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J.M.M.

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J.M.M.  
Book No 20

ESTABLISHED 1838

**McCULLOUGH'S**

**SEED  
CATALOGUE**  
& AMATEUR'S  
GUIDE

1907

The J.M.  
McCullough's  
Sons Co.

316 WALNUT ST.  
CINCINNATI-OHIO

FOLGER-CIN.

1 9 0 7

With this issue of our annual Catalogue and Amateurs' Guide we enter upon the 68th 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 thirty-eight 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 69 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.

To secure success, however, it is necessary that the customer should do his part well, or his 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.

**We test all our Seeds** before sending them out, and while we exercise the greatest care to have all Seeds pure and reliable, we do not give any warranty, express or implied. If the purchaser does not accept seeds on these terms and conditions, they must be returned at once, and the money that has been paid for same will be refunded.



**THE J. M. McCULLOUGH'S SONS CO.**  
{ ALBERT McCULLOUGH, Pres. } { Established 1838. }  
{ H. B. McCULLOUGH, Sec'y. } { Incorporated 1904. }  
**Salesrooms and Offices, No. 316 Walnut Street,**  
BETWEEN THIRD AND FOURTH STS.  
**CINCINNATI, OHIO.**



Warehouses and Track Depot : 328, 330 and 332 EAST FRONT ST. 323 and 325 YEATMAN ST.  
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# ORDER SHEET.

**THE J. M. McCULLOUGH'S SONS CO., Cincinnati, O.**

316 Walnut Street, Between Third and Fourth Streets.

**VERY IMPORTANT.—Write your Name and Address Distinctly and in Full.**

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Name of Person .....

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" County .....

" State .....

" Express Office (If different from P. O.) .....

(Remittance may be made by P. O. Order, Express Money Order, Postage Stamps, Draft on New York or Cincinnati, or Cash by Express.)

Enclosed find Cash, . . . \$.....

" " Draft, . . . \$.....

" " P. O. Order, . . . \$.....

" " Express Money Order \$.....

" " Postage Stamps, . . \$.....

Please forward by ..... { State if wanted by Mail, Express, or Freight, and which Company.

**POSTAGE FREE.**—All Vegetable Seeds offered in **packets, ounces** and **quarter pounds**, are sent free by Mail, at prices quoted; **half pounds, pounds, pints, quarts** and **larger quantities** add 10 cents per pound or pint and 16 cents per quart.

**Order Flower Seeds by Number.**

Please use this Order Sheet for orders only, and carry out Catalogue price of each article. Write your letter on a separate sheet. By observing these directions, it will help us to fill your order with greater accuracy.

For further particulars and conditions of sale, see cover.

Quantity	Name of Article Wanted	Price	Quantity	Name of Article Wanted	Price

2nd Walnut Street, Between Third and Fourth Streets.

190

Date

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DUAN BROWN

THE J. M. McCULLOUGH'S SONS CO.

SELECTION OF NOVELTIES  
AND SORTS OF MERIT IN

Vegetable and  
Flower Seeds.



Round Pod Kidney Wax.

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., 25c; pk. \$1.50

**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. 25c; pk. \$1.40

**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.; 30c qt. \$1.75 pk.



Norwood Giant Stringless Green Pod.

**COLUMBIA BEET.** One of the finest main-crop Beets. Flesh deep blood red, tender and of rich flavor. The roots can be used early in the season when only partially grown, being ready for use almost as quickly as the Extra Early sorts, and of finer quality. It retains its fine quality until the Beets have reached their full size.

5c pkt.; 10c oz.; 20c 1/4 lb.; 60c 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.; 20c 1/4 lb.; 60c lb.

**HALF LONG BLOOD BEET.** 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, dark red flesh, sweet, crisp and tender, never becoming woody even in the exposed portion.

5c pkt.; 10c oz.; 20 1/4 lb.; 65c 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 1/4 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.; 10c pt.; 20c qt.; \$1.00 pk.



Columbia Beet.



Ohio Wax Pole Bean.

**Early Spring Cabbage.**

**EARLY SPRING CABBAGE.** Fully as early as the Jersey Wakefield, but the heads are of the round, flat type of early summer. It has very few small outer leaves, thus allowing it being planted as close as any variety known, and producing the largest number of heads per acre. Stem short and heart very small, making almost entire head fit for use. The quality is extremely fine. A great point in its favor is the fact that the heads harden at an early stage of growth, so that they are really fit for use before fully matured.

5c pkt.; 20c oz.; 50c  $\frac{1}{4}$  lb.; \$1.75 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 late..... 5c pkt.; 30c oz.; \$1.00  $\frac{1}{4}$  lb.

**MCCULLOUGH'S EARLIEST DWARF ERFURT CAULIFLOWER.** This has become more 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.; \$1.00  $\frac{1}{4}$  oz.; \$3.75 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.

