthy.

**GREGG.** A large black variety, fruit firm, of excellent quality and a good shipper.

**HAYMAKER.** A purple cap variety, berries large and firm, never crumbles and stands up well in shipping.

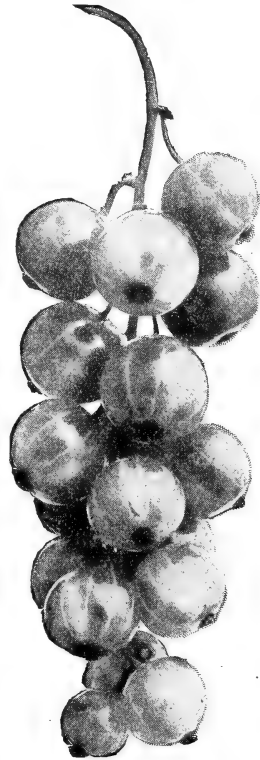
**KING.** The earliest Red Raspberry; berries round, medium size, light crimson and excellent quality.

**KANSAS.** The hardest black cap; strong, vigorous grower; very prolific and good quality.

**LOUDON.** The best red, mid-season berry; fruit large, of a beautiful, rich, dark crimson color, good quality and marvelous productiveness and hardness. [Will remain on bushes the longest without injury.]

**RUBY.** Fruit large, bright red, exceedingly firm, excellent quality, strong grower, early.

**DISTANCES FOR PLANTING.** Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, rows 6 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart, 3 feet in rows. Strawberries, for field culture, rows 3 to 3½ feet apart, 1 to 1½ feet in rows; for Garden Culture, plant in beds 4 feet wide, 3 rows in each bed, plants 1 foot apart in rows.



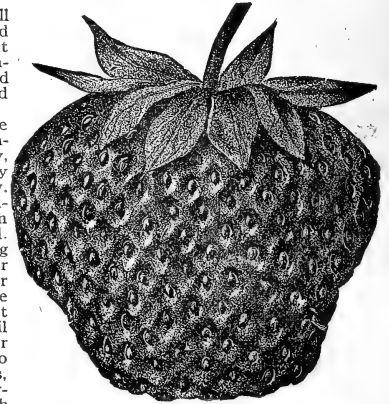
Perfection Currant.

## STRAWBERRIES.

Strawberries will succeed in any good garden soil. It should be thoroughly prepared to a good depth, well drained and enriched.

For garden culture set in rows 15 inches apart each way, leaving pathway every third row. Ground should always be kept clean and well cultivated.

In winter a covering of leaves, straw or some kind of litter will protect the plants. Do not cover them until ground is frozen or so deep as to smother the plants, and remove covering before growth starts in spring. Mulching will keep the fruit clean and the soil in good condition through the fruiting season.



The blossoms of those marked with (P) are destitute of stamens and are termed pistillate, and unless a row of perfect flowering variety is planted at intervals not exceeding about a rod, they will produce imperfect fruit and but little of it; but when properly fertilized as a rule they are more prolific than those with perfect flowers.

**Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out. Neglect for an hour or so is often fatal.**

25 cts. per Dozen; \$1.00 per 100; \$7.50 per 1,000.

**BRANDYWINE.** A fine, large, late, handsome, productive berry of excellent quality; regular conical form; dark, glossy red, extending to the center. Plant healthy and vigorous, abundant producer.

**BUBACH'S NO. 5 (P).** Its large and uniform size, fine form and color, unsurpassed productiveness and great vigor combining to make it the leading market sort.

**CARDINAL (P).** This Strawberry surpasses all in size of plant and abundance of runners; fruit stalks tall and robust, bearing fruit well off the ground; color, beautiful cardinal red all the way through; slightly acid. Does well everywhere.

**CLYDE.** Large, light scarlet color; conical shape; very productive, good quality.

**GANDY.** One of the best late varieties. Berries large, of fine form and excellent quality. Flesh firm, good shipper.

**GLEN MARY.** Large to very large, sometimes flattened; sweet, rich, delightful. Plants vigorous, extra-fruitful of fine berries that hold their size to the end of the season.

**HAVERLAND (P)** Very productive of medium to large, conical berries that are smooth, regular, mildly sub-acid. Early and one of the most valuable market sorts.

**JESSIE.** Berries large, handsome, dark red. The plant is vigorous, healthy, with strongly staminate blooms; a good pollinizer for imperfect-flowering sorts.

**NICK OHMER.** A fine, fancy market berry and always superb for the table. A giant in size; it is yet deep red all through, globular, high-flavored, delicious.

**SENATOR DUNLAP.** Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center. Firm in substance, excellent in quality. Begins to ripen with the earliest and continues nearly a month.

**WARFIELD (P).** Great beauty, firmness, earliness, productiveness and vigor make this berry most popular.

**WM. BELT.** Berries very large, conical, bright red, of good flavor. The plant is strong, healthy, very fruitful. Season medium to late.

# FERTILIZERS.



## EXCELSIOR PLANT FOOD.

An Odorless preparation, combining in a concentrated and soluble form every element required in plants and flowers to produce vigorous growth and a profusion of flowers and fruit. **Wonderful results are obtained, after one or two applications.** It is immediately soluble in water, and, available to plant life from the moment of application.

It assists in retaining moisture, will mature plants from two to three weeks earlier. Where the plant food has been used - Boll Weevil, cut worms, wire worms, cannot live. Sold in powdered form and is used by dissolving in water.

Trial package, 15 cts.; By mail 20 cts.

¼ pound package making 10 gallons. 20 cts.; By mail 30c postpaid.

1 pound package making 20 gallons. 35 cts. By mail 50c. postpaid.

5 pound package making 100 gallons, \$1.75

## EL PASO SHEEP MANURE.

This is a pure, natural manure, and nutritious food for plants. Its effect is immediate. It is the best of all manure for mixing with the soil for green-house plants. It makes the richest, safest and quickest liquid manure. Nothing equals it for use on flower beds or for the vegetable garden. **Especially valuable for lawns,** contains all the constituents for promoting a quick, luxuriant growth, and a rich green color. No raking off required. No seeds of foul weeds in it! No offensive odor! It is clean to handle! Absolutely safe to use in any quantity or in any manner.

**Directions**—For Lawn, use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble it readily makes a safe liquid manure—one pound to five gallons of water per day can be safely used.

Pulverized, per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; per ton \$30.00.

**Ashes—Hard Wood.** Drive away insects and improve the texture of the soil; indispensable for all crops requiring potash; very beneficial for garden and field crops, grass lands and lawns. **Apply 1 to 2 tons per acre.** 100 lbs., \$1.25; 200 lbs., \$2.00.

**Pure Bone Meal.** This finely pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly, and is more quickly effective than the coarser grade. It is excellent for mixing with soil for potting. Per lb., 5c; 10 lbs., 45c; 25 lbs., \$1.00. 50 lbs., \$1.50; 100 lbs., \$2.50; 200 lbs., bag, \$4.00; per ton \$35.00. For lawns, use at the rate of at least 500 lbs. per acre.

**Muriate of Potash.** A high-grade Fertilizer, and one of the best Orchard Fertilizers known; used largely in Peach cultivation and as a general Fertilizer. Muriate of Potash and ground bone stands as a leader. Lb., 5c; 25 lbs., \$1.10; 50 lbs., \$2.00; 100 lbs., \$3.50.

**Nitrate of Soda.** A natural product of the mines of Chili, South America. Contains 16 per cent Nitrogen, equal to 29 per cent ammonia. Per lb., 10c; 3 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.50; 100 lbs., \$4.50.

**Land Paster.** If applied as a top dressing for Grass or Clover crops in the spring, it greatly increases the growth and yield of same; sprinkled in stables, poultry houses and on manure piles it will prevent ammonia from vaporizing thereby greatly increasing the value of farm manure. On account of its economical usefulness and effectiveness it should be liberally used on every farm. 200-lb. bag, \$1.25.

**Ammoniated Bone Meal and Potash.** This is now the leading fertilizer, and is especially valuable for plants, potatoes and grain.

**ANALYSIS**—Nitrogen..... 2.47 to 3.29  
Ammonia..... 3 " 4  
Available Phosphoric Acid..... 6 " 8  
Potash (K<sub>2</sub>O)..... 2 " 3

5 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; 200-lb. bag, \$3.00; half ton, \$13.25; per ton, \$25.50.

**Pacific Nobque, General Crop.** For several years we have been handling this fertilizer, and the universal verdict from all who use it is "It is the best fertilizer we have ever used."

**ANALYSIS**—Ammonia..... 1¼ to 2¼ Per ct.  
Available Phos. Acid..... 8 " 10  
Potash (k<sub>2</sub>O)..... 2 " 3

5 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; 200 lb. bag, \$3.00; per half ton, \$13.00; per ton \$24.00.



A scientifically prepared powder for the fumigation of the soil. Its purpose is to destroy the many insect and other pests which live, or hibernate, in the soil and damage the crops.

Agriculturists have long sought for a true and perfect soil-fumigant, at once economical and certain. **Apterite** entirely realizes their requirements.

To the fruit grower the benefits to be derived from **Apterite** are enormous. Many of his worst pests hibernate in the soil, beyond the reach of the Winter Spray Fluids.

They can only be dealt with above ground after the insects have hatched in the spring, and then it is usually too late.

Among these may be mentioned Wolly Aphis, Wireworms, Codling and other Moths and various Flies and Midges.

These can now be destroyed in the soil during the winter and their depredations prevented.

**It is simple to apply, inexpensive, non-poisonous and harmless to man and beast.**

**Will not injure the most delicate plants, if used as directed.**

**Will not destroy soil bacteria.**

**Apterite** can be used at any time of the year, on any kind of soil, and by any one. It may also be applied to any kind of crop.

**For Root Crops and Cereals.** Sow before the plough, at the final ploughing, 2 to 3 cwt. per acre, and plough it in.

**For Bush Fruits, Roses, Shrubs, Etc.** Dig in 4 to 5 inches deep, 1 lb. to every six square yards.

When digging in is not practicable, dibble in about ¼ oz. around the stem, in holes 8 inches deep, and 6 inches apart.

**For Eelworms in Hops, Tomatoes, Cucumbers, Lettuce, etc.** Apply 2 to 3 cwt. per acre, or when growing these crops under glass add 1 lb. to every cubic yard of soil.

**Apterite should on no account be brought into actual contact with the growing plant.** 1 lb., 25c; 5 lbs., 75c; 112 lbs., \$6.00.

## MOSS, PEAT, ETC.

**Moss, Green Sheet.** For hanging baskets, etc.

Per bale, 40c; bundle of 5 bales, \$1.50; bag, \$1.50.

**Moss, Sphagnum.** For packing plants and growing Orchids, etc.

Per lb., 10c; per bale, \$1.25.

**Peat Jersey.** Rotted. Per bu. \$1.25; per bbl. \$2.75.

**Potting Soil.** This is a mixture specially prepared by us, and such as used at our own green houses. It is suitable for all ordinary plants and bulbs. Peck, 25c; bushel, 75c; bbl. \$1.50.

# INSECTICIDES AND FUNGICIDES.



The Insecticide that kills plant life of every species such as Green, Black and White Fly, Red Spider, Thrip, Slugs and Ants, Mealy Bug, White and Brown Scale.

½ pint, 40c.; pint, 65c; quart \$1.00; gallon, \$2.50

**APHIS PUNK.** A soft paper saturated with nicotine, rolled and dried. When lighted it burns slowly. For "smoking" conservatories, etc. Per box of 12 rolls, 60c; or by mail 70c.

**ARSENATE OF LEAD.** The most effective poisonous insecticide for leaf eating insects. It will not scorch, burn nor injure the most delicate foliage, but at the same time kills all kinds of leaf and fruit-eating insects. It sticks to the foliage to which it is applied throughout the season, no matter how frequent rains occur.

1 lb. jar, 25c; 2 lbs., 40c; 5 lbs., 85c; 12½ lbs., \$1.85; 25 lbs., \$3.50; 50 lbs., \$6.25; 100 lbs., \$11.00; 300 lbs., \$28.50; 600 lbs., \$51.00.

**BORDEAUX MIXTURE.** (Paste) A fungicide for curing and

preventing black rot, mildew, blight, leaf curl, scab, or other fungoid diseases on fruits and plants, ready for use by simply adding water. 1 lb., 20c; 5 lbs., 60c; 12½ lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$6.50.

**BORDEAUX LEAD ARSENATE MIXTURE.** (Paste) An

insecticide and fungicide combined in one, very effective product. Sticks well to the foliage, will not wash off by ordinary rains, and in this way the sprayer saves the expense in many instances of re-spraying. It remains in suspension a long time, consequently the poison is uniformly distributed and the best results obtained.

1 lb. jar, 25c; 2 lbs., 40c; 5 lbs., 85c; 10 lbs., \$1.50; 20 lbs., \$2.75; 45 lbs., \$5.00; 100 lbs., \$10.50; 300 lbs., \$47.50.

If sent by mail add 16c per pound for postage.

**INSECTICIDES AND FUNGICIDES--Continued.**

**COPPER SULPHATE.** For early spraying and making Bordeaux mixture. . . per lb., 10c; 10 lbs., 80c; 100 lbs., \$6.50.

**FIR TREE OIL.** For trees plants of the following insects: Mealy Bug, Scale, Red Spider, Aphis, Thrip, Blight Worms and Slugs; also a valuable remedy for animal parasites and insects. Dilute with soft or rain water. . . ½ pt., 50c; pt. 75c, qt. \$1.25.

**FIR TREE OIL SOAP.** This article contains no poison, yet is quite effective in destroying Red Spider, Mealy Bug, Aphis, etc. It can also be used in the garden against Potato Bugs, Cabbage Worms, Currant Worms, Black Fly, etc. ½ lb. tin, 25c; 2 lb. tins 75c.

**FISH OIL SOAP.** For destroying insects on plants, trees, vines, etc., for washing down the bark of trees, grape vines, etc. ½ lb., 10c; lb., 15c; 5 lbs., to 50 lbs., 12½c lb.; 50 lbs. or over 9c lb.

**GRAPE DUST.** A non-poisonous powder for the remedy and control of mildew and rot on grapes, Gooseberries, Roses, etc. Per lb., 10c; 5 lbs., 40c; 10 lbs., 70c.

**HELLEBORE POWDER WHITE.** For destruction of Slugs, Worms, Caterpillars, etc. . . . . ½ lb. tin, 15c; 1 lb., 25c.

**KEROSENE EMULSION.** One of the best insecticides for all soft bodied sucking insects, feeding openly so as to be within reach of actual contact, such as plant Lice, Flea, Beetles, Aphis, Green Fly, Mealy Bug, also for insects on fruit trees. 1 qt., 40c; gal., \$1.00.

**LIME, PREPARED.** It is thoroughly slacked; will not heat, swell or change, and is ready for immediate use for all purposes. . . . . 2 lb. pkg., 10c.

**LIME-SULPHUR SOLUTION.** For Fall, Winter and early Spring spray. Destroys San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphis, Blister Mite, any Scale insects or bark Lice. Lime and Sulphur Solution--If not exposed to air will remain in solution a long time; will not clog the spray pumps because it is free from sediment. 1 gallon will make 12 gallons spraying liquid. . 1 qt., 25c; ½ gal., 50c; 1 gal., 50c 5 gal., \$2.00; ½ barrel 25 gal., \$6.25; 1 barrel 50 gal., \$10.00.

**NICO-FUME.** Strips of paper strongly saturated with Nicotine. These, when suspended and lighted, make one of the best and simplest methods of fumigating greenhouses. Use 4 to 6 sheets for ordinary house 100 ft. long by 20 ft. wide. Price, air-tight cans, 24 sheets, 75c; post paid, 90c; 144 sheets, \$3.50; 288 sheets, \$6.50.

**NICO-FUME LIQUID.** One of the best compounds on the market, contains 40 per cent nicotine, and is sold at a very low price. . . ¼ pint, 50c; pint, \$1.50; ½ gal., \$5.50; gal., \$10.50.

**NICOTINIC FUMIGATING COMPOUND.** Used for destroying Green and Black Fly, Thrip, Mealy Bug, Red Spider, etc. Does not hurt the most tender plants in full bloom.

4 ounces, 70c; ½ pint, \$1.25; 1 pint, \$2.50  
Fumigating Pan and Lamp, 60c each.

**PARIS GREEN.** Warranted strictly pure. ¼ lb., 10c; 1 lb., 30c; 5 lbs., \$1.25.

**PERSIAN INSECT POWDER.** For Worms, Flies, Aphis, and almost all kinds of insects. . . . . ¼ lb., 15c; 1 lb., 50c.

**SLUG SHOT.** A non-poisonous powder and a very popular insecticide. Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, etc. Per lb., 10c; 5 lbs., 30c; 10 lbs., 50c.

If sent by mail add 16c per lb. for postage.

**SCALE DESTROYER, TARGET BRAND.** This preparation is a soluble, mineral oil, designed especially for destroying and preventing San Jose Scale. It is absolutely harmless to the most tender growth, and is instantly soluble in cold water. **Does not clog nozzles. Requires no boiling. Positively non-injurious to man and animals.** Cheaper than lime and sulphur.

It contains a resinous property which makes it adhesive, consequently it remains on the tree a long while after being sprayed. It has the advantage of not alone destroying the scale but it cleans off the bark of the tree thoroughly, increases to a large degree the foliage and general vitality of the same.

Endorsed by Experimental Stations and Commercial Fruit Growers.  
One Gallon Target Brand Scale Destroyer makes Twenty Gallons Dilution ready to apply.

1 qt., 35c; ½ gal., 65c; 1 gal., \$1.00; 5 gal., \$3.75; 25 gal., \$13.75; 50 gal., \$25.00.

**COOPER'S TREE SPRAY FLUID.**

They are highly concentrated, non-poisonous, are instantly soluble in cold water, harmless to the trees, easy to use, do not corrode or clog the nozzle, the solution being clear and free from sediment, are without risk or discomfort to the user, uniform in composition and reliable in action. Never deteriorates or weakens, however long kept, effective in the highest degree. When mixed with water, never becomes foul nor decomposes.

The best time for coping with the vast army of insect pests that afflict the orchard is when the trees are bare and dormant; because then the fluid can be applied so as to reach every part of the exposed surface, and also because it may then be used at a strength which would be unsuitable for trees in foliage.

**V1 FLUID is a Winter and Spring Spray only while the trees are dormant.** It kills the eggs of insects and the spores of fungi, mosses and lichens with which it comes in contact. It removes loose bark, lichens and mosses from the trees of every description, invigorates and cleanses the trees, leaving the trunks and branches clean and healthy. It does its work in fifteen minutes and if rain follows after that interval, it can do no harm. It kills completely and not partially.

One Gallon will make 100 Gallons of Spraying Fluid.

1 qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00. It kills instantly Aphis, Psylla, and scale insects.

It kills instantly Aphis, Psylla, and scale insects. One gallon will make 100 gallons of spraying fluid. . . . . quart, \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00.

**V3 Fluid.** For leaf eating insects—especially valuable for protecting and invigorating the growth of all vegetables as it destroys all insect life with which it comes in contact, including Rose and Potato Bugs, Cabbage Worm, etc. One gallon will make 100 gallons of spraying fluid. . . . . 1 qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00.

**SULPHUR, POWDERED.** Used to prevent and cure mildew on plants. . . . . 10c lb.; 2 lbs., 15c; 5 lbs., 35c; 10 lbs., 60c.

**SULPHO-TOBACCO SOAP.** A wonderful and inexpensive insecticide.

One or two applications will rid plants of the pests. Destroys Cabbage, Squash and Potato Bugs, Currant Worms, Lice, Green Fly, Mealy Bug, Red Spider, etc. Sure death to all plant insects indoors and out-of-doors. Of special value for spraying shrubs, fruit trees and vines.

3-oz. Cake, 10 cents. Mailed, postpaid, 13 cents.  
8-oz. Cake, 20 cents. Mailed, postpaid, 28 cents.

**TOBACCO DUST.** A sure remedy for green Fly, Aphis, Fleas, Beetles, etc. Splendid fertilizer and preventative for insects in the ground and around roots. . . 5 lbs., 25c; 100 lbs., \$3.00.

**TOBACCO DUST FOR FUMIGATING.** 10c lb.; 3 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

**TOBACCO DUST AND SULPHUR.** Will prevent and cure mildew on grape vines and rose bushes. It will destroy the Green and Black Fly, Grubs, Cutworms, Lice, Mealy Bug and Red Spider. . . . . Per lb., 10c; 5 lbs., 30c.

**TOBACCO EXTRACT ROSE LEAF.** A perfectly pure, highly concentrated extract of Tobacco, always uniform in strength of nicotine poison. Destroys Green Fly, Mealy Bug, Thrip and Red Spider. . . pt., 30c; qt., 50c; gal., \$1.50; 5 gal., \$5.00.

**TOBACCO STEMS.** Used for fumigating plants to kill insects. Invaluable as a mulch for rose beds, lettuce beds, etc., where insects frequently do much injury to roots and foliage. Tobacco Stems have become an indispensable lawn covering for winter. It not only acts as protector, but imparts large quantities of ammonia and drives away insects and moles, which harbor in lawns during winter. The best quality stems supplied per lb., 5c; bbl., \$1.00; bale of about 150 lbs., \$1.50.

**TREE PAINT, OTWELL'S.** For summer use. (A protection for fruit or ornamental trees.) It kills Aphis, Bark Lice, Borers and all kinds of tree enemies that attack the body or vital part of the trees. Prevents sun scald, one of the most damaging afflictions to young fruit or shade trees.

½ gallon, 60c; 1 gallon, \$1.00.

**TREE PAINT, OTWELL'S.** For winter use. The best preparation for protecting fruit trees against Rabbits, Mice and Vermin of all kinds. Puts the trees in the very brightest, healthiest growing condition. . . . ½ gal., 60c; 1 gal., \$1.00.

**TREE TANGLEFOOT.** For protecting trees against climbing insect pests in a simple economical and effective way; put a band of tree tanglefoot, from 3 to 5 inches wide completely around the tree. A perfect safeguard against Gypsy, Brown-Tail and Tussock Moth, Canker Worms and Ants, and other creeping insects. It will remain sticky about three months, fully exposed to weather.

1 lb., 30c; 3 lb., 85c; 10 lb., \$2.65; 20 lb., \$4.80.

**WEED KILLER, TARGET BRAND.** A highly concentrated solution which dilutes one part to 50 parts of water. It is effective within 12 hours after application and one application will keep paths and roadways free from weeds for an entire season. It will not stain brick walks or stone. qt., 40c; ½ gal., 65c; 1 gal., \$1.00; 5 gal., \$4.00; 10 gal., \$7.50.



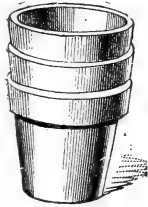
**V2 Fluid is for a summer spray only, when the trees are in bud and leaf.** Does not injure leaf or blossom. The diseases which attack forest trees readily yield to the effects of the Fluids as well as the dreaded Hop Aphis. One application of each fluid is usually sufficient for one year. One gallon will make 100 gallons of spraying fluid.

**V3 Fluid.** For leaf eating insects—especially valuable for protecting and invigorating the growth of all vegetables as it destroys all insect life with which it comes in contact, including Rose and Potato Bugs, Cabbage Worm, etc. One gallon will make 100 gallons of spraying fluid. . . . . 1 qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00.



# FLOWER POTS AND SAUCERS.

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No charge for packing.



## FLOWER POTS.

			per 100				per 100			
	each	doz.			each	doz.			each	doz.
2-inch	2c	15c	\$0 80	5-inch	5c	\$0 40	10-inch	\$0 25	\$ 2 50	
2½"	2c	20c	1 00	6 "	6c	60	12 "	40	4 50	
3 "	3c	25c	1 25	7 "	8c	90	14 "	90	9 50	
3½"	3c	25c	1 50	8 "	12c	1 25	16 "	1 50	17 00	
4 "	5c	30c	2 00	9 "	15c	1 75				

## FLOWER POT SAUCERS.

			per 100				per 100			
	each	doz.			each	doz.			each	per doz.
4-inch	3c	25c	\$1 80	7-inch	5c	50c	\$3 75	10-inch	12c	\$1 00
5 "	3c	30c	2 25	8 "	7c	70c	5 50	12 "	15c	1 50
6 "	4c	40c	3 00	9 "	10c	90c	7 00			

## AZALEA FLOWER POTS.

These are the same style as our standard Flower Pots, but not so deep. Suitable for Azaleas, Bulbs, Ferns, Spireas, etc.

			per 100				per 100			
	each	doz.			each	doz.			each	per doz.
5-inch	6c	60c	\$1 00	7-inch	8c	80c	\$1 00	10-inch	25c	\$2 50
6 "	8c	70c	1 25	8 "	12c	1 25	1 25	12 "	40c	4 50

## ROUND SEED PANS.

These are the same style as our standard Pots, but not so deep, and are suitable for Cacti, Begonias, Tulips, etc.

			per 100				per 100			
	each	doz.			each	doz.			each	per doz.
5-inch	5c	50c	\$0 90	7-inch	8c	80c	\$1 00	10-inch	20c	\$2 00
6 "	6c	65c	1 25	8 "	12c	1 25	1 25	12 "	30c	3 00

## FERN PANS.

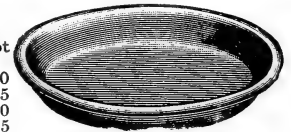
These Pans are especially adapted for linings to Porcelain and Silver Fern Pans.

			per 100				per 100			
	each	doz.			each	doz.			each	per doz.
5½-inch	6c	60c	\$1 00	7-inch	10c	1 00	1 30	9-inch	15c	\$1 60
6¼ "	7c	80c	1 30	8 "	12c	1 30	1 30	10 "	20c	2 00

## FIBROTTA SAUCERS.

Made of Indurated Fibre; no moisture goes through to injure table, floor or carpet, light and not easily broken, far cheaper in the end and better every way than earthen ware.

			per 100				per 100			
	Each	Doz.,			Each	Doz.,			Each	Doz.,
4-inch	11c	\$1 30	1 30	10-inch	16c	\$1 90	1 90			
5 "	11c	1 35	1 35	12 "	20c	2 25	2 25			
6 "	12c	1 40	1 40	14 "	25c	3 00	3 00			
7 "	13c	1 50	1 50	16 "	45c	5 25	5 25			
8 "	15c	1 65	1 65	18 "	50c	6 00	6 00			

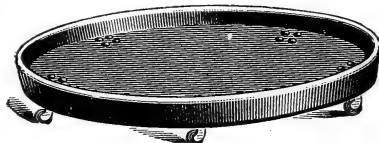


Fibrotta Saucers.

## FIBROTTA ROLLING STANDS.

For heavy plants and Palms, will not soak or rust. Casters have ball bearings and have hardwood rollers. Rolling stands all have heavy deep saucers and will carry all the weight usually put in large pots for Palms, Rubber Plants, etc.

inches	casters	each	doz.	inches	casters	each	doz.
12	4	55c	\$6 00	18	4	\$0 90	\$10 00
14	4	65c	7 20	20	4	1 10	12 00
16	4	80c	9 00	22	4	1 35	15 00



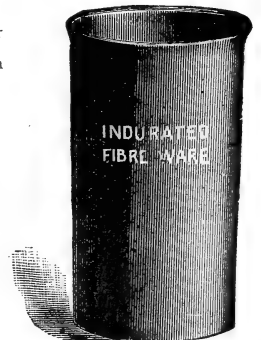
Fibrotta Rolling Stand.

## Florist Vases for Displaying Cut Flowers.

Indurated Fibre Florist's Vases for cut flower displays and storage purposes cannot be excelled for richness, beauty and economy.

We have always a large stock of our regular plain finish—a rich mahogany color. We can ship green enameled Vases at short notice.

Order by No. only	Diameter inches inside	Depth inches inside	Plain Brown		Enameled Green	
			Each.	Per dozen.	Each.	Per dozen.
0	8	13	\$0 60	\$6 60	\$0 65	\$7 80
1	5½	10	50	5 70	60	6 90
2	4½	9	45	5 00	55	6 20
3	4	6	40	4 20	50	5 40
4	3	4½	30	3 30	40	4 30
00	9	22	2 20	25 00	2 50	30 00
01	7	20	1 25	14 40	1 50	18 00
11	5½	18	60	6 60	65	7 80
22	4½	15	50	5 70	60	6 90
33	4	12	45	5 00	55	6 20
44	3	9	40	4 20	50	5 40
000	9	29	3 00	33 00	3 25	



GET OUR ESTIMATES. THEY COST YOU NOTHING, AND MAY RESULT IN SAVING TIME, EXPENSE AND ANNOYANCE.

# Coldwell Lawn Mowers.

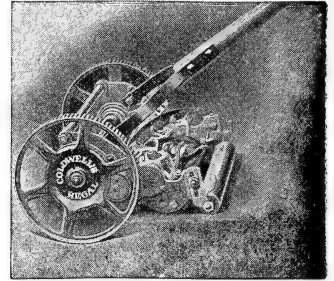
The best lawn mower is the one that does the best work, runs the lightest, is the easiest to handle, is most durable, and will adapt itself to the greatest variety of grass. All of these desirable features are embraced in the Coldwell.

## Coldwell's Regal Ball-Bearing.

Guaranteed to be the latest and best Lawn Mower made. The drive wheels of Coldwell's Regal mower are locked fast to the opposite ends of a steel shaft, which is supported near its ends by ball bearings. The ball bearings are fitted with adjustable cones, by means of which the wheels can always be made to run true, no matter how much the machine is worn.

The ratchets of Coldwell's Regal Mowers consist of three large malleable iron pawls located in each of the two drive gears. These are the largest and slowest moving gears in the machine, thus providing ample room for a suitable ratchet (These pawls are guaranteed indestructible through wear.)

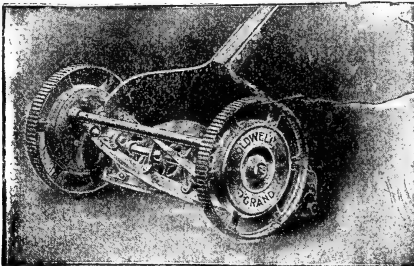
The stationary knife of Coldwell's Regal mower is channel shape, [ ] being double edged and reversible, which not only prevents its springing or sagging, but also provides it with two cutting edges. When one edge is worn down, it can be reversed. Another important feature of this channel shaped knife over the ordinary flat knife is that there is no flat surface presented to the revolving cutter for it to wear a long dragging surface in. 16 in., \$8.50; 18 in., \$9.50; 20 in., \$10.50.



## Coldwell's Grand Ball-Bearing.

This is a strictly high grade Ball-Bearing Lawn Mower of first grade material throughout, and the workmanship and finish are unsurpassed. It has large driving wheels (10 inches high) thus insuring lightness of draft. The large diameter revolving cutter, makes it an exceptionally good high grass Lawn Mower, and the five blades insure fineness of cut. It is provided with sliding pawl ratchets and the adjustments of the bearings and bottom knife are the simplest ever made. Solid cold rolled steel shafts 5/8 of an inch in diameter, running entirely through the revolving cutter and bearings adds greatly to the strength of the revolving cutter.

16 in., \$7.50; 18 in., \$8.50; 20 in., \$9.25.



## Coldwell's Imperial High Wheel.

We claim that the Four-Blade High Wheel Imperial is just the mower for use on 90 per cent of our lawns. The workmanship upon it is superior to that of any other make. The joints are closely fitted, insuring a noiseless, light-working and durable machine. It is nicely balanced, enabling the operator to handle it with ease.

16 in., \$7.25; 18 in., \$8.25; 20 in., \$9.00.

SUBURBAN BALL BEARING... 14 in., \$4.25; 15 in., \$4.50

CADET LAWN MOWER..... 14 in., \$2.75; 16 in., \$3.00

## Coldwell Improved Horse Lawn Mower.

This well-known standard Mower has side draft attachments, to enable the horse to walk on the cut grass only, and caster rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads. The mowers are fitted up with steel shafting and composition split bushings, and great care is taken to have the workmanship perfect.

EACH MOWER IS GUARANTEED TO GIVE ENTIRE SATISFACTION TO THE PURCHASER.

30 inch, complete, with shaft and seat, \$65.00.

35 inch, complete, with shaft and seat, \$78.00.

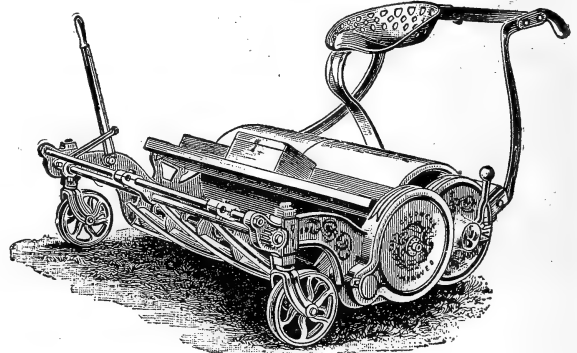
Coldwell Pony Mower, with grass box, no shafts,

25 inch, \$42.00.

## Geared Roller or Golf Mower.

This mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work. Coldwell's Roller Mower has brass bushings and triple pawl ratchets. The roller tends to make a smooth and even soil, and rolls down upheavals caused by dampness and worms. The machine with six blades is highly recommended by most of the leading golf clubs in America for work on putting- greens 16-inch, including grass box, \$13.50.

18-inch, including grass box, 15.50.



## COLDWELL'S LAWN EDGER.

The principal features of Coldwell's Lawn Edger is the Ball bearing adjustments. The adjustment of the bearings is accomplished by means of a single screw, a locking screw holds them securely in place. The large diameter drive wheels together with the large diameter revolving cutter causes it to run particularly easy and prevents it from choking when cutting high grass. It is equipped with fine cut gears, sliding-pawl ratchet, the best tool steel bottom knife and is made to meet the demands of a really first class lawn trimmer. Price, \$5.00.

## NOX ALL GRASS CATCHERS.

The frame is collapsible and of such construction as to prevent its folding forward, thereby overcoming any possibility of interference with the wheels or knives of the Mowers, yet giving the maximum rigidity to the frame. Steel coil wire spring takes up the adjustment and holds the catcher securely in place, spring is encased in metal tube, bottom of heavy galvanized iron. Cloth part is made of fine quality duck.

No. 500.	Made to fit Mower,	12 to 16 in.....	\$0 75
No. 510.	" " "	16 to 22 in.....	75
No. 810.	" " "	18 to 22 in.....	1 25

## LAWN REQUISITES.

**DUNHAM ROLLER BEARING LAWN ROLLER.** If you wish a fine lawn, you must use a Lawn Roller. In no other manner can a smooth compact surface be maintained. It packs the soil, thus retaining the moisture throughout the entire season, enabling young and tender grass to secure the necessary nourishment.

The Dunham Lawn Roller will run easier than any other on account of the roller bearings, and perfectly round and smooth axles.

The axle revolves freely in roller bearings. The rolls or sections are loose on the axle so that they revolve independently, thus facilitating the movement of the roller when turning about. The handles are strong and rigid, but light, all steel except the grip. Two weights are attached to the handle on either side, holding the handle upright at all times.

The rollers are smooth on the face, and finished in aluminum. The outer edges are rounded to avoid cutting the Lawn.

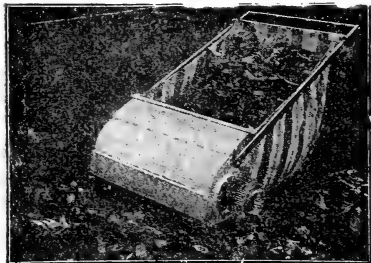


- No. 401—2 Section, 16 inches long and 15 inches in diameter, weight 150 lbs. .... \$6 00
- No. 404—2 Section, 20 inches long and 20 inches in diameter, weight 250 lbs. .... \$10 00
- No. 410—2 Section, 24 inches long and 24 inches in diameter, weight 450 lbs. .... \$17 50
- No. 412—3 Section, 30 inches long, and 24 inches in diameter, weight 500 lbs. .... \$19 00

**ONE HORSE LAWN ROLLERS.**

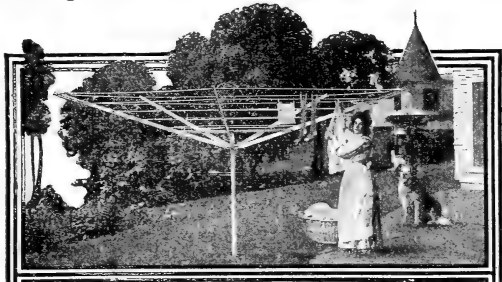
- No. 444—With Steel Frame and Steel Weight box, 4 Section, 40 inches long and 28 inches in diameter. Weight 1000 lbs. \$40 00
- No. 450—4 Section, 48 inches long and 20 inches in diameter. Weight 800 lbs, without Weight Box..... \$30 00

**LAWN CLEANER PENNSYLVANIA.**



This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes, and greatly benefit the turf. It leaves the grass standing up straight and straightens up crab grass and other running weeds so they will be cut close by the lawn mower and sooner destroyed.

In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas, and is put together in the most durable and thorough manner. It combines strength and durability with light construction. Price \$16.00.



Hill's Champion Dryer.

**HILLS "CHAMPION" DRYER FOR THE LAWN.**

The Reel is made of best material throughout. It is self-fastening and locks to post when in use, and being made separate, can be easily removed when not in use. The post sets in a socket in the ground and can also be removed, thus leaving no obstruction at all in lawn between wash days. All castings of best refined malleable iron and galvanized. They are fitted with either wood post painted or steel tubing post galvanized.

- No. 1—4 arms, 6 feet long, 100 feet line, wood post..... \$6 00
- No. 3—5 arms, 7 feet long, 150 feet line, wood post..... 8 00
- No. 3—5 arms, 7 feet long, 150 feet line, steel post..... 9 50

**CALIFORNIA LAWN SPRINGLER.** Four Arm Lawn Sprinkler which can be operated with a moderate pressure, covers a wide area and distributes the water evenly. The revolving arm throw the water in a fine spray into the air and the motion produces a fine mist. Height about 1 foot, \$1.50.

**Rainmaker Lawn Sprinkler.**

With revolving wings, strongly made. It throws a beautiful spray. Solid brass; nicely finished; base Japanned. The sled enables the sprinkler to be moved about the lawn by the hose, and by a cord attached to hole at rear of sled.

Price \$1.00.

**SQUARE FOUNTAIN LAWN SPRINKLER.** Made of heavy

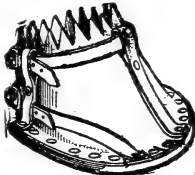
sheet brass and polished. It will sprinkle along the side of your house and into the corners, without throwing into the house; or along a front walk and reach the edges without throwing water over the walk. In simplicity and strength of construction it is perfect. There is nothing to be adjusted, nothing to get out of order..... 60c



Rainmaker.

**LAWN RAKES.**

- AUTOMATIC.** Self-cleaning, made of best hickory, 26 teeth. 60c
- ENGLISH DAISY.** For lawns, for tearing off daisy and dandelion heads..... \$2 75
- LAWN QUEEN, WIRE.** Is reversible, and can be used for grass or leaves. 24 teeth..... 50c



**OLE OLSEN.** Made of best hickory, 26 teeth..... 50c

**Wooden.** 20 teeth..... 30c

**HORSE BOOTS.**

For use on lawn. They are made of strong leather fastened with copper rivets, and will wear a long time. Per set of 4, riveted, heavy flat soles, \$12.00

**HOSE RUBBER, REVERO, Non-Kinkable.** Best hose on the market, finest quality of rubber being used in its manufacture. Will not kink and will last for years. We can supply in any length. 1/2 in., 16 1/2 cts. per ft., 3/4 in., 19 cts. per ft.

**HOSE RUBBER.** 1/2 in., 4 ply "Kauga," in 50 ft. lengths, 10cts. per foot.

**HOSE RUBBER.** 3/4 in., 4 ply "Kauga," in 50 ft. lengths, 11 cts. per foot.

**HOSE REEL,** wooden 75c. **HOSE REEL,** iron..... \$2 25

**NOZZLE—GEM.** Throwing all variations from fine spray to stream for 3/4-inch hose..... 50c

**MENDERS.** Brass..... 5c each, 50c doz.

**WOODEN.** 3c each, 25c doz.

**HUDSON'S** Hose Mending outfits. Furnishes a complete outfit consisting of 6 menders or connections, 20 bands or fasteners and a pair of pliers for fastening bands, 60c, by mail 70c.

**HOSE MENDERS, HUDSON.** Separate 50c Doz. bands 20c doz.

**HOSE MENDERS. PERFECT CLINCHING.** A one piece article which does the work of the mender tube and two clamps ordinarily used. A smooth mend with no projecting parts. A solid joint which cannot pull apart or leak. 10c each; \$1.00 doz.

**HOSE COUPLINGS.** 10c each; \$1.00 doz.

**COUPLING BANDS, SHERMAN SINGLE** 5c each; 50c doz.

**DOUBLE** 10c each; \$1.00 doz.

**THE SNAP HOSE COUPLER.** Best hose coupler, being simple durable and always water tight for 3/4-inch hose.

No. 1—Screws on the hydrant or the old threaded coupling and stays there..... 20c each; \$2.00 doz.

No. 2—Screws into the old threaded coupling or into the nozzle and sprinkler and stays there..... 10c each; \$1.00 doz.

No. 4—Used on nozzle end of hose and can be connected with any nozzle by using No. 2, as an intermediate. Used with No. 5 for connecting two lengths of hose..... 10c each; \$1.00 doz.

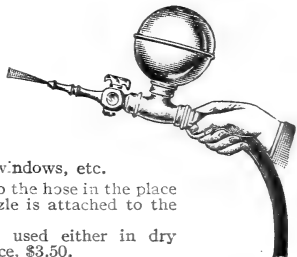
No. 5—Goes on end of hose that attaches to either faucet or ground pipe. It is used with No. 4 for connecting two lengths of hose..... 20c each; \$2.00 doz.

**ROYLE HYDRANT ATTACHMENT.** To be used for attaching hose to smooth faucets..... 40c

**U-N-I-T SPRAYER.** A simple, practical device, made of Brass, to be attached to any garden hose, and for the purpose of applying any desired solution for fertilizing the lawns, shrubby plants, etc., or for spraying insecticides or soap solutions, for washing of windows, etc.

The sprayer screws on to the hose in the place of the nozzle, and the nozzle is attached to the other end of the coupling.

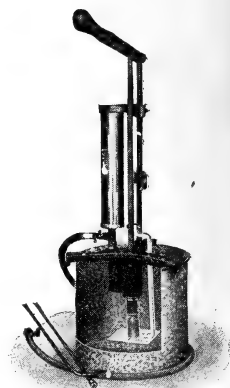
The substance can be used either in dry powder form or solution. Price, \$3.50.



# SPRAYING PUMPS AND APPLIANCES.



No. 3 Paragon Sprayer.



No. 1 Paragon Sprayer.

- No. 1. 5 gallons, with 5 feet rubber hose, 5 feet extension pipe and 2 spray nozzles.....\$10 00
  - No. 3. 12 gallons, mounted on a 2 wheel steel frame, 10 feet of rubber hose, 7½ feet extension pipe, 2 spray nozzles.....15 00
- No. 1 and 3 can be furnished with All Brass Pumps for \$4.00 additional.**
- No. 5. All Brass, mounted on 30 gallon heavy oak barrel. This pump is fitted with extra large air chamber and will sustain a pressure of 300 lbs. and throw a uniform and continuous spray. Fitted with 25 feet rubber hose; 7½ feet extension pipe, 1 spray nozzle and triple spray nozzles.....\$25 00
  - No. 6. Special. All Brass, mounted on 50 gallon heavy oak barrel, fitted with 2-25 feet lengths of 5-ply hose, 2-2 spray nozzles and 12 feet extension pipe.....\$33 00

Paragon Sprayers were awarded a certificate of Highly Commended, (Highest Award Conferred) by the Society of American Florists, at Convention held in Cincinnati, 1909.