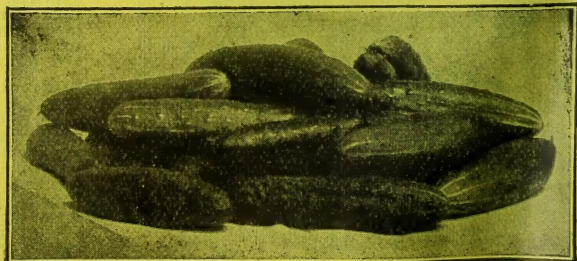
5c pkt.; 25c oz.; 85c  $\frac{1}{4}$  lb.

**SNOW WHITE CELERY.** A pure white, self-blanching variety, vigorous growth, ease of blanching, size richness of flavor, crispness and purity, makes it an ideal celery.

5c pkt.; 20c oz.; 70c  $\frac{1}{4}$  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 never grow pussy, and hold their color until nearly ripe, when they turn white without a sign of a yellow streak on them. 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.

10c pkt.; 25c oz.; 75c  $\frac{1}{4}$  lb.; \$2.50 lb.

**Paris Golden Yellow.****McCullough's Earliest Erfurt Dwarf Cauliflower****Davis Perfect Cucumber.**





Bon Ton Lettuce.

**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  $\frac{1}{4}$  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  $\frac{1}{4}$  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  $\frac{1}{4}$  lb.; \$1.00

**TILTON'S WHITE STAR LETTUCE.** A universal favorite for forcing or outdoor planting, on account of having large heads, bright color, crispness and long-keeping qualities. A valuable shipping sort, as it remains a long time in condition for use.

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

**ORNAMENTAL POMEGRANATE.** "Queen Anne's Pocket Melon." Grows on a pretty vine; its handsome fruit is a lemon yellow striped with dark orange, varying from size of a small peach to that of an orange. Very fragrant, sweetly perfuming a room with their pleasant odor for days. . . . .5c pkt.; 25c oz.

**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, ripening an enormous number of fruits. 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.; 10c oz.; 25c  $\frac{1}{4}$  lb.; 80c 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  $\frac{1}{4}$  lb.; 75c lb.

**TIP-TOP MUSK MELON.** A yellow-finished melon of handsome appearance and excellent quality. Strong grower and heavy yielder. . . . .5c pkt.; 10c oz.; 25c  $\frac{1}{4}$  lb.; 80c lb.

**BLUE GEM OR ICEBERG WATERMELON.** Grows large; skin and flesh darker than Kolb's Gem; ground portion yellow; sweet and delicious. . . . .5c pkt.; 10c oz.; 20c  $\frac{1}{4}$  lb.; 60c 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  $\frac{1}{4}$  lb.; 70c lb.



Wonderful Watermelon.

**KLECKLEY'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.; 20c  $\frac{1}{4}$  lb.; 60c 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  $\frac{1}{4}$  lb.; 60c lb.

**WONDERFUL WATERMELON.** Without a single exception, this is the sweetest Watermelon on 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.; 30c  $\frac{1}{4}$  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 ¼ lb.; \$1.00 lb.



Norwood Parsley.

**GRADUS PEAS.** The finest extra-early Pea yet introduced; 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.; 15c pt.; 30c qt.; \$2.00 peck.

**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 Earlies. A desirable Pea for the market gardeners as their large size, and the fine quality will make them a general favorite.

5c pkt.; 15c pt.; 25c qt.; \$1.25 peck.

**THOMAS LAXTON PEAS.** 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 size, wrinkled peas of the finest flavor. It is darker colored than the Gradus and hardier in constitution; three feet.

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

**McCULLOUGH'S CINCINNATI MARKET RADISH.** Much 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. Without doubt it is the finest Long Red Radish for forcing. 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 ¼ lb.; 75c lb.

**CIRMSON 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 ¼ lb.; 75c lb.

**EARLIEST WHITE GLOBE FORCING RADISH.** Oval shape, small root, small top, flesh white, tender and crisp.

5c pkt.; 10c oz.; 20c ¼ lb.; \$1.00 lb.

**DWARF STONE TOMATO.** The largest fruited of the Dwarf varieties. 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 ¼ lb.

**EARLIANA SPARKS' TOMATO.** The earliest smooth tomato, of good size and flavor. The plants are quite 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 ¼ lb.

**GLOBE LIVINGSTON'S TOMATO.** A beautiful globe-shaped variety. Among the first to ripen, although of large size; very smooth, firm fleshed, few seeds, ripens evenly; color a beautiful glossy rose, tinged purple. Flavor delicate and agreeable; splendid slicing variety. The fruit is borne on short-jointed branching plants in great abundance. A good general cropper, and one of the best for greenhouse growing or first early crop on stakes or trellis.

5c pkt.; 30c oz.; 80c ¼ lb.



Livingston's Globe Tomato.

# NOVELTIES AND SPECIALTIES

—IN—



## McGULOUGH'S SELECTED FLOWER SEEDS

**ANTIRRHINUM GRANDIFLORUM QUEEN VICTORIA.** This is the finest large flowering pure white Snapdragon, borne on long and graceful stalks; splendid either for borders or cutting.....10c pkt.; 3 pkts. 25c.