**PUMPS—O. K. BRASS SPRAY.** Can be adjusted by clamps to fit any barrel. The cylinder is made of a solid brass tube with a closed end which passes through a circular hemp packing, which adapts it for pumping hot, cold or any other kind of mixture. The packing gland is adjusted by means of two heavy bolts with which all wear can readily be taken up. The valves can easily be taken out and repaired. The air chamber is made of 2½ inch steel tube. The handle is wrought steel with adjustable stroke, so as to enable the operator to get up a pressure of 200 pounds or more if necessary. It is fitted for One or two leads of discharge hose.

- Pump only, without Hose or Connections.....\$10 75
- Complete with one lead of 15 feet discharge hose and Graduating Vermorel Nozzle... 14 00
- Complete with two leads of 15 feet each discharge hose and Graduating Vermorel Nozzles..... 16 50

**PUMPS—IMPROVED BRASS BARREL SPRAY.** The pump sets inside the barrel. The working parts are entirely submerged, thereby avoiding all possibility of losing priming. Has Bronze Ball Valves and Brass Seats; the plunger is Brass, fitted with hemp packing. The cylinder and discharge pipe are all brass. The air chamber is 30 inches in length, enabling the pump to throw a uniform and constant spray. With 15 feet of ½-inch discharge hose and vermorel graduating nozzle.....\$6 50

**PUMPS—LEVER BUCKET BRASS SPRAY.** It has all the advantages of the ordinary barrel pump and bucket pump combined. Is made of brass with ball valves; handle and foot rest are malleable iron. With agitator, complete with hose and graduating vermorel fine, coarse spray and solid stream nozzle.....\$3 50

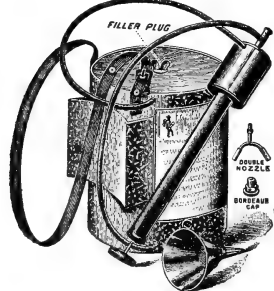
**PUMPS—DEFIANCE BRASS SPRAY.** With agitator, complete with hose and graduating vermorel fine, coarse spray and solid stream nozzle.....\$3 00

**PUMPS—LITTLE GIANT BRASS SPRAY.** Is provided with a large air chamber. With agitator, complete with hose and Imperial combination, fine coarse spray and solid stream nozzle, with malleable foot rest.....\$2 25

- Four foot Pipe Extension.....\$0 25
- Bordeaux Nozzle..... 75
- Graduating Vermorel Nozzle..... 75
- Meyers Power Nozzle.....\$0 75
- Imperial Nozzle..... 40
- Sprinkling Nozzle..... 40



No. 5 Paragon Sprayer.



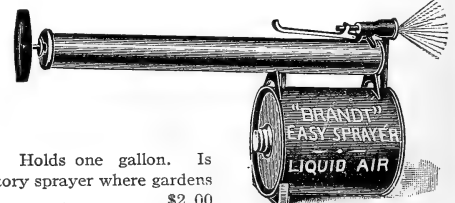
The Brandt Sprayer.

## THE BRANDT SPRAYER.

The Brandt Sprayers are built to fill all requirements of the Orchardist, Farmer, Poultry Raisers and Dairy-men. It holds three gallons, an amount sufficient to spray one mile of vines. The pressure is maintained uniform at all times by an occasional stroke of the pump. This also keeps the spray uniform and distributes it in a finely beaded solid cone of mist.

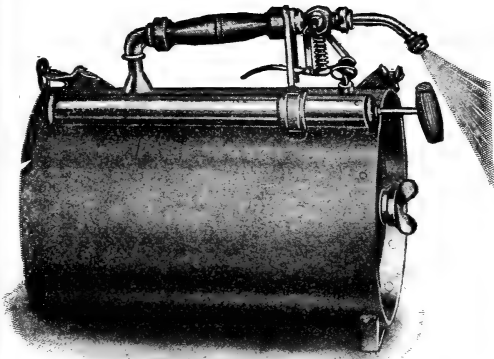
The pump is carried in the hands in a convenient position for operation and for directing the spray on to the plants or vines. It is connected to the tank by two rubber tubes, one of which carries the air to the tank, the other delivers the liquid to the nozzle where it is mixed with air from the air reservoir on pump and made into a finely beaded mist and delivered on the plants

- No. 2 Galvanized Steel Tank\$5 00
- No. 3 Brass Tank..... 6 75
- Doutle Nozzle, for spraying two rows at one time..... 1 50
- Tree Nozzle, for spraying trees, etc. 1 50
- No. 4 Bordeaux Spray Cap for spraying Bordeaux Mixture and White wash..... 75



**EASY SPRAYER.** A compressed air sprayer made of Galvanized Steel. Holds one gallon. Is equipped with automatic shut-off nozzle and is found a very satisfactory sprayer where gardens and lawns are not too large.....\$2 00

**SPRAY PUMPS--Continued.**



**Lowell Fountain Compressed Air Spray.**

**LOWELL FOUNTAIN COMPRESSED AIR SPRAY.** One of the best compressed air sprayers. The tank has a capacity of 3 gallons and is tested to an air pressure of 50 lbs. to the square inch, which obviates any danger of bursting. One charge sufficient to expel entire contents of tank. The machine is carried in one hand like a satchel, and the spray can be started or stopped, by a thumb lever operated by the same hand that carries the sprayer.

Galvanized Tank..... \$5 00  
Brass Tank..... 7 00

**AUTO COMPRESSED AIR SPRAY.** Can be suspended from the shoulder allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes useful for spraying tall trees.

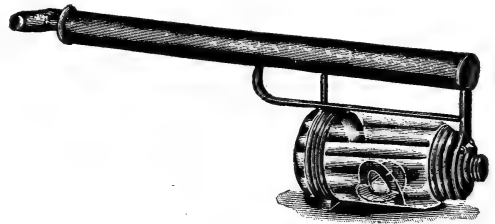
Brass Tank, with Stop Cock..... \$6 75  
Galvanized Steel Tank, with Stop Cock..... 4 50  
Extension Pipes, 2-foot lengths, Brass, each..... 40

**AUTO SPRAY No. 3.** Whitewashing and general purpose spray. Tank heavy galvanized steel; holds eight gallons. Pump all brass but handle; fittings, cylinders, 1½ inches in diameter; brass ball valves, suitable for spraying trees, shrubs and vines as well as whitewash and cold water paints. Fitted with 8 ft. 3 ply hose, 8 ft. iron extension pipe and Vermorel nozzle..... \$12 00

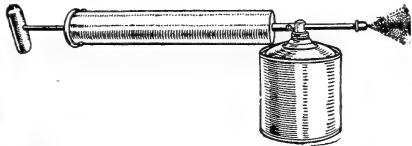
**TORCH FOR "AUTO-SPRAY."** It is effective in burning worms and nests, and is the only torch that has ever been used successfully. The torch burns kerosene oil vaporized with oxygen of the air, and is so intensely hot that a single blast is sufficient to destroy a nest of worms..... \$1 00

**GLASS TANK SPRAYER.** For applying insecticides in the form of a mist or vapor. The reservoir of this sprayer is made of glass, which enables the operator to see ingredients mixing just how they are working. The glass sprayer will not corrode or rust, and if accidentally broken can be replaced at once with a Mason Fruit Jar. Each 75c; three for \$2.00

**TIN TANK SPRAYER.** Only high-grade material used in construction. Strong, durable and satisfactory..... Each 50c; three for \$1.25.



**Glass Tank Sprayer.**

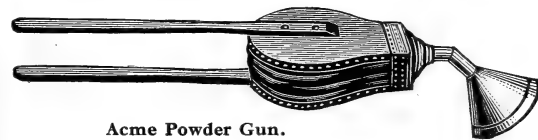
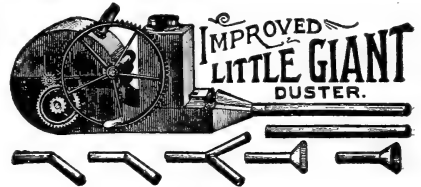


**Red Star Air Spray.**

**RED STAR AIR SPRAY.** made of xx tin with brass tubing; throws a continuous spray. It does the work in half the time and with half the number of strokes required by the old style..... Each \$1.00; three for \$2.70.

**CHAMPION DRY POWDER DUSTER.** For Farm, Garden, Vineyard, Tobacco fields, etc. Distributes Paris Green, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, etc. Adjustable to any width of row, Dusts two rows at a time. Weighs about 6 lbs. Comprising 4 tubes, 6 nozzles, 2 straps and oil can. The reservoir holds over a quart of powder..... Each \$7.50; three for \$21.00.

**LITTLE GIANT DRY POWDER DUSTER.** For Farm, Garden, Vineyard, Tobacco Fields, etc. Machine weighs about 6 lbs.; furnished with 3 tubes, 5 nozzles and strap. Distributes any dry powder, Paris Green, etc. Dusts two rows at a time. The reservoir holds one quart. Run entirely by gear, Each \$5.50; three for \$15.00.



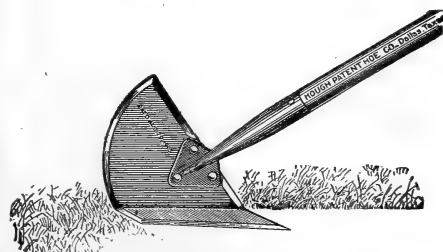
**Acme Powder Gun.**

**ACME POWDER GUN.** The simplest tool for applying poison to growing crops. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity, any time of the day. The elbow may be detached if desired. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast..... Each \$1.00 three for \$2.70.

**DRY POWDER SPRAYER.** Easy to operate, strong and durable. Made of heavy tin. Can holds 1 quart..... Each, \$0.65; three for \$1.80



**Dry Powder Sprayer.**



**Hoe and Edge Trimmer.**

**HOE AND EDGE TRIMMER COMBINED—HOUGH PATENT.** The only five-edged hoe on the market. The invention is an improved form of hoe, and provides a simple, inexpensive tool which may be conveniently used for trimming the edges of lawns, walks and flower beds, and which may also be used as a weeding scuffle hoe and as a sod cutter around fruits and other garden truck..... Each, \$1.00; three for \$2.50.

**CHAMPION SOD CUTTER.** The sides and bottom are made of one piece of steel, so that there are no openings that can get choked. A roller just over the knife regulates the thickness of the sod. The only sod cutter that will cut both ways. A whole field may be cut without removing any sod. Each \$22.00.





Union Plant Tub.

### UNION PLANT TUB.

An excellent plant tub, cheap, neat and durable. Made from 3/4-inch cypress, with iron handles, 3 iron hoops and 2 coats of green paint.

No. 1.	13 1/4 inches diameter,	12 inches high	.....	\$1 00
No. 2.	14 3/8 " "	14 " "	.....	1 25
No. 3.	16 " "	16 " "	.....	1 50
No. 4.	19 " "	18 " "	.....	2 00
No. 5.	21 " "	20 " "	.....	3 00
No. 6.	25 " "	22 " "	.....	4 00

### MISSION PLANT BOXES.

The best plant boxes in the market for large Palms, Boxwoods, Bay Trees and large shrubs or trees. Suitable for either out-door or indoor use; attractive in design, strong and durable. Bottoms and insides are painted with waterproof paint. Outside painted Mission Brown. Made of Cypress.

14x14 inches,	\$2.75;	18x18 inches,	\$3.50;	22x22 inches,	\$4.50.
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Mission Plant Boxes.

### FIBROTTA PLANT TUBS.

Plant Tub of Indurated Fibre Ware are useful in Parlors, Corridors, Hotel Lobbies, etc. Drainage holes in the bottom prevent earth souring and afford perfect ventilation. Plants kept in these tubs will flourish as readily as grown out of doors. They are furnished in the plain brown and also enameled green.

Their glossy beauty remains—simply wash them off in clear water.

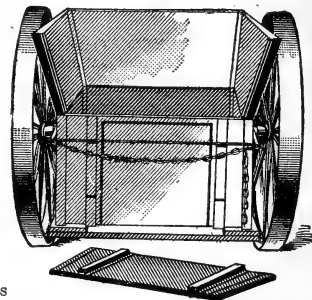
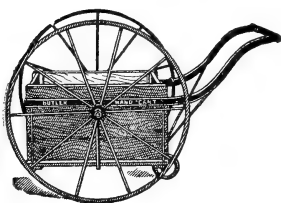
10 in. Pot and Saucer.	\$0 60	14 in. Pot and Saucer.	\$1 45	Plain Brown, Enam. Green.	\$1 95
12 in. Pot and Saucer.	70	18 in. Pot and Saucer.	3 75		4 50

### ASH SIFTER--"HUSTLER"

The Sifter is made of galvanized iron with heavy galvanized wire cylinder sieve, and is made in two sizes.

No. 1, holds a hodful of ashes, and is designed for stove and small furnace use. It is made to fit an 18-inch iron can or flour barrel. Price.....\$4 50

No. 2, for large furnace use in private residences, stores or public buildings, is made to fit a 20-inch can or sugar barrel. Price.....\$6 75



### THE BUTLER STEEL HAND CART.

Of unlimited usefulness about the lawn, garden, orchard, stable, etc.; built low down, it is easily loaded and unloaded with barrels, cans, baskets, stones, etc. The detachable box is for vegetables, leaves, fruit, litter, etc. The cart turns clear over for dumping load if desired. Wheels 36 inches high; from out to out of hubs, 42 in. Platform 28 x 32 in. Boxboards 15 in. high. Capacity 6 cubic feet. Flaring Hopper 12 in. above box makes capacity 11 bushels for leaves, litter, etc.

No. 1—Plain, (without box) steel wheels.....	\$8 00	1 1/4 in. Tires.	\$10 00	3 in. Tires.	
No. 2—With detachable box, steel wheels.....	10 00	" "	12 00	" "	
No. 3—With Flaring Hopper sides, steel wheels.....	14 50	" "	16 50	" "	

### VELVET LAWN SEEDER.

The Velvet Lawn Seeder puts the seed in the soil, whether the work is in sod or new grading. Every seed trench contains an equal amount of seed. No seed is wasted. The seed must grow, because it is in the soil and not on top of it. The wind cannot blow it away. Birds and fowl do not get it. Neither can heavy rains wash it away. The discs do not tear the sod; they cut it, cultivate the grass roots and for work in gardens and new grading pulverize the soil.

There are eight single discs on the machine set two inches apart. Therefore it plants eight rows of seed at a time, or a strip sixteen inches wide. Each feed sows an equal amount of seed, and the feeds can be set to sow any quantity desired. Each disc is independent in action and automatically conforms to the inequalities of the ground. The roller or press wheels at the rear of the machine firm the earth over the seed.

All old sod is root bound. The cutting action of the discs relieves this condition, cultivates the grass roots, and at the same time plants new seed IN THE SOD.

In soil that has not been sodded, the ground wheels and the rear roller keep the discs from going too deep, and the roller also smooths the earth, after the seed has been drilled. Price, \$20.00.

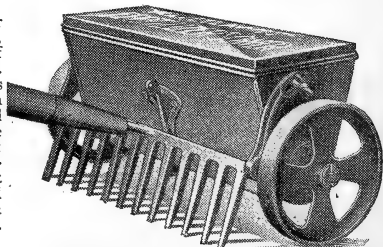
### VELVET LAWN FERTILIZER SOWER.

The only hand-power Fertilizer Sower on the market that will sow evenly, accurately and any desired amount of all brands of pulverized dry fertilizers.

It is equipped with an Agitator, as well as Force Feeders, insuring the even spreading of the fertilizer over the ground the entire width of the machine, and the machine sets so close to the ground that the wind has no chance to blow the fertilizer about while being sown. It sows equally well whether being pushed



or pulled. The width of the Sower will enable the gardener to sow fertilizer between rows of growing vegetables, when it is necessary, in order to stimulate growth at a critical time. It can also be used for Sowing Seed in any quantity. Price, \$6.00.



# HORTICULTURAL TOOLS AND SUNDRIES.

- BARROWS GARDEN**, No. 2, small.....\$3 25  
 " " " No. 3, medium..... 3 50  
 " " " No. 4, large..... 4 00  
**RAILROAD**, patent wheel and bolted..... 1 75  
**BASKETS, WIRE HANGING**, 8 inch 12c, 10 inch, 15c;  
 12 inch 20c; 14 inch, 25c; 16 inch, 30c; 18 inch, 40c;  
 20 inch, 50c; 22 inch, 75c; 24 inch, \$1.00.  
**BELLOWS ACME**. Is well made, with a solid hardwood head  
 block, hardwood handles, best leather for the bellows, an  
 extra elbow is furnished to tilt the funnel for getting under  
 the leaves of plants and shrubs, \$1.00 each, 3 for \$2.70.  
**BELLOWS, WOODASON'S**. Single cone—small.....\$1 00  
 " " " Single cone—large..... 2 00  
 " " " Sulphur..... 1 50  
**BOXES, PORCH. Galvanized and Painted**. 30 x 7 x 7 in. \$1.25  
**BRACKET FLOWER POTS**. Made of steel, strong and durable.  
 Flower Pots and Saucers are held securely in place by the  
 spring clasp.  
 2A. For 6 inch Flower Pots.....30 cts.  
 3A. For 7 inch Flower Pots..... 40 cts.  
**CULTIVATOR, NORCROSS HAND GARDEN**. The Prongs,  
 are square spring steel bent Corner wise, with forged shovels  
 at ends. The Socket Frame and Clamping Bar are made  
 of toughest malleable. Handle best grade of White Ash.  
 4 feet long..... 75 cts., each; 3 for \$2.00  
**CUTTER, FODDER, TONY**. 2 knives can be regulated to cut  
 in lengths from ¼ to 1½ in. Capacity 75 to 100 bushels of  
 Cut Hay per hour.....\$12 50  
**GANES**. 7 to 9 feet long for plant stakes, per 100..... 75  
**DANDELION EXTERMINATOR, LIGHTNING**  
 The only quick, sure and easy way to rid  
 your lawn of Dandelions and keep it free

The exterminator is charged with gaso-  
 line or kerosene and in operation cuts the  
 weed and deposits a few drops of the liquid  
 on the root at the same time. Weeds once  
 properly treated with the exterminator  
 never grows again, the root being eaten up  
 or rotted by the liquid in a few hours, while  
 if cut with a knife in the ordinary way and  
 not treated, its growth is stimulated, and it  
 grows stronger than ever.....\$2 00



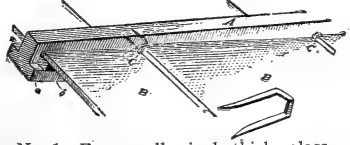
- DIBLES**. Iron, for transplanting plants, 50c  
**EDGING KNIFE**. For cutting edges of  
 walks and beds..... 50  
**FORKS, DIGGING OR SPADING**..... 1 00  
 " HAY. 6 foot handle, 3-tine..... 60  
 " MANURE. Cast steel, oval, 5-  
 tine..... 1 00  
 " " Cast steel, oval, 5-  
 tine, extra heavy... 1 25  
 " " Long Handle..... 75  
**HAND-WEEDING. GEM**..... 25  
 " " Imported; small size..... 65  
 " " Imported; large size..... 75  
 (Hand Weeding Forks, by mail, 10c each extra.)  
**FRUIT PICKERS**. Made of galvanized steel wire; attaches to  
 pole of any length; price, without pole.....30c



- FUMIGATOR, PERFECTION**. Made with  
 water tank, which prevents over heating;  
 the vapor assists in the destruction of insect;  
 No. 1—Capacity, 8 quarts.....\$3 00  
 No. 2— " 16 "..... 3 75  
 No. 3— " 24 "..... 4 50  
**GARDEN REELS**. Iron, painted..... 75  
**LINES**. About 250 feet..... 75

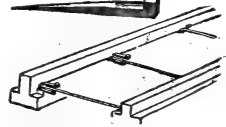
**GLASS CUTTERS, ECLIPSE**. The best  
 cheap cutter on the market. For all around  
 usefulness we prefer it to a diamond.  
 20c each; per doz. \$2.00

**GLAZING POINTS—PEERLESS**. Will stop your glass from  
 sliding, made of galvanized steel wire. No rights or lefts;  
 can be used on either side.



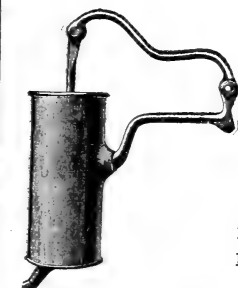
- No. 1—For small single-thick glass.  
 No. 2—For large single-thick glass.  
 No. 2½—For double-thick glass.  
 Per 1,000, 60c. By mail, 75c

**PINCERS**. For driving the points, 50c. By mail.....60c  
**GLAZING POINTS, SEIBERT'S  
 ZINC**. Are positively the best;  
 last forever; a sure preventative  
 of glass slipping. Effective on  
 large or small glass; easy to drive  
 easy to extract...40c per lb.  
 (By mail, 16c per lb. extra.)



- GRASS HOOKS**. American plain back.....\$0 80  
 " " " English, riveted back..... 40  
**GUNS, INSECT POWDER. CYCLONE**..... 10  
 " " " JUMBO..... 20  
**HOES. ACME WEEDING AND CULTIVATING**. Double  
 prong..... 50  
 " ENGLISH SCUFFLE OR PUSH, imported 6 in... 15  
 " STANDARD SOCKET GARDEN..... 40  
 " LADIES' LIGHT GARDEN..... 30  
 " ONION. One end square; opposite end 1 prong.. 25  
 " ONION. One end square; opposite end 2 prongs.. 30  
 " GRUBBING. With handle..... 60  
 " SANDUSKY OR GERMAN..... 45  
 " WEEDING. With 4 tooth rake..... 40  
 " WEEDING. With 6 tooth rake..... 50  
**KNIVES—PRUNING**.....\$1 25 to 2 00  
 " " " BUDDING..... 1 00 to 1 75  
 " " " ASPARAGUS. American..... 30  
**LABELS**. For pots, painted.  
 4x ¾-inch, per 100, 15c;..... per 1000.....\$1 00  
 5x ¾-inch, per 100, 15c;..... per 1000..... 1 15  
 6x ¾-inch, per 100, 20c;..... per 1000..... 1 25  
 8x ¾-inch, per 100, 30c;..... per 1000..... 2 00  
 10x ¾-inch, per 100, 40c;..... per 1000..... 3 00  
 12x1 ½-inch, per 100, 70c;..... per 1000..... 6 00

**LABELS**. Tree notched, copper wired, per 100, 20c; per 1000 \$1.50  
**LAWN FENCE, UNION**. Has the neatness, strength and dur-  
 ability of wrought iron fence and only costs about one-fourth  
 as much. It fits uneven ground and will follow an incline as  
 well as a level surface. It does not obstruct the view.  
 37 in. high, 8c per foot; \$7.00 per 100 feet.  
**LAMP DEFIANCE—FUMIGATING**. (For use in Greenhouses).  
 It burns kerosene. It is made of heavy tin throughout. The  
 oil fount is drawn in one piece so it cannot leak. The cup that  
 holds the Nicotinic (or similar preparation) is also drawn in  
 one piece and cannot leak. No glass about the lamp to be  
 broken. Used by prominent Market Gardeners all over the  
 Country. 50 cents each; \$5.00 per dozen.



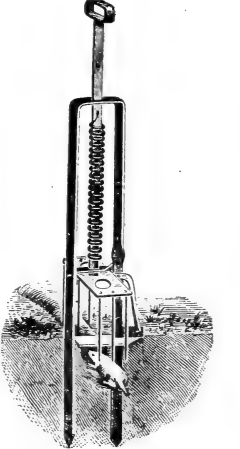
**MASTICA**. For glazing green houses.  
 The use of Mastica avoids the  
 necessity of repeatedly reglazing the  
 house, saving much time and ex-  
 pense. With Mastica can bed in or  
 use outside, with a machine. Brok-  
 en glass can be easily removed and  
 replaced by new without the break-  
 age of other glass, which usually  
 occurs with hard putty. One gal-  
 lon will cover about 300 running  
 feet (one side).  
 ½-gallon.....\$0 75  
 1-gallon..... 1 35  
**MASTICA GLAZING MACHINE**.  
 see cut..... 1 25



**MATS, H O T - B E D  
 STRONG BURLAP**. In-  
 destructible, cheap and  
 warm. These are made  
 of strong Burlap, warm-  
 ly lined with waste wool  
 and cotton, which is  
 quilted to hold in posi-  
 tion. Warmer than  
 straw, and more easily  
 handled. Do not retain  
 moisture, freeze, rot,  
 mildew, or harbor ver-  
 min, as straw does.

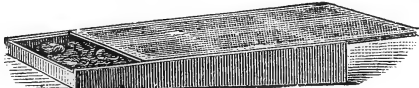
- MATS, BURLAP**. 76x76 inches.  
 Price, \$1.25 each.  
**MATS, WATER-PROOF DUCK**.  
 76x76 inches...Price, \$1.75 each.  
**MATTOCK, LONG CUTTER**. With  
 handle.....\$1 00  
**MATTOCK, CRONK'S GARDEN**.  
 ..... 50

- MOLE TRAP—REDDICK**. The best  
 trap on the market. No mole can  
 pass under this trap and live....75c  
**OIL, LAWN MOWER**. This is a hand-  
 can filled with fine oil, manufac-  
 tured expressly for lawn mowers,  
 bicycles, etc.....per can 15c  
**PLIERS WIRE**. For cutting wire..40c  
**POST HOLE DIGGERS, HERCULES**  
 \$1 25  
**POTATO HOOKS**. 4 tine.....60c



**HORTICULTURAL TOOLS AND SUNDRIES--Continued.**

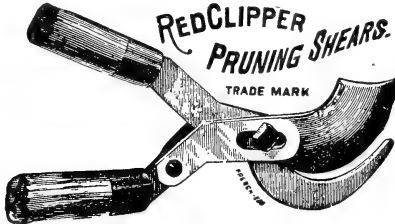
**PLANT BED CLOTH.** A cheap substitute for glass, answering many uses equally well. Light and easily shipped. It is of stout, tarred muslin that sheds water, protects against weather, etc.



**PLANT BED CLOTH—LIGHT GRADE.** Per yard.....6c  
 " " " " **MEDIUM GRADE.** Per yard.....10c  
 " " " " **HEAVY GRADE.** Per yard.....14c

Write for special prices on large lots.

**PRUNERS—LITTLE GIANT TREE.** To use on a pole...\$1 00  
 " **WATERS' TREE.** With pole, 4 ft., 60c; 6 ft., 70c; 8 ft., 80c; 10 ft., 90c; 12 ft., \$1.00.  
 Extra knives, 25c; by mail, 30c.



The best Pruning Shears; quality unsurpassed. The celebrated **Draw Cut.** Is hand forged from the best quality of shear steel. This shear has a slot in blade whereby we get a sliding cut, and the shank of the blade is so constructed as to have a hinge movement, enabling the operator to get a powerful leverage, and to cut a 2 inch limb with comparative ease.

No. 1, \$2.25. No. 2, \$1.75. No. 3, \$1.25.  
**PRUNING SHEARS, TIP TOP** .....\$0 75



**PRUNING SHEARS, HAND.**

German, 8 1/2 inch.....\$0 50  
 French, 8 inch.....1 25  
 Wiss, heavy, extra fine quality, 9 inch.....2 00

**PUTTY—TWEMLOW'S LIQUID**

**GLAZING.** For bedding glass in sash or for filling cracks or seams in roof joints or frames of greenhouses or hotbeds. It makes a solid bed, impervious to moisture and holds glass in its place, and will stop any crevice or fault. It is applied with machine, bulb or brush. One gallon will cover about 600 running feet (one side.)

Gallon.....\$1 50

**PUTTY BULB.** A useful tool for applying liquid putty and glazing greenhouses. \$1.00. By mail.....\$1 10

**RAFFIA.** The best tying material for plants, also used for making hats, baskets, etc. Per lb., 25c; 5 lbs., for \$1.00. If sent by mail 15c per lb. extra.



**RAFFIA COLORED.** For making baskets and fancy work in following colors; Black, Blue, Brown, Green, Orange, Pink, Red and Yellow.....2 oz., 10c; 1 lb., 60c.

If sent by mail 15c per pound extra.

**REEDS (RATTAN.)** For basket making, etc.  
 No. Oz. 1/4 lb. lb. No. Oz. 1/4 lb. lb.  
 1.....10c 35c \$1 25 4.....7c 25c 75c  
 2.....8c 30c 1 00 5.....6c 20c 60c  
 3.....7c 25c 75

If sent by mail add 2c per oz.; 5c for 1/4 lb.; 15c for 1 lb. for postage.

**STRAW BRAID.** An excellent basket and hat making material, and may be combined with Raffia with charming effects, in following colors: Natural, Bleached, Pink, Green, Old Gold and Red. 4c per yard; 10 yards 30c; 25 yards 50c. Full piece of 120 yards \$1.50.

**RAKES—STEEL GARDEN.** 8 teeth 35c; 10 teeth, 40c; 12 teeth, 45c; 14 teeth, 50c; 16 teeth, 55c.

" **ENGLISH DAISY.** For running over lawns tearing off Daisy and Dandelion flowers.....\$2 75

" **AUTOMATIC SELF-CLEANING LAWN.** Made of best hickory; 26 teeth.....60

" **OLE OLSEN.** Made of best hickory.....50

" **LAWN QUEEN. WIRE.** 24 teeth.....50

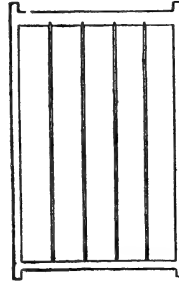
" **LAWN KING. WOODEN.** 22 teeth.....35

" **WOODEN LAWN.** 20 teeth.....30

" **WOODEN HAY.**.....20

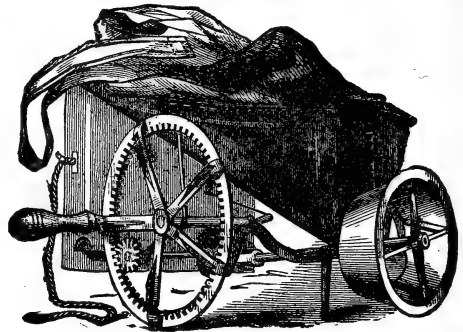
**SAWS, HAND.** Finest steel.....\$1.00 to \$1.25  
**SAWS—PRUNING.** 16-inch, 60c; 18-inch.....75  
**Double Edge**.....75

**SCISSORS—VINE.** English, for thinning grapes:  
 " 6 inch, \$1.00; 7 inch, \$1 25  
 " **BOW.** Pocket pruning, small, 50c; large.....1 25  
**FLOWER GATHERERS.** English, for holding flowers. Small size, 50c; large size.....1 25



**SASH HOT-BED UNGLAZED.** Made from strictly clear cypress lumber, and warranted perfect. White lead used on the tendons, and Iron Dowell Pins at the corners.  
 No. 1—3x6 ft., 3 rows, 10 inch glass each.....\$1 55 doz.....17 00  
 No. 2—4x6 ft., 5 rows 8-inch glass, each.....\$2 10 doz.....\$23 00

**SCYTHES—AMERICAN**.....\$0 90  
 " Weed or Brush 90  
 " **ENGLISH LAWN.** 30  
 " to 36 inches...\$1 25 to 1.50  
 " **SNATHE. PEERLESS** 75  
 " **STONES. TALACRE**  
 English round.....15  
 " **STONES.** Flat 7c; round 10



**SEED SOWER—CAHOON.** The difficulty in sowing is entirely overcome by the use of the Cahoon Broadcast Seed Sower, which can be handled with ease by an entirely inexperienced person and will sow much more evenly than can be sown by hand.....\$3 00

**SEED SOWER—LITTLE GIANT.** For sowing wheat, oats, ry, rice, flax, grass seed, clover seed, etc., in fact any kind of seed broadcast. They will save their cost almost daily in saving of seed, to say nothing about saving of time and more even distribution, which will have a great effect on the crop. It weighs but three pounds, is cheap and always in order.....\$1 50

**SEED TRYERS—Steel-pointed pocket, nickel-plated, with cap.**.....1 25  
 " Large, for sampling Orchard Grass, Blue Grass, Coffee, etc.....1 75

**SHEARS—GARDEN OR HEDGE.** With notch English.  
 " " " " Short handle 8-in.....1 25  
 " " " " 9-in.....1 50  
 " " " " 10-in.....1 75

" **GRASS EDGING OR BORDER.** For trimming overhanging grass around edges or walks, 10-in. 3 00  
**SHEARS—GRASS.** For trimming grass on edges and around flower beds.....30

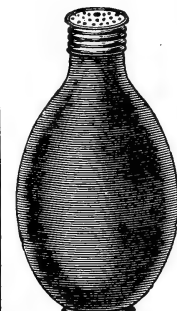
" Imported, English. The best manufactured.....75

**SHOVELS—STEEL.** Square point.....1 00  
 " Round point.....1 00  
 " Long handle square point.....1 20  
 " Long handle round point.....1 00

**SILKALINE—**For stringing smilax, etc. Fast green color will not fade or break. Two oz. spool.....20

**SPADES—Steel polished**.....1 00  
 " **NURSERY.** Steel extra heavy strapped.....1 50

**SPRINKLER, RUBBER—SCOLLAY'S.** Indispensable for floral work and window gardening.  
 Large size \$1.00. By mail \$1.10.  
 Medium size, 75c. By mail, 82c.  
 Small size, 50c. By mail, 55c.



**Scollay Sprinkler.**

**THISTLE OR DOCK CUTTERS.** Narrow blade, with handle for removing thistles or weeds from lawns; with foot rest.....50c

**TINFOIL—FLORIST'S FOIL.** Strictly first-class. Will run more sheets to the pound than any other make. Per lb. 15c

**HORTICULTURAL TOOLS AND SUNDRIES—Continued.**

**TROWELS—ENGLISH.** The best trowel in the world. It is of one solid piece of steel and will outwear several of the ordinary sort. 6-inch, 60c; 7-inch, 75c

**TROWELS—AMERICAN.** Solid shank . . . . .40c  
Riveted. . . . .6-in. 20c  
Ordinary. . . . .6-inch, 10c; 7-inch, 15c

**TROWELS—TRANSLANTING.** 6-inch, 15c; 7-inch 20c

**THERMOMETERS—JAPANED.** Tin case.  
**Common Grade** . . . . .8-inch, 15c; 10-inch, 20c  
**Medium Grade** . . . . .8-inch, 60c; 10-inch, 75c  
**Standard Grade.** Made with seasoned tubes; mounted by clasps on heavy metal; very accurate. 8-inch, 75c; 10-inch, \$1.00; 12-inch, \$1.25.

By mail, 10 cents each extra.

**Maximum and Minimum Self Registering** . . . \$3 00

**Hot-Bed or Mushroom** . . . . . 2 00

**Dairy, 10-inch glasses** . . . . . 25c

**Dairy, Standard Grade.** Hand graduated and very accurate. The tube is magnifying, and the entire Thermometer is exposed to view, as it floats in the cream at the middle bulb. . . . . 50c

**Incubator.** High-grade . . . . . 50c By mail 60c

**Brooder.** High-grade . . . . . 40c By mail 45c

**TREE GUARDS.**—Made of No. 8 Galvanized Wire—reinforced by 7 bands of Galvanized Wires—fitted with coil spring—6 feet high, 11 inches in diameter. \$1.25 each; \$12.50 per doz.

**WIRE FOLDING PLANT STANDS.**

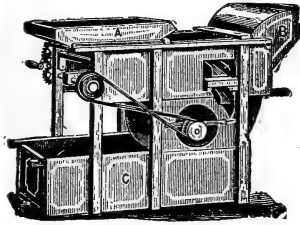
The most compact, strong durable Plant Stands. They pack closer than any other plant stand for shipment. The ends are made of flat steel and have porcelain castors. Can be opened or folded in a few seconds time by simply spreading the stand apart at the bottom, and dropping the cross bars into their places.

The construction of the shelves or trays are such that there is more room for the pots and foliage than any other plant stand that takes the same amount of room on the floor.

**3 Tray Wire Stand**—Trays 7 1/2 inches wide x 30 inches long, . . . . . \$3 00  
2 " " " " 7 1/2 " " x 30 " " . . . . . 2 25  
1 " " " " 10 " " x 33 " " . . . . . 1 50

**WIRE WINDOW SHELF FOR PLANTS.** Strong, compact, with adjustable steel brackets; can be applied to any window moulding on flat part of same. Brackets are constructed so as to allow for curtains between window and plants.

36-inch Shelf, by 7 1/2 inches wide, with Brackets complete, \$1.00  
42-inch Shelf, by 7 1/2 inches wide with Brackets complete, \$1.20



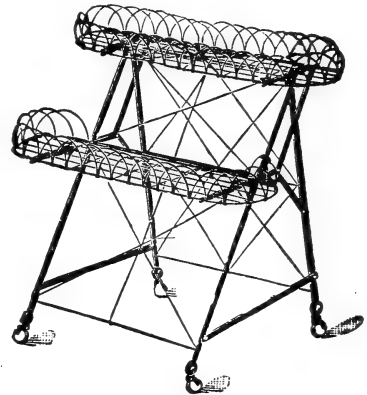
**Clipper Seed and Grain Mills.**

These mills are especially adapted for cleaning Grain, Clover and Timothy Seed.

Descriptive circulars and prices for Hand and Power Mills sent on application.

**BLUE GRASS STRIPPER.**

The only Hand Blue Grass Stripper in the market. It well made, nicely painted and varnished. A man can strip twenty bushels of seed per day with it. Weight, 4 pounds. . . \$1 25



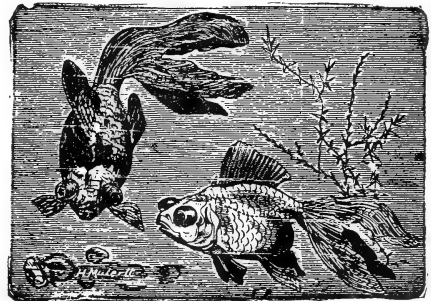
Wire Flower Stand.

**GOLD FISH.**

We carry in stock the following varieties of Gold Fish, all selected with greatest care to secure best qualities only, so that purchasers may rely on receiving best values for prices charged.

- TELESCOPE FISH**—\$1.00 to \$3.00 each.
- JAPANESE FRINGE TAILS**—Two and three years old, \$1.00 to \$5.00 each.
- JAPANESE FANTAILS**—50c to \$1.50 each.
- PARADISE FISH**—(Breeders.) \$3.00 per pair.
- GORGEOUS TAILS**—50c, 75c and \$1.00 each.
- COMETS**—25c, 50c and 75c each.
- AMERICAN FANTAILS**—25c and 50c each.
- PEARL FISH**—25c and 50c each.
- EXTRA COLORED AND SIZE COMMON FISH**—Two for 25c, \$1.25 per dozen.
- SMALL GOLD FISH**—Assorted colors, three for 25c, 90c per dozen.
- TIN BUCKETS FOR SHIPPING FISH**—Small size 10c each, large size 15c each, extra.

Gold Fish shipped by express only at purchaser's risk.



Hanging Fish Globes.

HANGING FISH GLOBES.		Each.	Doz.	Each.	Doz.
Size.					
5 1/2-in.—1/4-gal. actual capacity	...	\$0 25	\$2 75	9 1/2-in.—1 1/2-gal. actual capacity	\$0 60 \$6 50
6 1/4-in.—1/2 " "	...	30	3 25	10 1/2-in.—2 " "	70 7 50
7 1/4-in.—3/4 " "	...	35	4 00	12 -in.—3 " "	85 9 50
8 1/2-in.—1 " "	...	45	5 00		

Chains for fish globes, 10 cents each.

**FOOTED FISH GLOBES—Pressed Foot.**

	Each.	Dozen.	Each.	Dozen.
1 1/2-gallon actual capacity	\$0 75	\$8 50	1 1/2-gallon actual capacity	\$1 25 \$14 00
	1 00	11 00		1 50 17 00

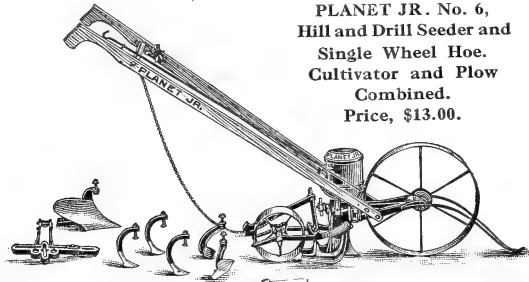
**AQUARIAS—Oblong.**

- Made of one piece of glass.
- No. 1.—2 1/2 gallons, \$3.00; with metal base . . . . . \$5 50
- No. 2.—5 gallons, \$7.00; with metal base . . . . . \$10 00
- No. 210.—Metal stand, Brass finished, height 32 inches, for 5 gallon Aquaria. . . . . 10 00
- AQUARIUM MOSS.** . . . . 10 cents per bunch—by mail 12 cents. . . . . **FISH FOOD.** . . . . 5 cents per box; by mail, 7 cents

# "PLANET JR." FARM AND GARDEN TOOLS.

Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue free to any one who desire it. "Planet Jr." goods are standard machines, the best, and you can rely on getting bottom prices from us.

**No. 3. Planet Jr. Hill and Drill Seeder.** 15 inch steel driving wheel, holds 3 quarts. The favorite among onion growers, market gardeners, etc.....\$10 00

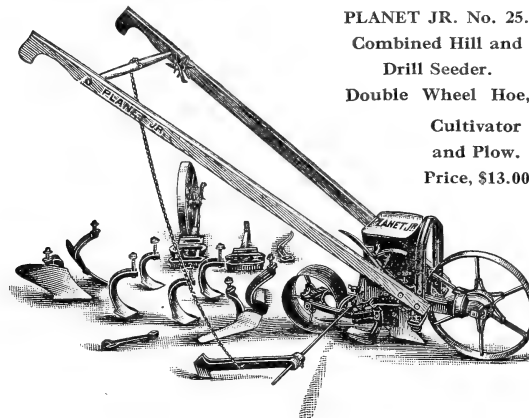


**PLANET JR. No. 6,  
Hill and Drill Seeder and  
Single Wheel Hoe.  
Cultivator and Plow  
Combined.  
Price, \$13.00.**

"Planet Jr." No. 6 Hill and Drill Seeder and Single Wheel Hoe.....\$13 00

This new tool drops in hills and sows in drills all garden seeds with the greatest regularity, in a narrow line, to any exact depth required; covers, rolls down and marks the next row, all at one passage.

Can readily be changed to a Single Wheel Hoe.  
"Planet Jr." No. 6 Hill and Drill Seeder, without Cultivator Attachments.....\$10 50



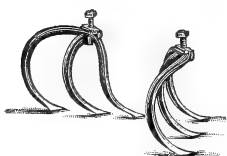
**PLANET JR. No. 25.  
Combined Hill and  
Drill Seeder.  
Double Wheel Hoe,  
Cultivator  
and Plow.  
Price, \$13.00**

This combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and prefer not to buy separate machines.

As a seeder it is practically the same as the No. 4; will sow in drills any thickness or drop in hills and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills.

As a Wheel Hoe it is identical with the No. 12, Double Wheel Hoe, the best machine on the market. The change from Drill to Wheel Hoe takes but a moment, and the whole combination is one we can heartily recommend and guarantee satisfactorily.

Price \$13.00  
**No. 18, Single Wheel Hoe, with Two 6-inch Hoes \$3 25**  
**No. 36, Single Wheel Hoe, Cultivator and Plow.**  
Wheel 16 1/2 inches high, making it easy running.....\$5 75



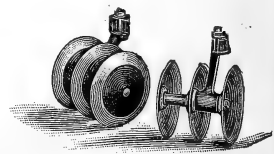
**Cultivator Teeth.**

**No. 19. Farmer's Single Wheel Hoe, Cultivator and Plow.** A cheap and effective wheel Hoe, high wheel and standard, slotted for depth regulation.....\$3 50

**No. 38. Single Wheel Disc Hoe, Cultivator and Plow.** 1 set discs, 1 pair 3 prong cultivator teeth, 1 plow, 1 leaf lifter.. \$6 50

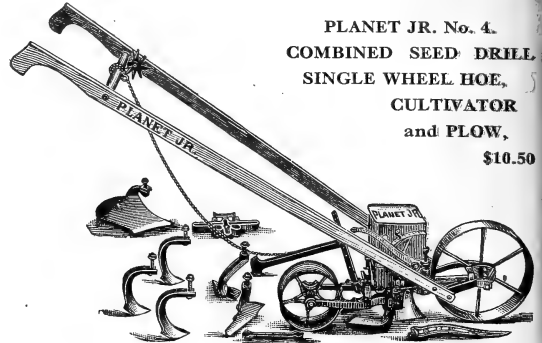
The disc and cultivator teeth attachments will fit the other single and double wheel hoes (except No. 19) and are sold separately

Discs, per pair.....\$2 25  
Cultivator teeth, per pair.....1 30



**Discs.**

**PLANET JR. No. 4.  
COMBINED SEED DRILL  
SINGLE WHEEL HOE,  
CULTIVATOR  
and PLOW,  
\$10.50**



This is the most popular combined tool made. It combines in a single implement a first-class hill-dropping seeder, a continuous row seeder, a Single Wheel Hoe, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills at 4, 6, 8, 12, or 24 inches apart.

The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. It is useful almost every day of the season, at every stage of the garden work. With this one implement the small farmer can do practically all the work in his small crops. Price, \$10.50

No. 4 as a Hill and Drill Seeder, only, \$8.50!

**PLANET JR. No. 17  
SINGLE WHEEL HOE.  
CULTIVATOR AND PLOW  
\$4.50**



For easy gardening, and at the same time clean and perfect gardening, the kind that will make your garden the talk of the neighborhood, and cause your face to glow with honest pride, nothing is quite the equal of this No. 17, Wheel Hoe. It is suited to all kinds of garden cultivation and all garden crops. You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17, has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work.

Other attachments can be added at any time.

Price, \$4.50

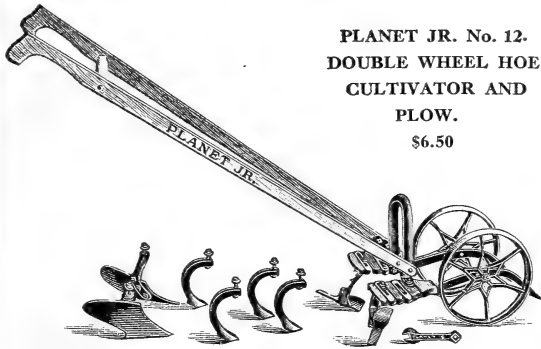
**No. 16. Single Wheel Hoe, Cultivator, Rake and Plow,  
Two 6-inch Hoes, Three Cultivator Teeth, One  
7-inch and one 4-inch Rake, A large Garden  
Plow and Leaf Guard.  
Price, \$5.35.**

**FIREFLY GARDEN PLOW.....\$2.35**



**“PLANET JR.” FARM AND GARDEN TOOLS. Continued.**

**PLANET JR. No. 12.  
DOUBLE WHEEL HOE  
CULTIVATOR AND  
PLOW.  
\$6.50**



Two acres a day can easily be worked with this implement, and when it is done it will be a better job than three men could have done in the same time with hand hoes. The No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then too, its so easy to work. Twelve-year-old girls work gardens with them with ease and success.

The No. 12 has one pair of 6-inch hoes, one pair of plows for opening or covering, and a set of 4 all steel cultivator teeth, and one pair of leaf lifters. The tools shown are what gardeners use most, and others can be added as wanted. Price, \$6.50

**No. 11 Double Wheel Hoe.** Has one pair of 6-inch hoes, one pair 4 1/2-inch hoes, two pairs hollow steel cultivator teeth, one pair plows, two 3-tooth rakes, two 5 tooth rakes and two leaf lifters. Price, \$8.50.

**PLANET JR. No. 14  
DOUBLE WHEEL DISC  
HOE, CULTIVATOR  
AND PLOW.  
\$7.50**



This new tool will give excellent satisfaction. There are three discs, oil tempered, which may all be used at once or two on a side, as preferred. With the leaf lifters the work can be done without danger of cutting off the leaves and injuring the plants. The discs are also adjustable for depth and to throw to or from the row as desired.

The set of prong cultivator teeth will be found invaluable in general cultivation. The tooth next to the row is narrow and is arranged to run shallow, the middle tooth is wider and runs deeper, while the outside tooth is much wider and runs deeper still, so that the work is finer and more delicate next to the row, to avoid injury to the roots of plants, and deeper in the center. The teeth are also set out of line from front to back, which makes them work with greater freedom.

This new combination is sure to prove popular in all sections. Price, \$7.50

**PLANET JR. TWELVE-TOOTH HARROW. CULTIVATOR AND PULVERIZER.**

Gardeners cultivate better than formerly. It has been found to pay best. The farmer or gardener is most likely to cultivate best who has the tool best adapted to this purpose. With the Twelve-Tooth Harrow here shown, you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil, mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It is a special favorite with strawberry growers, market gardeners and truckers.

Price without Pulverizer or wheel.....\$5 70  
Without Pulverizer..... 6 90  
Complete..... 8 50

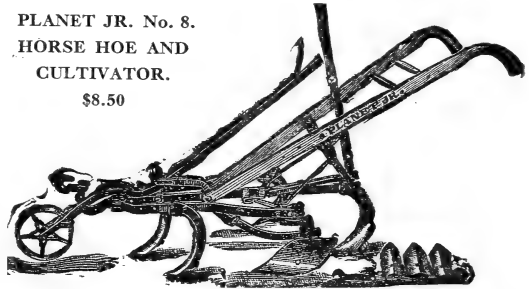
A strawberry runner attachment consisting of a 10-inch flat steel disc mounted on an outrigger.....Extra. Price, \$1.85.

**NO. 81.—Horse Hoe Cultivator and Hiller Combined.**

The latest and best tool of the kind. Has six 3-inch cultivator teeth, two 6-inch side plows and a 12-inch furrowing tooth, making an admirable equipment for all widths of cultivation and for hilling crops up to four feet apart.

It is very compact, and strong, and is sure to give entire satisfaction. It runs steadily, is the finest and best braced of all our one horse tools and leaves the crop just as you want it. Is an admirable hiller and furrower.....\$9 50

**PLANET JR. No. 8.  
HORSE HOE AND  
CULTIVATOR.  
\$8.50**

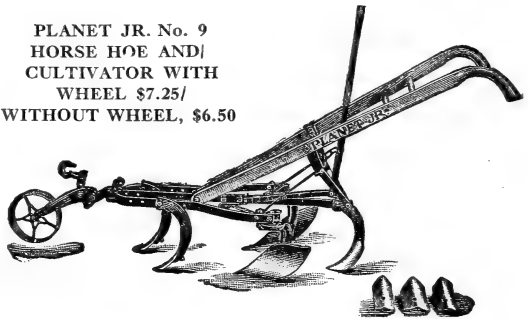


Probably no other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. You can do almost anything you want with it in the garden or field. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. You can set the hoes at any angle or reverse altogether, cultivate to any depth desired, and adjust for any width. Every part is perfected to make the tool acceptable to the intelligent farmer who knows the best is the cheapest. Price.....\$8 50

**No. 7, HORSE HOE AND CULTIVATOR.**

Same as the No. 8, without the depth regulator. It work the same as No. 8, in every way, except that it lacks the steadiness and control of depth made possible by the depth regulator. Price.....\$8 00

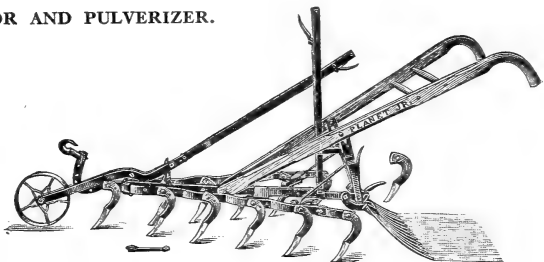
**PLANET JR. No. 9  
HORSE HOE AND  
CULTIVATOR WITH  
WHEEL \$7.25/  
WITHOUT WHEEL, \$6.50**



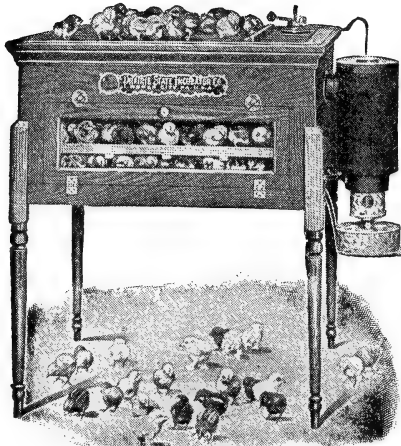
This tool has a plain wheel instead of the lever wheel. It has the high frame, patented hollow steel standards, patent lever, star wheel, new lever expander, and new hollow steel wheel arms. Price, with wheel.....\$7 25  
Without wheel..... 6 50

**No. 4, PLAIN CULTIVATOR.**

This popular cultivator, has been much stiffened and improved by our patent braces and expanders, identical to those used on No. 4 Horse Hoe. Has pressed steel wheel arms and standards. Price with wheel, \$4.75; without wheel, \$4.00.



# THE SAND TRAY PRAIRIE STATE INCUBATORS FOR 1911



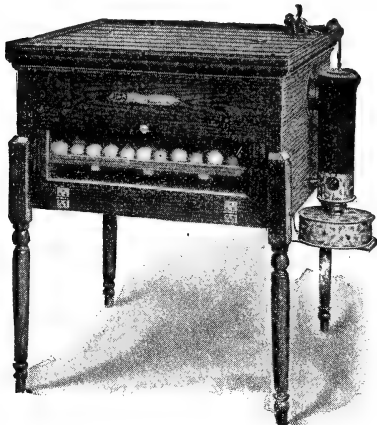
No. 1 Incubator.

### REGULATOR

The regulator is our new, improved, all-steel and zinc thermostat, built on new and original lines, very powerful, safe and sure.

### VENTILATION

To develop the growing germ strong in vitality requires an almost unlimited amount of pure fresh air. Ventilation in the Prairie State is two to three times as great as in any other machine, but does not pass through the eggs; it passes over the eggs. The eggs are ventilated by diffusion perfectly, but are not dried.



Junior No. 2.

### No. 2 JUNIOR INCUBATOR.

For years we have been receiving calls for a cheaper machine. This machine is as carefully built as the higher-priced machines and of just as good material. It being smaller, short cuts or trimmings from the larger machines are used in its construction. Less insulation is used in the walls than the regular machines. The outside case is of clear lumber, free from knots, smooth, filled and varnished natural wood. The case is double-insulated with cotton batting and papered insulation. The eddy-current system of heat distribution is used, double ventilation, direct current or diffusive, applied moisture, wet-sand tray; nursery for drying off and hardening the chicks, complete in every particular.

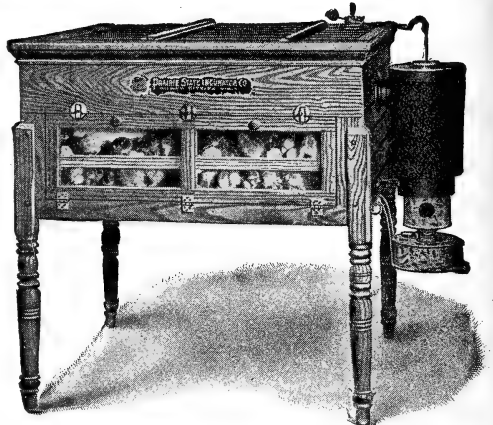
Twenty-seven years ago we began to manufacture incubators and brooders. We are still hard at it and learning more and more how to build them better every day. We determined to make the best machines on the market and we have accomplished it. To back up this statement we claim that the Prairie State Sand Tray Incubator will produce a higher percentage of "livable" chicks than any other machine on the market. This we can prove, not by our own tests, but by the results in the hands of their users.

Now we are too conscientious to claim that the Prairie State is hundred per cent hatcher. There are plenty making such ridiculous claims. But when we say that it will produce a larger percentage of "livable" chicks we mean chicks that will live beyond the critical period, chicks that are hatched with vitality enough to carry them safely over this point. No matter how many chicks you may hatch, it's the chicks that live that count for profit—the dead ones are a dead loss. If you hatch 100 chicks from 100 eggs and they are so weak that half or more of them die, as so frequently is the case during the first two weeks, your efforts are a failure. And why do such a large percentage of them die? Because they are improperly hatched. The fault is not in the brooder, not in the feed—but nine times out of ten it's the incubator.

It is not a difficult matter to get high per cent hatches but it is quite another thing to get a high per cent of "livable" chicks. That's where the value comes in the Prairie State over other machines. Some incubators may bring out nearly as many chicks, but wait ten days or two weeks and then count your chicks. That's the test. It's the number of chicks that live that tells the story of efficiency, and the Prairie State, owing to the fact that it hatches as near like the old hen as human ingenuity can copy nature, produces a larger number of chicks that live than any other machine and can prove it.

Don't be blinded by the old stereotyped claim of high per cent hatches. It's high per cent "livable"—strong, vigorous chicks that you want. That's what counts for success and profit. That's why you want a Prairie State. Every chick hatched in a Prairie State Sand Tray Incubator is bubbling over with vitality the minute it pops out of the shell and you can rest assured it will thrive and grow rapidly.

Read the following brief descriptions and if you want more information—more evidence of Prairie State superiority—write for our large illustrated catalogue—we gladly mail it free.



No. 2 Incubator.

### MOISTURE.

Did you ever notice the hen that steals her nest on the ground? That's natural incubation. And she usually hatches every egg, don't she? We've copied her. We use a wet sand tray, covering the entire bottom of the machine in close proximity to the eggs, thus furnishing the proper amount of moisture and reducing the evaporation from the eggs to the same per cent (9 to 11 per cent) as under a hen. This insures chicks full of vitality—chicks that live—just like hen-hatched chicks. Non-moisture machines hatch weak, small chicks of low vitality, hence the heavy death loss during the first two weeks.

### SPECIAL FEATURES.

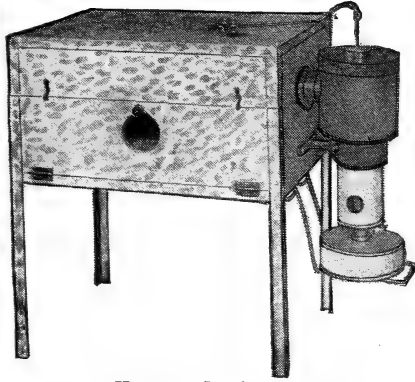
All Prairie State Incubators have slides for the trays on top of the machine for cooling and handling the eggs. The machine contains no diaphragms of any description. The egg-chamber is deeper than any other machine, giving plenty of head room and a large air space. Each machine contains double system of ventilation. Eggs may be ventilated by diffusion, or by the opening of a single slide a direct current downward can be secured through the eggs, and is intended to be used only in drying off the chicks after the hatch is over. The bottom of the machine is covered with burlap mat so it can instantly be cleaned. Every known feature that will aid the operator, save time, make results sure and easy, has been incorporated in this incubator. It has the widest latitude, will work under greater variations of outside temperature, dry or moist air conditions, than any incubator ever constructed. These machines at present are made in four sizes. Others will eventually be added.

### PRAIRIE STATE INCUBATORS.

No. 0.—100 hen eggs; 135 lbs. crated .....	Price. \$18 00	No. 2.—240 hen eggs; 240 lbs. crated .....	Price. \$32 00
No. 1.—150 hen eggs; 160 lbs. crated .....	22 50	No. 3.—390 hen eggs; 275 lbs. crated .....	38 00

### JUNIOR INCUBATOR.

No. 2.—115 hen eggs capacity 95 lbs. crated .....	\$15 00
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Keystone Incubator.

It is guaranteed absolutely in every particular and is furnished complete with egg tester, egg tray, tested Tyco's Thermometer, galvanized iron sand tray, automatic heat regulator. Full and complete directions for operating, price, sixty egg capacity, \$10.00.

**KEYSTONE INCUBATOR.**

**A GOOD INCUBATOR SELLING AT A POPULAR PRICE.**

This machine is double case, outside galvanized iron, inside case one inch soft wood, the space between the two cases insulated. The top with cotton-bating, the sides near air space and building paper.

No incubator, no matter what the selling price may be, has a better system of heat distribution, a better or more economical heater.

The machine is built in one of the largest incubator factories in the world. Has back of it thirty years of manufacture experience. It was designed by a practical poultryman and is successful and practical in every way. The latest and best principles in Artificial Incubation are incorporated in this machine.

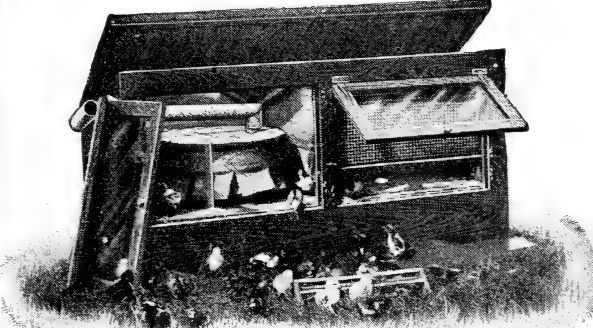
The low price at which this machine is sold is made possible only by our superior manufacturing facilities. By buying material in large quantities.

The HEATER is outside of the machine, a form of construction that adds much to the safety and ease of operation. The HEATER is covered with the best cellular asbestos jacket, the best obtainable, thus conserving the heat and preventing the loss of heat by radiation.

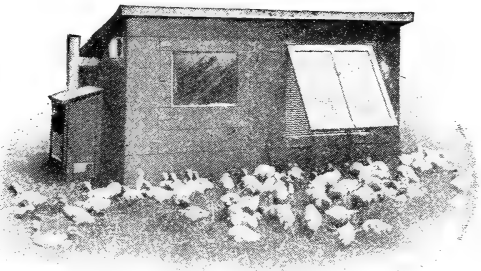
The Regulator is constructed of corrugated brass wafer, very sensitive and accurate in service with easy adjustments.

The legs are detachable, made of galvanized iron. The door, made of wood, covered with galvanized iron with a circular glass opening through which the thermometer may be seen without opening the door. The lamp is made of pressed steel, one-piece bowl, non-squash pattern, fitted with a heavy Miller Burner. No better lamp made or furnished with any incubator, no matter what the selling price may be.

**Prairie State Brooders and Universal Hovers.**



No. 2 Colony Brooder.



No. 1 Colony Brooder.

**PRAIRIE STATE COMBINATION COLONY BROODERS.**

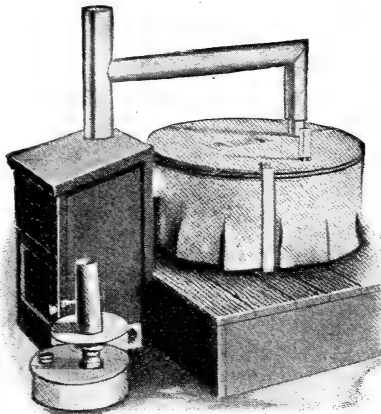
**PRAIRIE STATE OUTDOOR BROODERS** are made in three sizes and have a capacity of one flock, that is, any one of these brooders will hold as many chicks as it is practical to put together in one flock. This line of outdoor brooders is the most practical that has ever been placed on the market. They have been operated successfully in zero weather when the brooders were completely covered with snow. They have been operated with equal success in the same location during the hottest weather in August. In many brooders there was not sufficient floor or air space. Then it was necessary to raise the lid every time you wished to look at the chicks or the thermometer; the cold air would rush in or a blast of wind or rain, releasing all the heat, making it more like a refrigerator than a brooder. The old style brooder lacked sufficient ventilation for rearing chicks successfully. The Prairie State Brooder overcomes all these serious faults. It is sufficient size that chicks may remain indoors for weeks at a time, because they have plenty of room for exercise. The floor is on one level with no inclines to climb; the chicks never get lost or chilled. The thermometers may be seen from the front of the brooders without disturbing any of the doors. The chicks can be reached to feed, care for, or the brooder perfectly ventilated, without disturbing the roof. The hovers are all removable and may be transferred to another brooder when the chicks are of sufficient age and the entire space used for roosting on. These brooders have more virtue and fewer defects than any brooder that has ever been offered.

**PRAIRIE STATE UNIVERSAL HOVERS.**

**THE PRAIRIE STATE UNIVERSAL HOVER** has completely revolutionized the rearing of chicks. No device ever offered to the poultry-raiser has received such endorsement. In cold weather and hot weather, it has been an overwhelming success. As its name implies, our Universal Hover has a universal sphere of usefulness. There is practically no limit to its adaptability. As an individual brooder, in brood houses alone or in combination with a hot-water pipe system, or may be used as an indoor brooder in almost any kind of building. It may be attached to any form of outdoor brooder two feet or more in height, to any size or form of colony house, shed, coop, piano, dry-goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. It fills that want, felt by every one who raises poultry, for something they can use anywhere, any time, and do the work well.

The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward to which is attached six inches of felt curtains. The hover stands on three iron feet, but is not stationary, and may be raised and moved instantly, if desired.

A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 Sun Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot-air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1.00 to the regular price, a standard wafer regulator may be attached to the hover by the use of which a uniform temperature can be maintained without close attention.



Universal Hover.

**PRICE LIST. COMBINATION COLONY HOUSE BROODERS.**

No. 1.—(Outdoor), weight, crated, 300 lbs. ....	\$20 00	No. 3.—(Outdoor), weight, crated, 150 lbs. ....	\$12 00
No. 2.—(Outdoor), weight, crated, 208 lbs. ....	16 00		

Heat regulator attached to any of the above brooders \$1.00 extra.

**UNIVERSAL HOVER.**

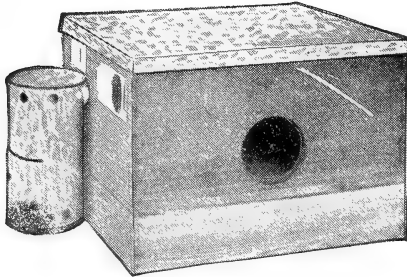
Price for hover, with lamp-case, smoke conductors, lamp and thermometer ..... \$7 00

When used indoors alone, lamp case is not required.

Hover and lamp with smoke pipes ..... \$6 00

With regulator attached, \$1.00 extra.

Large Illustrated Catalog on Request.



**Keystone Brooder.**

The floor has no obstruction of any kind, making the brooder exceptionally easy to clean. The top is hinged, giving ready access to the chicks. The hover is removable.

This brooder is furnished with the best grade of safety lamp, galvanized iron case and radiator inside of the brooder, hover, extra wicks, thermometer for obtaining the correct temperature of the hover, everything complete ready to run, price \$8.00, weight 59 lbs.

**KEYSTONE BROODER.** This outdoor brooder which may be used indoors as well, is 24 inches wide, 29 inches long, 18 inches high, constructed of 1-inch soft wood lumber throughout and painted, with a galvanized iron roof, four large ventilators covered with a wire gauze and galvanized shutters. Hover removable, containing a galvanized radiator to furnish top radiant heat to the backs of the chicks, the only practical up-to-date method of heat application.

This brooder is divided into two parts, hover and run, to which the chicks have access for exercise and for feeding. The lamp is placed in a galvanized iron case upon the outside of the brooder. Access to the lamp is readily obtainable through a hinged door in the case. Lamp smoke, by no possibility, can enter the brooder which is separated from and entirely distinct from the forced ventilation which enters the brooder and hover at all times. The smoke is exhausted in the upper part of the lamp case from which after passing through the radiator, finds its way into the outside air.

While this brooder is low in price it is practical and successful and makes a good running mate for the Keystone Incubator. This brooder is absolutely water proof. The floor is off the ground a sufficient distance to make it dry.

**BUCKEYE INCUBATORS. 50 EGG.**

Not an experiment, remember, but the same old satisfactory incubator that has stood the test for twenty-one years.

Our claim that "Buckeye 50 Egg Incubators are the best hatchers made, regardless of size or price" has never been questioned.

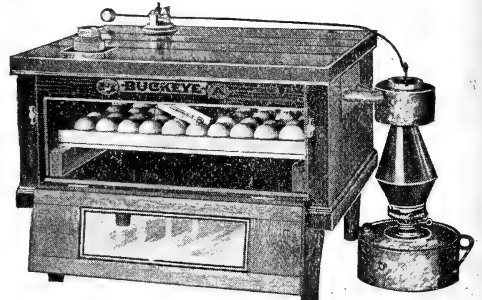
It can't be, we've proven it too many times.

**Guarantee**—This Buckeye Incubator is guaranteed to hatch a chick from every hatchable egg. The purchaser can operate it for forty days, and if it does not meet with their entire approval, it may be returned to our agent and the price paid will be promptly refunded.

**Equipment**—One tank and boiler, one lamp bowl, one burner with wick, one chimney, one thermometer, one thermometer holder, one complete Buckeye regulator, one egg tester and two egg trays.

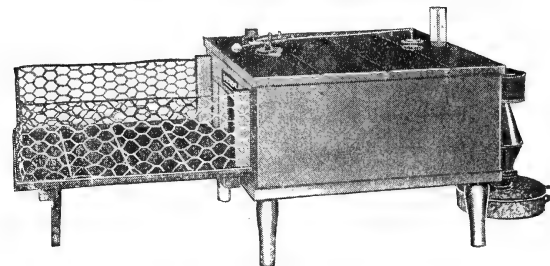
**PRICES.**

- Style A—Double walls.....\$8 00
  - Style B—Double walls..... 7 00
  - Style C—Single walls..... 6 00
- Send for descriptive catalogue.



**Buckeye Incubator.**

**BUCKEYE BROODERS. 50 CHICK.**



**Buckeye Brooder No. 1, In-door.**

**Equipment**—One tank and boiler, one lamp bowl, one burner with wick, one chimney, one thermometer, one complete regulator, one platform, one galvanized iron fence.

**PRICES.**

- No. 1—Hot Water System, indoor with yard.....\$6 00
  - No. 2—Hot Water System, out-door..... 8 00
  - No. 3—Lampless System, indoor with yard..... 5 00
  - No. 4—Lampless System, out-door..... 7 00
- Send for descriptive catalogue.

Chicken raising don't end with the hatching! Did you ever notice an old hen with her brood? Ever notice how she gets the chicks under her and keeps them warm?

That "keeping warm" process is called brooding and the thing that does it is known as a **brooder**.

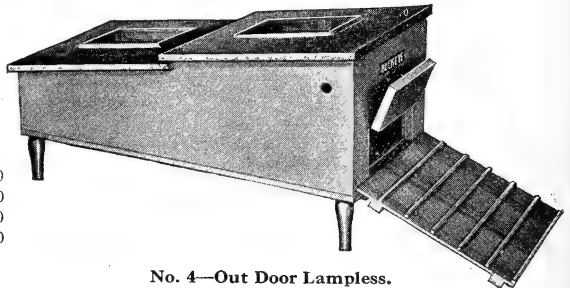
Every Chick must have a **Brooder**.

Whether it's an old hen or the kind we build, they must be kept warm or they can't thrive.

Did you ever notice how the little chicks act with the old hen?

First they eat while then they go in and get warm, then they eat again and get warm again, all day long.

Now we provide for all these conditions in every Buckeye Brooder.



**No. 4—Out Door Lampless.**

**EGGS FOR HATCHING. FROM THOROUGHbred STOCK.**

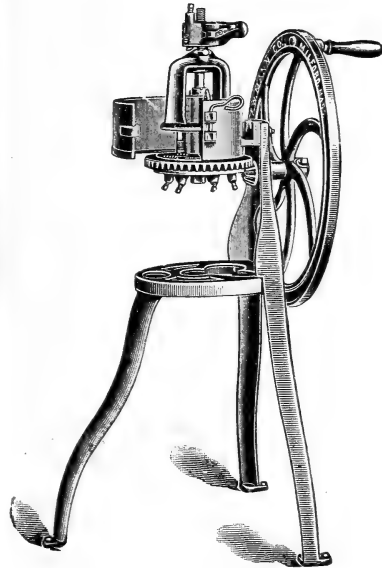
In selling eggs for hatching, no special guarantee is expressed or implied in regard to fertility. We guarantee all eggs to be standard bred stock and true to name. The fertility varies with the season, but we do not in any case send out Eggs that we know do not show a high percentage of fertility, and we can furnish Eggs as good as anywhere, regardless of the season. We allow no claim for breakage of Eggs or delay in transit. Eggs are carefully prepared for shipment according to the best methods known. They are delivered in first-class condition to the express companies, when all responsibility as to breakage or damage ceases, and we have no further control over the goods. Notice of shipment is sent by mail to all customers promptly.

Barred Plymouth Rocks.....\$2 00 for 15	Light Brahmas.....\$2 00 for 15	Black Minorcas.....\$2 00 for 15
White Plymouth Rocks..... 2 00 "	Dark Brahmas..... 3 00 "	Rhode Island Reds..... 2 00 "
Buff Plymouth Rocks..... 2 00 "	Buff Cochins..... 2 00 "	Cornish Indian Games..... 2 00 "
White Wyandottes..... 2 00 "	Brown Leghorns, Single Comb 2 00 "	Silver Spangled Hamburgs..... 2 00 "
Golden Wyandottes..... 2 00 "	Brown Leghorns, Rose Comb. 2 00 "	Golden Spangled Hamburgs..... 3 00 "
Silver Wyandottes..... 2 00 "	White Leghorns, Single Comb. 2 00 "	Black White-Crested Polish..... 2 00 for 13
Buff Wyandottes..... 2 00 "	White Leghorns, Rose Comb. 2 00 "	Silver-Bearded Polish..... 2 00 "
Partridge Wyandottes..... 3 00 "	Buff Leghorns, Single Comb..... 2 00 "	Pekin Duck Eggs..... 2 00 for 11

We can furnish Eggs from any standard bred poultry, also of ducks, geese or turkeys. We can also furnish Incubator Eggs by the hundred or thousand, almost any variety, on short notice. Prices the same, a matter of correspondence.

**WE HAVE MADE ARRANGEMENTS WITH RELIABLE SPECIALTY BREEDERS OF POULTRY TO HANDLE THEIR STOCK, AND ARE IN A POSITION TO OFFER THE LEADING AND POPULAR VARIETIES OF COCKS, COCKERELS, HENS, PULLETS, ALSO PENS AT REASONABLE PRICES. WRITE FOR DESCRIPTIONS AND PRICES.**

# MANN'S GREEN BONE CUTTERS.



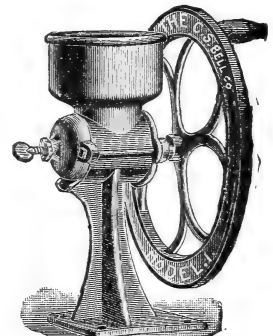
No. 7, \$12.00.

- No. 9. Intended for flocks of 200 to 300 hens. The description of No 7, will apply to this size also. The difference consists of larger cylinder, greater holding capacity, and larger table. Weight, 170 lbs. Cylinder, 9 inches in diameter, 6 inches deep. Capacity,  $\frac{1}{2}$  to 1  $\frac{1}{2}$  lbs. per minute. Price, \$18 40
- No. 11. Intended for large flocks when the machine must be run by hand a portion of the time. It has all the late improvements, special feed, anticlog, open cylinder, tight and loose pulleys, etc. Horse power required, 1 to 1  $\frac{1}{2}$ . Weight, 215 lbs. Diameter of pulley, 15 inches, 3  $\frac{1}{2}$  inch face; speed of pulley, 300 to 350 revolutions per minute, cylinder same size as No. 9. Capacity, 100 lbs. and upward per hour. Price, \$26 00
- No. 12. The machine for market men, or anyone who has large quantities of Bone to Cut. Capacity, 150 lbs. per hour. Weight, 260 lbs. Diameter of pulley, 16 inches, 4 inch face; speed of pulley, 300 to 350 revolutions per minute; diameter of cylinder, 9 inches. Horse-power required, 1 to 2. Price, \$30 00

## THE MODEL GRINDING MILL.

Grinds all kinds of feed for chickens and other domestic fowls and animals. Adjusted to grind fine or coarse. The buhrs are made of Steel-Alloy metal, and are the most durable grinding surfaces made.

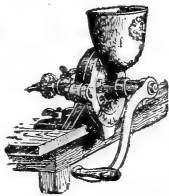
- No. 1, capacity  $\frac{1}{2}$  to 1 bu. per hour. Price, \$ 2 50  
 No. 2, capacity 1 to 1  $\frac{1}{2}$  bu. per hour. Price, \$ 5 00  
 No. 3, capacity 1 to 2 bu. per hour. Price, \$ 7 50
- The No. 3, can be furnished with an 8-inch pulley in addition to fly wheel, if desired.  
 Price complete, \$10 00



Model Grinding Mill.

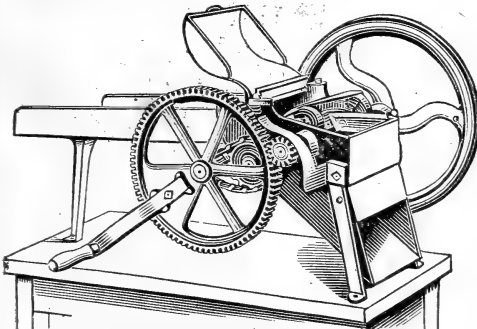
## BLACK HAWK GRIST MILL.

With a Black Hawk Grist Mill you can crack the corn or grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the age or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale. It will pay for itself. Weight of Mill, 17 lbs. Price, complete, \$3.00. Extra grinders, per pair 40c.



## MANN'S CLOVER CUTTER.

This machine is designed for the particular purpose of making the knife easy to sharpen and simple to adjust and that will not get out of order, it has but one straight knife to be cared for, made of the finest steel, securely fastened to a plate that can be set with positive accuracy, and yet can be removed in an instant. It cuts any kind hay or clover, either dry or green, and more rapidly than any other. Every revolution of the balance wheel produces twelve cuts.



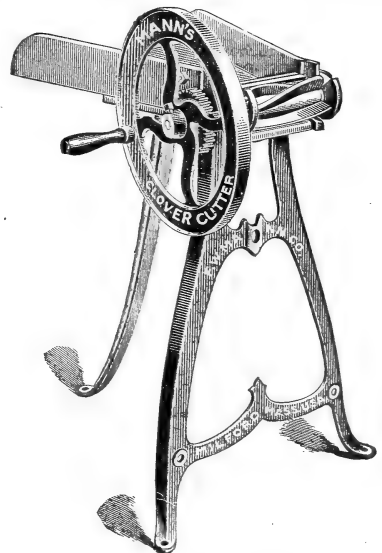
New Model Clover Cutter.

and most productive egg-forming poultry foods for cold weather. The "New Model" is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work indefinitely. Length over all 28  $\frac{1}{2}$  inches. The machine is intended to be mounted on a box or bench at any height to suit operator. Wt. 60 lbs. Price \$8.00

- It is strongly built. The workmanship is first-class, and it will last for years without repairs. Made either with or without the stand.  
 Price, without stand ..... \$8 00  
 With iron stand, all complete. .... \$10 00

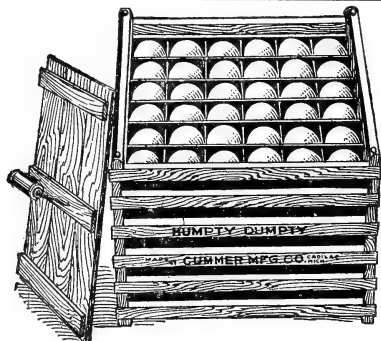
## "NEW MODEL" CLOVER CUTTER FOR POULTRY.

Removable steel knives, adjustable cutter bar; runs easy; cuts fine; is durable. The "New Model" Clover Cutter is designed for cutting either green or dry, such growths as clover alfalfa, vegetable tops, etc., into  $\frac{1}{4}$ -inch lengths. These growths are the cheapest



Mann's Clover Cutter.





# HUMPTY DUMPTY EGG CARRIER.

The Best, Cheapest and Most Convenient Egg Carrier in Existence.

The Original Folding Egg Crate has outclassed everything in its line. Made in 6 and 12 dozen size.

Price: 6 Doz. Size, 25c each; \$2.50 per doz.: 12 Doz. 35c each, \$3.00 per doz.

## IMPROVED PATTERN INSULATED BROODER STOVE.

An insulated safety brooder stove, which does away with the necessity for a water jacket or reservoir.....\$1 75

## WOOD'S REVOLVING EGG CABINETS.

Eggs intended for hatching should be turned daily; the warmer the temperature the more necessary that they be turned. Eggs for market should be turned every two or three days, if kept any length of time. We recommend these cabinets very highly. Prices; 150-egg size, \$2.90; 288-egg size, \$5.00; 560-egg size.....\$6 25

## WOOD'S PONY CABINET.

72-egg size.....\$1 00

## PRACTICAL EGG TESTER.

This tester is 18 inches high, 10 inches wide, 10 inches deep. The top is of galvanized iron. Very strong and durable. Price, complete, including box, lamp and reflector.....\$1 25

## X-RAY EGG TESTER.

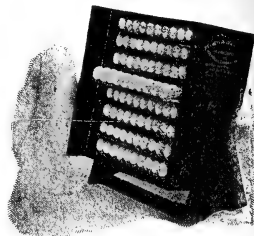
The X-Ray Egg Tester is used on an ordinary hand lamp, and fits over any style of burner with a diameter approximating that of the tester. Price of X-Ray Egg Tester, 30c each; postpaid, 40c each.

## ZERO SAFETY LAMP.

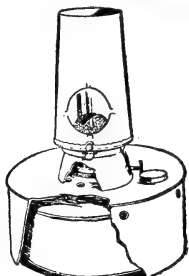
The Zero Safety Lamp carries off the heat as fast as it forms.

All the air used by the lamp is drawn up the sides, across the top of the oil tank, up the entire length of the collar and burner, thus carrying off the heat as fast as formed and keeping the oil cool.

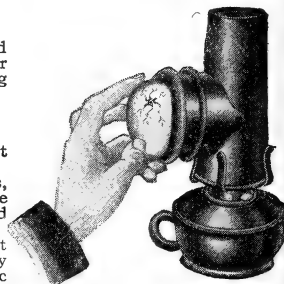
The Zero Lamp and chimney are made of the very best quality of galvanized iron, and the lamp is fitted with a heavy brass burner. Price of the Zero is \$1.00 each. By mail 25c extra.



Wood's Revolving Egg Cabinets.



The Zero Safety Lamp.



X-Ray Egg Tester.

## SHIPPING COOP-CYPHERS.

The lightest, strongest and most durable coop on the market. It is made from well-seasoned lumber and is extremely light; this reduces express charges. These coops are stripped knocked down. The sides are nailed to corner cleats, and the ends to top and bottom cleats; hence, all it's necessary for the poultry man to do to make ready for use is to drive one-inch nails in each corner.

There is not a better coop manufactured. They are wind-proof, strong, light and durable.  
 No. 2—10 1/2 inches wide, 18 inches long, 21 1/2 inches high, suitable for a single bird ..... 65c each  
 No. 4—10 1/2 inches wide, 24 inches long, 21 1/2 inches high, suitable for 2 birds ..... 80c each  
 No. 6—19 1/2 inches wide, 24 inches long, 21 1/2 inches high, suitable for pen of 5 birds ..... 90c each

## THE POTTER PORTABLE HENNERY OUTFIT AND VERMIN EXTERMINATOR ROOST.

Successful poultry raising depends so largely upon the care which the fowls are given, that no poultryman can afford to be without the best and most approved labor-saving appliances. Too few raisers of poultry realize the condition which may exist in their own houses until they have seen properly and well-equipped houses and heard of the paying results which may be had by installing such complete and convenient fixtures as we are offering. You cannot keep the quarters clean and in sanitary condition if you have not the means of doing it. To meet this want we now offer the most practical and efficient line of portable fixtures for the henry ever offered to poultrymen. Prices of Vermin Exterminator Roost range from 3 ft., 2-perch at \$1.00 each to 10 ft., 3-perch at \$3.00 each. Prices on complete outfits on application.

## LIGHTNING LICE KILLING MACHINE.

The Lice Killing Machine works on the same principle as a thorough dust bath. You put 8 to 10 full grown fowls or 30 to 50 chicks in it at a time and sprinkle only one teaspoonful of Lice Powder over them. The drum of the machine is then revolved slowly 8 or 10 times. No other work is required. When the chickens are taken out they will sprawl on the ground, shaking the Lice Powder with dead and dying insects from their feathers, just as though enjoying a fine dust bath.

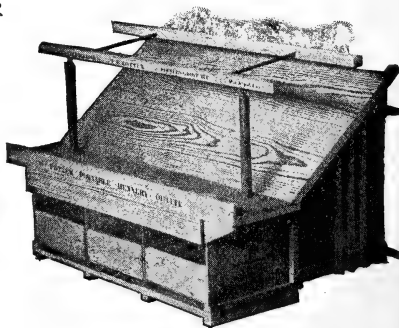
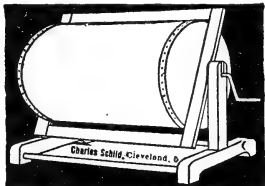
To be successful in getting winter eggs, keep your fowls free from the lice by using Lightning Lice Killing Machine.

It is best when the machine is used for the first time to give the chickens a special treatment in it ten days after the first, in order to kill the insects which hatch from nits, (insect eggs) deposited on the feathers.

No. 1 Machine, suitable for young chicks or pigeons ..... \$2 50  
 No. 2 Machine, suitable for either young chicks or pigeons, or to clean 8 Leghorns or 4 fowls the size of Plymouth Rocks at a time ..... 3 00  
 No. 3 Machine, suitable for chickens of the Mediterranean class and birds such as Turkeys, Cochins and Brahmas. This size is not suitable for young chicks or pigeons ..... 4 00

FREE.

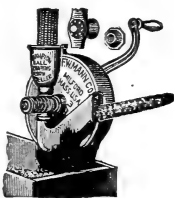
With each Machine one-half pound of special Lice Powder for use in the Machine is given free  
 Prices Subject to Change Without our Notice.



**CHAMPION BALL-BEARING CORN SHELLER.**

A cheap, good sheller that shells. It can be set to shell any corn that grows. No corn sheller can be purchased which contains so many points of superiority and excellence at anything like the price of this wonderful new machine. It is guaranteed to do the work satisfactorily.

Price.....\$2 00



**BLACK HAWK CORN SHELLER.**

This Sheller is simple, easily adjusted, and will shell clean all kinds of field corn. Its construction is such that it can not choke. Everything is furnished with the sheller necessary to clamp it to the box or board.

Price.....\$2 00

**PONY CORN SHELLER.**

This is a good, cheap Corn Sheller, made to meet the demands of the trade where an expensive corn sheller is not required, and where great durability is not necessary.

Price.....\$1 25



**BANNER ROOT CUTTER.**  
No. 7.

It quickly cuts vegetables in long, round, ribbon-like slices, which fowls eat up to the last morsel. It is a valuable addition to the poultry house, and highly recommended by the best poultry experts in the country.

Price: \$5.00

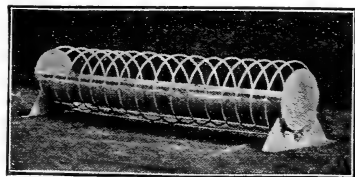


**FEED TROUGH.**

A convenient and food-saving appliance which every poultry feeder should appreciate. Is made strong and durable, of wood with cast iron ends, double bar turns so the hen will not perch on it. Size, 36 inches. Price: 75c each.

**THE AMERICAN FEEDER.**

The most practical Feed. Water or Mash Trough on the market to-day. It can be used between two pens or hung upon the wall. Will not rust or

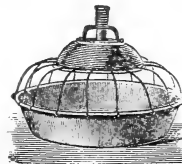


teak. Is made of galvanized iron and tinned steel wire. The spring guard prevents the chicks or fowl from polluting the food or water. The Trough is slid out of the end of guard. They cannot turn it over in any manner or waste the contents. Saves 25 per cent in food, and every bird gets its share.

3-inch Trough, 18 inches long.....\$0 50  
4-inch Trough, 24 inches long..... 75

**HALLOCK FOOD AND WATER HOLDERS.**

The use of Hallock Food and Water Holders prevents the chicks or fowls soiling the food or water. Where these holders are used, a saving of 15 to 25 per cent may be counted on in the soft food used. Price; Small (1 gal.) 75c; medium (2 gal.), \$1.00; large (3 gal.), \$1.25.



Hallock Food and Water Holders



**WALL FEED PANS.**

These wall pans are manufactured from galvanized iron so they can be hung upon the wall of the house at any height desired. Price: 35c each; \$3.50 per doz.

**FEED PANS.**

We have these feed pans in three sizes, made from galvanized iron; very strong and durable.

No. 1. 6x7x1 1/4 inch deep, capacity one qt.; price, 15c each; \$1.75 per doz

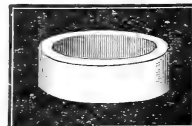


No. 2. 7 1/2 x 8 1/2 x 1 1/2 in. deep, capacity 1 1/2 qt.; price, 20c each, \$2.25 per doz.

No. 3. 18 x 6 x 2 1/2 in. deep, capacity 5 qts.; price, 35c each, \$3.75 per doz.

**STONEWARE RABBIT FEEDERS.**

These are in popular use by rabbit and Belgian hare breeders. They are meeting with a rapid sale and the demand increasing for them.



Price: 10c each, \$1.00 per doz.

**Stoneware Rabbit Feeders Sanitary Belgian Hare Feeder.**

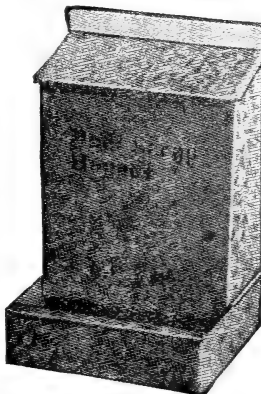
This feeder is substantially made from galvanized sheet steel, so arranged that two can feed at one time without interference, and impossible to waste the grain. The length of the box is 14 inches, 6 inches deep and 6 inches wide.

Price..... 60c each.



**Prairie State Grit and Shell Box.**—This box is made of heavy galvanized iron, with 3 compartments, for grit, oyster shell and charcoal. It is provided with a cover or lid, which protects the contents. The box may be suspended on the wall of the poultry building by the handle. Grit and shell box, each, \$0.50 Grit and shell box, per doz \$5.00

**Prairie State Beef Scrap and Dry Food Hopper.**—This hopper is made of heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef, scrap and dry mash, and will not clog. Capacity, 10 pounds scrap. Price, each.....\$0.50 Per dozen..... 5.00

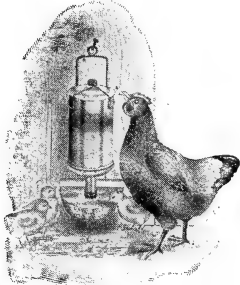


**Eyrie Egg Boxes.**

No. 1. 15 egg size, 15c each.....\$1.25 doz  
No. 2. 30 egg size, 20c each.....\$1.90 doz.

**Egg Boxes Paper.**

1 dozen size, 25c doz.; \$1.00 per 100; \$6.50 per 1000.  
2 dozen size, 45c doz.; \$1.75 per 100; \$12.00 per 1000.



Davis Food and Water Holder.

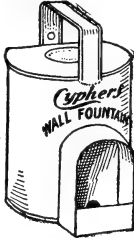
**WALL FOUNTAINS—GYPHER'S.**

These fountains are equally serviceable for young chicks or adult fowls, and especially useful.

Price:  
1 gal. size, 50c.  
2 gal. size, 75c.

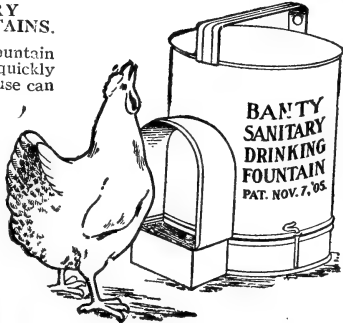
**DAVIS FOOD AND WATER HOLDERS.**

Can be used for water or grain, grit, shells, etc., 25c each; \$2.70 doz.



**BANTY SANITARY DRINKING FOUNTAINS.**

The only sanitary fountain that can be filled quickly and after filling at house can easily be carried to poultry yard. It protects the water at all times, cannot be fouled by wading or roosting; made of galvanized iron; is extremely simple and cannot get out of order. 1/2 gal. 50c; 1 gal. 75c.; 2 gal. \$1.00

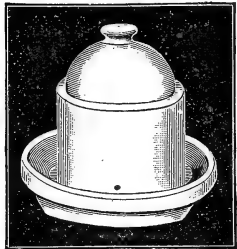
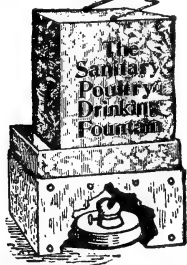


**GALVANIZED SANITARY DRINKING FOUNTAINS.**

Made of heavy galvanized iron and not injured by freezing. Prices; 1 gal. 50c. 2 gal. size, 85c

**GALVANIZED SANITARY FOUNTAIN HEATERS.**

For use on any size Galvanized Sanitary Drinking Fountain. Lamp burns 24 hours. Little expense and no danger. Great comfort for the poultry; promotes growth and increases eggs. Prices: 1 gal size, 50c. 2 gal. size, 60c.



Sanitary Stoneware Fountain.

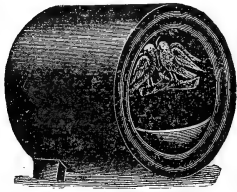
**SANITARY STONWARE FOUNTAIN.**

Made in two parts, a reservoir for the water placed above a saucer so that the chickens can drink from all sides. The top is removable allowing the font to be thoroughly cleansed inside. The proper thin to use where medicine is given in the drinking water.

1-qt., 20c each. \$2.00 doz.  
2-qt., 25c each. 2.50 doz.  
4-qt., 35c each. 3.50 doz.  
8-qt., 45c each. 4.50 doz.

**W. R. POULTRY FOUNTAIN.**

This fountain is made in one piece, strongly built; largely used for Pigeons. Prices 1/2 gal. 25c.; 1 gal. 35c.; 2 gal. 50c.



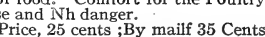
W. R. Poultry Fountain.

Atsatt's Chick Feeder meets a long standing want. Chicks cannot get into it to dirty the food. The top removes to fill or clean. Equally good for water or food. Comfort for the Poultry, is very little trouble. No expense and no danger.

Price, 25 cents; By mail 35 Cents.



ATSATT'S CHICK FEEDER



**POULTRY KILLING KNIFE.**

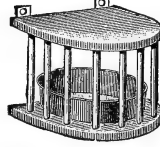
Every poultry raiser who kills and dresses for market should own one of these Knives. This knife penetrates the brain in such a manner that the feathers loosen and come off easily. Price—25c



**FOOD OR WATER CUPS.**

Made of galvanized iron, strong and durable. Hold 1/2 pint each; enough for all ordinary purposes. Can be made larger size if desired. The wires can be bent to secure them to any style coop and they will soon save their cost

in preventing waste of food. Price: Each, 15c; per doz., \$1.50. If to be sent by mail, add 5c for postage.



**CAGE FOUNTAINS.** For watering ducks or poultry. Can be hung or hinged to a wall. The dish is made from heavy galvanized iron, and freezing will not damage it.

No. 1, with a 3 1/2-qt. dish, 40c each.  
No. 2, with a 6 -qt. dish, 60c each.

**GALVANIZED PRAIRIE STATE DRINKING FOUNTAINS.**



These fountains are light, non-breakable and easily cleaned. They can be "nested" and shipped at a small expense. The small size fountain is just right for brooder use. Prices: Small size, 20c; medium size, 25c; large size, 35c. Special duck size, 50 c.

**WIRE NESTS.**

These nests are strongly made, from very heavy japanned steel wire, and will last a life-time. They are easy to keep clean and are far superior to wooden boxes.

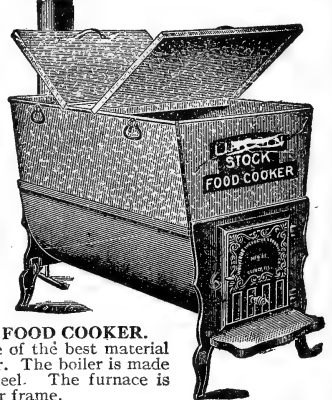
Prices: 15c each. \$1.50 per doz.

**PIGEON NESTS.**

Molded from clay, and are easily cleaned. Prices: 8 in. 10c. each, 3 for 25c; 10 in. 15c each, 2 for 25c.

**RELIABLE STOCK FOOD COOKER.**

This Cooker is made of the best material in a workmanlike manner. The boiler is made of No. 14 galvanized steel. The furnace is complete, consists of door frame, grate, plate, hearth and legs. The legs are cast separately so they can be packed to insure safe delivery.



Size.	Weight.	Length.	Price.
20 gals., for wood only	60 lbs.	24 in.	\$7 00
35 gals., for wood only	72 lbs.	30 in.	8 50
50 gals., for wood only	110 lbs.	30 in.	12 75
100 gals., for wood only	145 lbs.	46 in.	18 00
35 gals., for wood or coal	120 lbs.	30 in.	12 25
50 gals., for wood or coal	140 lbs.	30 in.	14 25
100 gals., for wood or coal	175 lbs.	46 in.	20 00

We will attach a 1/2-inch brass cock to the front lower right-hand corner, facing cooker, for \$1.25 extra. We will furnish a partition in any size cooker, so that you can cook two different kinds of food at any one time, \$1.25 extra.

We will furnish you with a heavy sheet iron top for the top of the stove part for cooker, so as to convert it into a camp stove for any size cooker, for the low sum of \$1.25 extra.

**GAPE WORM EXTRACTOR.**



This instrument is especially constructed for the purpose, and is the best Gape Worm Extractor manufactured. Price postpaid.....25c

**POULTRY MARKERS.**

The best way to keep a record of the chickens is by punching the web in the chick's foot, soon after hatching.

- Philadelphia Poultry marker ..... 25c
- Reliable Spring-lever Poultry Punch ..... 25c
- Petty's Poultry Punch ..... 25c

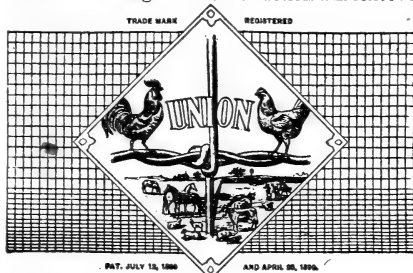
**THE JERSEY PIGEON PERCH.**

Made of the best seasoned maple and coppered steel wire. Screws in the woodwork of the loft. Will last a life-time. 3 inches in diameter, 7c each, by mail, 10c; 50, \$3.25; 100, \$6.00. 3 1/2 inches in diameter, 8c each, by mail, 10c; 50, \$3.50; 100, \$6.50.

**UNION LOCK POULTRY FENCING.**

The horizontal lines of this fence are all composed of two No. 20, galvanized steel wires twisted together. Beginning at the bottom, the first seven cables are 1 1/4 inch apart, then six cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of 1 1/4 x 3 inches at the bottom, where it is needed for small chicks; and above 2 feet, where fowls can reach only when on the wing, the mesh is 3 x 4 inches. The pickets are No. 19 galvanized steel wire and are 3 inches apart. The picket is fastened to the cables with the Union Lock, the same as is used in field and on hog fencing. On account of the picket being at right angles to the cables, this fence will fit any unevenness of the ground without cutting.

As all of the cables are of the same length, and run the whole length of the fabric, every part can be stretched perfectly. Because of its strength and construction this fence requires no top or bottom rail and no more posts than the ordinary w o v e n stock fence or about one-half the number needed for ordinary poultry netting. Union Fence is especially adapted for use where a light, attractive and neat appearing fence is required.



12-in. bale of 10 rods... \$1 50	48-in. bale of 10 rods... \$4 25
18-in. bale of 10 rods... 2 25	60-in. bale of 10 rods... 5 00
24-in. bale of 10 rods... 3 00	72-in. bale of 10 rods... 5 50
36-in. bale of 10 rods... 3 50	
48-in. extra heavy wire, bale of 10 rods..... 6 75	
60-in. extra heavy wire, bale of 10 rods..... 8 30	
47-in. Hog Fence, bale of 10 rods..... 4 50	
55-in. Hog Fence, bale of 10 rods..... 5 50	
Staples, per lb. .... 10	

**HEXAGON POULTRY FENCING.**

We also carry in stock for those desiring a cheaper wire. 2-inch Mesh. No. 19 wire.

Per bale 150 ft. long, 3 ft. wide..... \$2 60
Per bale 150 ft. long 4 ft. wide..... 3 40
Per bale 150 ft. long, 5 ft. wide..... 4 20
Per bale 150 ft. long, 6 ft. wide..... 5 00
Less than full bales, 75c per 100 square feet
1-inch Mesh. No. 20 wire.
Per bale 150 ft. long, 1 ft. wide..... \$2 00
Per bale 150 ft. long, 1 1/2 ft. wide..... 3 00
Per bale 150 ft. long, 2 ft. wide..... 4 00
Per bale 150 ft. long, 2 1/2 ft. wide..... 5 00
Per bale 150 ft. long, 3 ft. wide..... 6 00
Less than full bales \$1.50 per 100 square feet.

**REX FLINTKOTE ROOFING.**

Flintkote is the greatest value in roofing ever offered, and is the only roofing on the market which fulfills all requirements.

Flintkote is made in four thicknesses and weights, in rolls 36 in. wide. Each roll contains two squares and will cover 200 square feet and allow 2 inches for laps and butts. In the core of each are sufficient nails, caps and cement for laying. We recommend the 1/2 and 1-ply for ordinary purposes.

1/2-ply, weight 60 lbs., per roll of 200 sq. ft..... \$4 00
1-ply, weight 74 lbs., per roll of 200 sq. ft..... 4 50

**PARADUX ROOFING.** The only prepared roofing that can be painted any fancy color without injurious effect. The upper side of Paradux Roofing is covered with a heavy sheet of closely woven duck. This is affixed securely to a solid water proof sheet of cement. Paradux Roofing comes in three grades.

C Weight 60 lbs., per roll 216 square feet..... \$10 50
B Weight 75 lbs., per roll 216 square feet..... \$11 50

**IBEX WATERPROOF INSULATING, BUILDING AND SHEATHING PAPER.** The best non-conducting, waterproof building-paper for temporary and permanent structures, for all sheathing purposes, and especially for use under metal roof.

1-Ply, weight 31 lbs. per roll of 1000 sq. ft..... \$ 2 50	2-Ply, weight 41 lbs., per roll of 1000 sq. ft..... \$ 4 00
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**RED ROSIN SHEATHING PAPER.** This is a strong and durable Sheathing Paper, 30 inches wide, 500 sq. ft. roll. Comes in three thicknesses. No. 1, 20 lbs. to roll, 60c; No. 2, 25 lbs. to roll, 75c; No. 3, 30 lbs. to roll, \$1.00.

**TARRED FELT ROOFING.** Manufactured from tarred felt of good quality, and is put up in 108 square foot rolls.

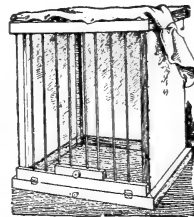
**TIN ROOFING CAPS.** One pound of tin caps is required for each roll of roofing. Price, 2-ply, 80c per roll; 3-ply, \$1.00 per roll. Price, per lb., 10c

**ROOFING NAILS.** One pound of nails is required for each roll of roofing. Price, per lb., 8c

**REX ROOF PAINT** Per gal., 75c; 5 to 10 gal. lots 60c per gal.

**McCULLOUGH EXHIBITION COOPS**

In offering these Coops we have combined attractive appearance with first-class material and workmanship, insuring durability. Quarter-inch iron rods in front and heavy canvas on ends, back and top; also fitted with a curtain at the top for closing down. Door is large and rises full height of the coop, while in front a small door at the bottom permits cleaning readily. Being put together with screws, can readily be taken apart for storing when not in use.



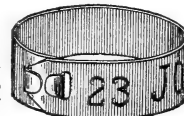
McCullough Exhibition Coop.

Single, pair or trio size \$2 00 each. Pen size \$2 50 "

**HALL'S AIR-CELL EGG MODEL.** Price, 25c; by mail, 30c.

**THE SMITH DOUBLE CLINCH LEG BANDS.**

A reliable open or removable band. Fastens with two clinches passing through the band in such a manner as to form a protection to themselves, making it at once the best open band on the market. Price: 15c per doz., 25 for 30c; 50 for 50c; 100 for 75c.



Smith Double Clinch Leg Bands.

**LEG BANDS FOR PIGEONS. OPEN BANDS**—One size only, suitable for any breed and any number desired. Price: per doz., 1c; \$1.00 per 100; postpaid, \$1.10.

**OILED MUSLIN.** Price, 14c per yd.; by the bolt, 40 to 50 yds. 12c per yd.

**PILLING CAPONIZING INSTRUMENTS.**

There is no doubt in the minds of up-to-date poultrymen as to the advantages of caponizing. The operation is very simple. Capons, sell on the market as a rule from 5 to 8 cents per pound higher than any other chickens. The demand for capons is always good and is steadily growing. Any one purchasing a set of these caponizing instruments will find he is making no mistake. Price, complete with full instructions in paper box, \$2.50; in velvet-lined case, \$2.75. We will send with each set of caponizing instruments a booklet entitled, "Complete Guide for Caponizing" fully illustrated.



**TRIUMPH CAPONIZING SET.** Japanned wood box, \$2.50. Polished hardwood box, \$2.75. Plush-lined cloth covered case, \$3.00.

**WE HAVE SOMETHING TO CROW ABOUT**

when we talk of Rex Flintkote Roofing and its superiority over all other roofing for farm buildings. If you want your buildings fully protected from heat and cold, rain and snow, fire and water, you should use



It keeps the poultry and stock warm and dry in winter and cool in summer. It does not pollute the water with which it comes in contact, leaving it available for all domestic uses. It comes ready to lay, and inside each roll is packed enough caps, nails, and cement sufficient for laying. It is excellent for lining the feed boxes in poultry houses and all other stock buildings, and rats and vermin will not attack it. Full particulars are given so any one can lay it. Send for our book, and free sample.



2-ply, weight 94 lbs., per roll of 200 sq. ft..... \$6 50	A Weight 95 lbs., per roll 216 square feet..... \$13 50
3-ply, weight 114 lbs., per roll of 200 sq. ft..... 8 50	

Prices: 2-ply, 80c per roll; 3-ply, \$1.00 per roll. Price, per lb., 10c

Per gal., 75c; 5 to 10 gal. lots 60c per gal.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

# POULTRY SUPPLIES.



Purina Poultry Feeds are balanced both Chemically and Practically to actually produce results. All practical poultry raisers use them.

## PURINA BABY CHICK FEED.

Composed of choice grain and seeds—more than a dozen kinds, carefully selected, perfectly granulated to precisely the right degree for the YOUNGSTERS, and screened CLEAN of all fine stuff. This makes a perfectly balanced ration for HEALTHY, HEARTY AND RAPID chick development, as well as best digestive results.

Per lb., 5c; 7 lbs., 25c; 25 lbs., 80c; 50 lbs., \$1.40; 100 lbs., \$2.50.



## PURINA ALFALFA CLOVER MEAL

Is pure Alfalfa, ground to meal, buds, stalk and all. It is nature's most perfect gift to the breeder of poultry or live stock. Used in the mash.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.20; 100 lbs., \$2.00.



PURINA  
CHICK  
FEED



## PURINA SCRATCH FEED. (Standard Hen Food.)

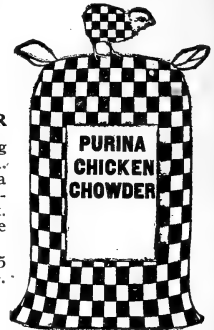
Made from a dozen varieties of choice grains and seeds, each selected to perform a special function in keeping the hens in PERFECT PHYSICAL and LAYING condition. These are mixed in proper proportions to make a REGULAR BALANCED RATION.

Per lb., 5c; 8½ lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.15; 100 lbs., \$2.00.

## PURINA CHICKEN CHOWDER

W This is a Dry Mash containing all elements lacking in scratch feed. And if fed in connection with Purina scratch feed, will produce the maximum number of eggs from any Flock. It is to be kept before the Flock all the time. Preferably in Hoppers.

Price: 5c per lb.; 8½ lbs., 25c; 25 lbs., 70c; 50 lbs., \$1.20; 100 lbs., \$2.00.



PURINA  
CHICKEN  
CHOWDER



## PURINA PIGEON FEED

This is a balanced Ration, being composed of Peas, Cracked Corn, Wheat, Kaffir Corn, Buckwheat, etc.

Price: 5c lb.; 6 lbs., 25c; 25 lbs., 85c; 50 lbs., \$1.50; 100 lbs., \$2.50.

PURINA  
PIGEON  
FEED

**SHORT-CUT ALFALFA.** The value of alfalfa as a portion of the regular diet of fowls can hardly be over-estimated. Its value has long been recognized by poultrymen and it stands pre-eminent among the grasses as a source of protein, lime and mineral salts in soluble and digestible form in fact, there is no grass, either green or dry, that approaches it in these particulars. The full feeding value of the grain food is better; obtained with the aid of alfalfa. Therefore, it is best to feed it daily. Alfalfa insures a larger percentage of fertile eggs, and adds to the luster of plumage.

Our Short-Cut Alfalfa is the result of the first process of milling. The stalks, leaves and blossoms are reduced to edible lengths and are retained in the first product. Long stems, weeds, etc., are removed by our special methods. Thus, having no waste, ours is far superior to ordinary cut alfalfa. When to be used with the mash, short-cut alfalfa is mixed dry with the other foods, then scalded or boiled with them, as the poultrymen desires. When fed alone it should be scalded and left in a trough for the fowls to eat at will.

Sold in 50 and 100 pound Sealed Bags.

Price per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.15; 100 lbs., \$2.00.

**CHICKSEAT.** Recognizing the demand for a well-balanced food for young chicks, which will give them the "right start in life," we have spent two years in perfecting this preparation, have thoroughly tested it, and are prepared to proclaim that it stands unrivaled for raising young chicks, Ducklings and Turkeys. It promotes health, Quick-growth, and Strong Development, forms Blood, Bone and Muscle. Splendidly aids digestion. Prevents weakness or "breaking down," constipation and diarrhoea in young chicks. "Chicks-eat" should be the first food for two or three weeks, after which it may be gradually decreased. . . 3 lb. pkg. 25c; 7 lb. pkg. 50c

**SPRATT'S PATENT CHICK MEAL.** It has been demonstrated and admitted by all experts that to rear birds successfully and bring them to the highest state of perfection, they must have, while very young, a food, and their corn diet must be carefully limited. Such is Spratt's Patent Chick Meal. The price seems high, but a trial will prove that it is the cheapest and most economical that can be used, when the directions have been carefully followed.

Prices: Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$6.25.

**SPRATT'S PATENT POULTRY FOOD.** Used at the principal poultry shows all over the world.

Prices: Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$6.25.

**BEEF SCRAPS.** We recommend our grades as the best of their kind to be had on the market. A trial will convince you of their superiority. High Protein Beef Scraps.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.60; 100 lbs., \$3.00.

**BEEF MEAL.** This food is made from pure, sweet meat, bone, blood and liquor from cooking, and is a food of great egg producing value.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.50.

**BLOOD MEAL.** Unexcelled as an Egg Producer; will make your hens lay, your chicks grow fast, and your fowls healthy.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$2.25; 100 lbs., \$4.00.

**GRANULATED BONE, POULTRY AND CHICK SIZES.** Will keep in any climate and any kind of weather if kept in a dry place.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.50.

**FINE GROUND RAW BONE MEAL.** Is ground fine, and is especially useful to mix with mash food.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.35; 100 lbs., \$2.50.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



**CRUSHED OYSTER SHELLS.**  
 Purchasing these goods in large lots, we can offer them at the lowest rock-bottom prices. Every poultryman realizes the advantages of using Crushed Oyster Shell, made in two sizes, Fine or Medium and Coarse  
 Prices: 5 lbs., 10c; 25 lbs., 30c; 50 lbs., 55c; 100 lbs., 75c.



Mica Crystal Grit.

**MICA CYRSTAL GRIT.**

This is one of the most popular Grits manufactured today. Contains valuable medicinal properties for fowls, such as sulphur and iron, and acts as a medicine as well as a grit. Is made in sizes suitable for poultry, pigeons, ducks, geese, small chickens and turkeys.

Prices: 5 lbs., 10c; 25 lbs., 30c; 50 lbs., 55c; 100 lbs., 75c.



Mica Crystal Grit.

**CHARCOAL.**

No poultryman can afford to be without Charcoal. It aids digestion and promotes the health of brooder chicks to a wonderful extent.

To meet the demand for a uniform quality of Charcoal, we have placed in the market our Hygienic Granulated brand in two sizes, Medium and Coarse, packed in cartons of about two pounds each at 10c per package.

**CHARCOAL IN BULK,** in three sizes fine medium and Coarse at the following prices.  
 1 lb., 5c; 6 lbs., 25c; 50 lbs., \$1.25. 100 lbs., \$2.25

**GRAIN AND SEEDS FOR POULTRY.**

Yellow Shelled Corn—5 lbs., 10c; 50 lbs., 75c; 100 lbs., \$1.40.  
 Cracked Corn—5 lbs., 10c; 50 lbs., 90c; 100 lbs., \$1.65.  
 Corn Meal—4 lbs., 10c; 50 lbs., 85c; 100 lbs., \$1.50.  
 Buckwheat—Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.10; 100 lbs., \$1.90.  
 Whole Wheat—Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.00; 100 lbs., \$1.80.  
 Millet—6 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00.  
 Oats, White or Mixed—5 lbs., 10c; 50 lbs., 95c; 100 lbs., \$1.75.  
 Sunflower Seed—10c per lb.; 4 lbs., 25c; 50 lbs., \$2.50; 100 lbs., \$4.00.  
 Hemp Seed—10c per lb.; 3 lbs., 25c; 100 lbs., \$3.50.  
 Flax Seed—10c per lb.; 3 lbs., 25c; 10 lbs., 60c.  
 Kaffir Corn—6 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.25.

**FULL NEST EGG FOOD.**

Gives the kind of health and strength that stays built up. Full nest Egg Food will help your birds through their moult. Makes the feathers develop normally and induces a high state of perfection in plumage.

Prices: 42-oz. pkg. (enough for 100 feeds for 15 hens), 25c; 25 lbs. in strong wooden pail, \$2.00.

**RUST'S EGG PRODUCER.**

Greatly increases egg production and makes poultry keeping in proportion to the outlay the most profitable of rural pursuits. You can feed Rust's Egg Producer every day for two or three weeks at a cost of one cent for each hen and get surprising results.

Prices: 1 lb. box, 25c; 2 1/2 lb. box, 50c; 6 lbs. box, \$1.00 17 lb. box, \$1.50; 25 lb. box, \$3.50.

**CLIMAX CONDITION POWDERS.**

We have never heard of a failure to cure either Fowl Cholera or Gapes with this powder if the directions were faithfully followed, unless treatment was delayed too long.

Prices: 15 oz., box, 25c; 32 oz. box, 50c; 5 lb. box, \$1.00; 8 lb. box, \$1.50 20 lb. box, \$3.50.

**PRATT'S POULTRY FOOD.**

A regulator, tonic and guaranteed egg producer. Cures chicken cholera, roup, gapes, and all diseases of the flock.  
 Prices: 26 oz. pkg., 25c; 5 lb. pkg., 60c; 12 lb. sack, \$1.25.

**COLUMBUS POULTRY FOOD.**

An excellent food for chickens, turkeys, ducks, geese and pigeons. Moulting fowls should never be without it. Young chickens are free from diseases if given this food, and grow healthy and develop rapidly.

Prices: 28 oz. pkg., 25c; 5 lb. pkg. 60c.

**LEE'S EGG MAKER.**

Supplies materials needed by all fowls, and which you must supply to both fowls and chicks in the domesticated state if they are to do well. Lee's Egg Maker is correctly proportioned to the meat balance of the ration, and it is fed daily, very little meat food need be given.

Prices: 2 1/2 lb. pkg., 25c; 25 lb. pails, \$2.00.

**PRATT'S HEAVE CURE.** A scientific, purely vegetable preparation that has been used for years. A single day's treatment helps the worst case of heaves. It cures coughs and colds by strengthening the digestive and respiratory organs; loosens the phlegm in the throat and counteracts the inflammation and irritation in the throat, price 50 cents.

**CYHER'S REMEDIAL OINTMENT.** Destroys head lice on chicks and young turkeys. A safe and sure cure for scaly leg chicken pox, etc., price 25 cents.

**CHOLERA CURE, CONKEY'S.**

A positive cure for Cholera, Bowel Trouble, Indigestion, Diarrhoea, Dysentery etc., used in drinking water. Price, 50c.

**GAPE CURE, CONKEY'S.**

A positive cure for this deadly and troublesome disease. Price, 50c.

**HEAD LICE OINTMENT, CONKEY'S.**

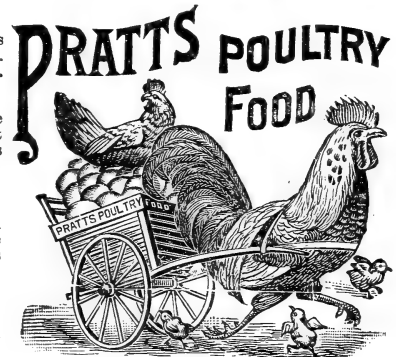
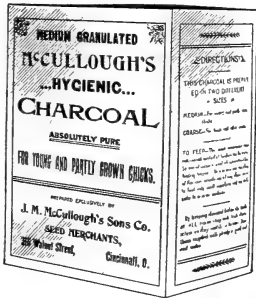
A non-poisonous article which is instant death to these murderous insects, but perfectly harmless to chicks. It is unexcelled for killing lice on children and for curing scaly legs on fowls. 1 oz. tin, 10c; 3 oz. tin, 25c.

The J. M. McCullough's Sons Co., Cincinnati, Ohio.

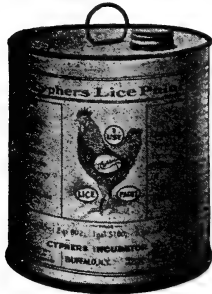
Gentlemen—The Roses and Bulbs I ordered from you last Spring were the finest in my yard. The White Rambler made shoots this season eight feet, also the Hyacinths gave entire satisfaction and were lovely.

Very truly yours,  
 AMY MIDDLEBROOK, Keeling, Tenn.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



TRADE MARK REGISTERED.



**CYPHERS' LICE PAINT.**  
A safe and sure liquid for killing all insects affecting poultry or stock. Especially prepared for killing all insect parasites of poultry. Also useful for killing all lice, mites and ticks affecting horses, cattle, sheep and hogs. It is safe and easy to use and at the same time stronger than any other Lice Killer, as it is not diluted with cheap adulterations, which would impair its effectiveness.

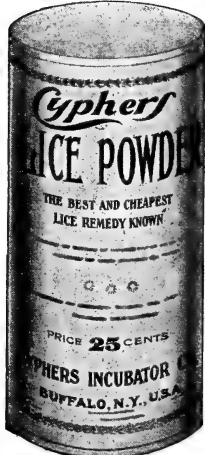
Prices: 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can \$1.00.



**LEE'S LICE KILLER.**

Lee's Lice Killer is a liquid preparation for destroying insects on chickens, hogs and other stock. Most convenient and economical way to apply is by using an insect sprayer.

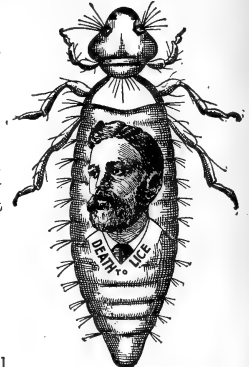
Prices: 1 qt. can, 35c; ½-gal. can, 60c; 1 gal. can, \$1.00.



**CYPHER'S LICE POWDER.**

Not a lice driver, but a lice killer. As an insect powder it has no equal. To get the best results from a lice powder, it must be worked thoroughly into the feathers, well down to the skin, and when used in this manner it will kill all the lice on the fowl.

Prices: 5 oz. pkg., trial size, 10c; postage prepaid, 15c.  
15 oz. box, 25c; postpaid, 40c.  
48 oz. box, 50c; postpaid, \$1.00.  
100 oz. pkg., by express at customers expense \$1.00.



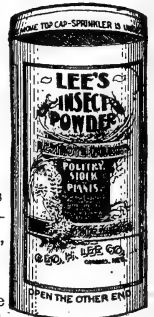
**LAMBERT'S DEATH TO LICE.**

Lambert's preparations for this purpose are standard, reliable goods, well known and used by poultrymen the country over. "Death to Lice" can be used as an insecticide for bugs on bushes or vines. If your hens are near your stable, sprinkle the horse brush before using, and your horses will be safe.

5 oz. box, Trial size, 10c; postpaid, 15c.  
15 oz. box, 25c; postpaid, 40c.  
48 oz. pkg., Farmer's size, 50c; postpaid, \$1.00  
100-oz. pkg., Poultrymen's size, \$1.00.

**LEE'S INSECT POWDER.**

Is intended for use on setting hens and little chicks. It is also of great value for insects on plants and vegetables and for general use about the household. Sprinkle under carpets and among blankets, robes, and furs for moths and carpet-beetles; also about sinks, closets, etc., for roaches or water bugs, 1½ lb. box, 25c.



**NAPCREOL.**

A highly concentrated, non-poisonous preparation which is made ready for immediate use by simply mixing with the required amount of water. One gallon of Napcreol will make 100 gallons of disinfectant. It is invaluable for the disinfection of poultry houses, stables, dog kennels, toilets, sinks, cesspools or any other place where a good germ and odor destroyer is needed. For poultry it is not only a valuable disinfectant, but will cure roup, diphtheria, cholera, gapes, canker,

Prices: 1 qt. 50c; ½-gal. 85c; 1 gal. \$1.50.

scaly leg and all parasites.

**GERMOZONE.**

A reliable cure for Poultry Diseases such as Roup, Cholera, Bowel complaint, Chicken Pox, Frosted Combs, Limberneck, Canker, etc. Not only a cure but equally as effective for preventing disease, price, 50c.

**TAROLINE CONKEY'S.**

A non-poisonous soluble disinfectant and germ destroyer; mixes with water. Price pint 35c; qts. 60c.

**KNOX LICE EXPELLING NEST EGG.**

The Knox Lice expelling Nest Egg is the standard combined nest egg and lice killer. The use of this nest egg insures absolute freedom from all kinds of insect pests in the nests. Being prepared with great care for this especial purpose, they last a long time, and always retain their effectiveness. Prices: 10c each, 75c per doz.

**PORCELAIN NEST EGGS.**

These eggs are made of first-class flint glass, and should last a life-time. Prices, 2 for 5c. Per doz., 25c.

**ROUP PILLS, RUSTS HAVENS.'**

For Roup, Catarrh, Colds, Pigeon Diseases, etc. They are unlike any other medicine, and, being composed of medicines in concentrated form, they are of moderate size, and therefore easy to give to fowls. Prices: Box of 50 pills, 25c; box.



The J. M. McCullough's Sons Co., Cincinnati, O.

Dear Sirs—In the Spring of this year I sent you an order for some Herbaceous Plants, and in due time they came to me in excellent condition. I am pleased to tell you that all the plants lived and thrived, beautifully during the summer, and we enjoyed the blossoms very much; the Hardy Phlox were particularly fine. Would further add that all the plants and bulbs I have bought from you at different times have been entirely satisfactory.

Washington, Pa., November 1st, 1905.

Very truly yours,

MISS NELLIE SEAMAN.

**ROUP CURE, McCULLOUGH'S.**

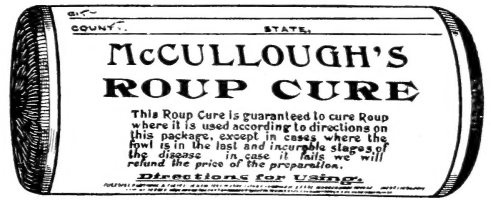
Next to Cholera, Roup is the most deadly disease affecting Poultry, consequently it is important that the remedy used may be safely relied on to effect a cure. In McCULLOUGH'S ROUP CURE we offer a remedy that we guarantee to cure Roup where it is used according to directions on package, and in case of failure we refund the price of the preparation.

Price: Small size package, 50c. Large size package, \$1.00.

**ROUP CURE, CYPHERS'.**

Cyphers' Roup Cure is used by simply dissolving the remedy in drinking water. Full directions for use with each package.

Prices: Large size, \$1.00.



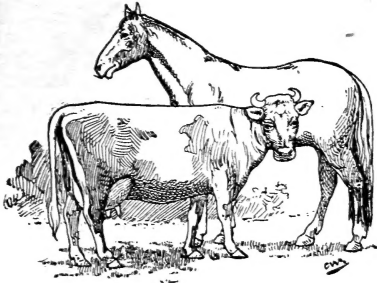
**ROUP CURE, CONKEY'S.**

Guaranteed by its manufacturers to cure Roup in all its forms. Simply put in drinking water. Prevents colds, and is unequalled for canker, especially in pigeons. Prices: Small size, 50c; Large size, \$1.00.

**THERMOMETERS—BROODER.** High grade, tested, 40c; by mail, 45c.  
**THERMOMETERS—INCUBATOR.** High grade, tested, 50c; by mail, 60c.  
**COOP SEALS.** Per doz., 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.

**ANTI-FLY PEST.**

Easy to apply, safe to use, lasting in effect. One application instantly relieves horses and cattle from all annoyances from flies and insects of all descriptions for at least 24 hours. Its effect on cows is wonderful. It insures them perfect rest and a chance to feed in peace and quiet, resulting in an increased quantity of milk with less food consumed. One gallon is sufficient to treat 300 cows. Prices: 1/2-gal. can, 50c; 1-gal. can, 75c; 5-gal. jacketed can, \$3.50.



**CYPHERS' MEDICAL CASE OF STANDARD POULTRY REMEDIES.**

Equipped with this medicine case, the fancier or poultryman will be prepared to ward off any disease that may attack his fowls. The ten remedies are put up in a neat, strong cloth-covered case. Each bottle is labeled, showing dosage and the disease which its contents will cure and prevent.

Complete directions for use are printed on the label of each vial.

- REMEDY No. 1—Cures Bronchitis, Croup and similar diseases.
- REMEDY No. 2—Prevents and cures Roup.
- REMEDY No. 3—Cures chronic Catarrhal Colds.
- REMEDY No. 4—Most reliable cure for Cholera.
- REMEDY No. 5—Cures Diphtheretic Roup.
- REMEDY No. 6—For all forms of Indigestion and Liver Diseases.
- REMEDY No. 7—Valuable in all Eye Diseases.
- REMEDY No. 8—For Rheumatism and Cramps.
- REMEDY No. 9—For Worms.
- REMEDY No. 10—For all Disorders of Egg Organs.

These remedies are in tablet form, and will not deteriorate or lose strength with age if kept in case, or otherwise protected from strong light, and will last the average fancier from one to five years.

Price, complete set postpaid, \$2.00; single vials, in strong, especially prepared mailing tubes, each, 25c, postpaid, 27c. Always Order by Number.



**SELECTED PIGEON SUPPLIES.**

English Maple Pigeon Peas.....	Per qt. 10c				
Canada Pigeon Peas.....	Per qt. 10c				
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Vetches.....	10c	10 lbs.....	60c	50 lbs.....	2 50
Hemp Seed.....	10c	3 lbs.....	25c	50 lbs.....	2 25
Tick Beans.....	10c	8 lbs.....	60c	50 lbs.....	4 50
Kaffir Corn.....	5c	6 lbs.....	25c	50 lbs.....	1 25
Hog Millet.....	5c	6 lbs.....	25c	50 lbs.....	1 40
Rock Salt.....	5c	5 lbs.....	10c	50 lbs.....	55
Fousts Health Grit.....	5c	6 lbs.....	25c	50 lbs.....	1 25
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				Per pk. 60c.	
				100 lbs.....	\$2 50
				100 lbs.....	4 75
				100 lbs.....	4 00
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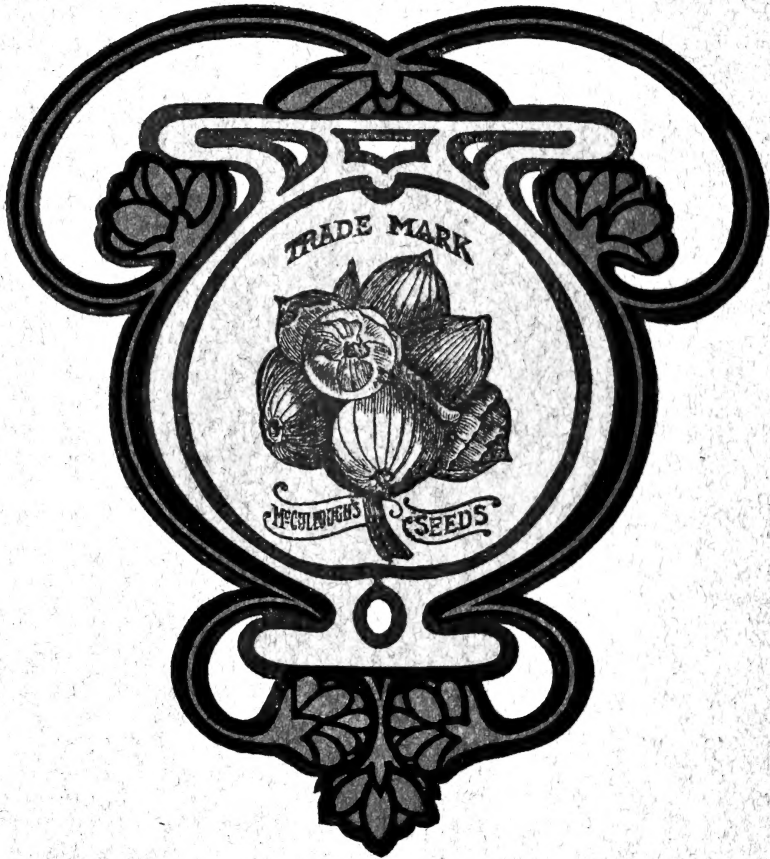


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