**ANTIRRHINUM GRANDIFLORUM FIREFLY.** Large flowering, brilliant scarlet. 10c pkt.; 3 pkts. 25c.

**ANTIRRHINUM GRANDIFLORUM ROMEO.** Large flowering, deep rose. 10c pkt.; 3 pkts. 25c.

**ANTIRRHINUM GRANDIFLORUM ROSEUM.** Large flowering, light rose, white throat.....10c pkt.; 3 pkts. 25c.

**ARCTOTIS GRANDIS.** (The African Lilac Daisy.) A handsome annual. Its flower-heads, borne on long stems, are from 2½ to 3 inches across; the ray florets being pure white on the upper surface, reverse of petals pale lilac. In bright sunlight the florets spread out almost flat, and the pure white of the ray florets contrasts beautifully to the light blue disk with its slightly projecting white stamens. Being of easy culture, the plants produce their splendid flowers abundantly from early Summer to Autumn.....10c pkt.; 3 pkts. 25c

**CELOSIA—MAGNIFICA.** A fine variety of true pyramidal branching growth, covered with handsome feathery plumes; the flower spikes range in color from yellow to darkest red. 10c pkt.; 3 pkts. 25c.

**CELOSIA 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 very pleasant contrast.....5c pkt.

**CEPHALIPTERUM DRUMMONDI.** (Australian Star Flower.) This unique and beautiful plant grows readily from seed in any ordinary garden soil, preferring a rather sandy one. Blooms early in the season and continues in bloom for a long time. The fragrant flowers are of a peculiarly pleasing rosy crimson shade, sometimes approaching pure white, are produced in large, graceful clusters which when cut will retain their form and color permanently, no other flower equaling it in grace and keeping qualities. Full-grown plants are about one foot high and the same across. Sow early in the open ground, or may be started early in the house and transplanted.

Half-hardy annuals, 10c pkt.; 3 pkts. 25c.

**CHRYSANTHEMUM SEGETUM HELIOS.** (Annual Golden Marguerite.) The flowers, which are 3 to 4 inches across, are a pure golden yellow of much substance, and last for several days when cut. In general appearance it resembles the Yellow Paris Daisy, requiring only the culture of an ordinary annual.....10c pkt.; 3 pkts. 25c

**CINERARIA STELLATA.** A charming variety, with large spreading panicles of starry flowers in the same variety of colors as the Hybrid Cineraria. The extreme grace and elegance of the plant and flowers make them wonderfully effective for the decoration of the house or conservatory. 25c pkt.; 3 pkts. 60c.

**DELPHINIUM ELATUM HYBRIDUM NANUM.** These semi-dwarf Perennial Larkspur will become great favorites, as the plants never reach over 3 to 3½ feet in height and develop a splendid and long continued show of bloom. They produce large flowers from the lightest celestial to the deepest Indigo. A bed of these hybrids makes a fine show when in full flower. They will bloom the first season if sown early.

15c pkt.; 3 pkts. 40c

**ESCHSCHOLTZIA, 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. A hardy annual, delighting in a rich soil.

10c pkt.; 3 pkts. 25c



Cephalipterum Drummondii.

**HELIOTHROPE, ROYAL HIGHNESS.** A magnificent heliotrope of rapid growth, forming immense plants that spread and climb to the height of 10 or 12 feet. It has large trusses of rich purple flowers, and is a profuse bloomer. As a covering for walls, bay windows, hedges, or as a pot plant, it is invaluable.....10c pkt.; 3 pkts. 25c

**HOLLYHOCK, 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

**NASTURTIUM, QUEEN OF TOM THUMBS.** Flowers rich bright Crimson, which forms a pretty contrast to the silver variegated foliage and is a strikingly handsome and useful bedding plant. It is free-flowering; dwarf and compact.

10c pkt.; 3 pkts. 25c

**NICOTIANA SANDERAE.** The whole plant is laden with flowers from base to summit—literally ablaze with handsome carmine red blossoms, thousands of which are produced on a single plant. Seed sown early in the season, transplanted into boxes, and planted out in May in the position where they are intended to flower

10c pkt.; 3 pkts. 25c

**PANSY—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 combination of 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.

40c 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 in the world. 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.

1/4 oz. \$2.00; 25c pkt.

**POPPY—IRRESISTIBLE.** A splendid giant poppy, resembling an immense paeony. Color light red, shaded lighter at edge of petals; strikingly beautiful

5c pkt.

**POPPY—MAID OF THE MIST.** A magnificent, single white Poppy. The flowers measure from 7 to 9 inches across, and are deeply and irregularly fringed. The ovary, encircled with its fringe of stamens and white fluffy petals, suggest a pretty face looking out from the mist.

5c pkt.

**SALVIA SPLENDENS SILVER SPOT.** The leaves are rich dark green, with light sulphur or cream colored spots of various size liberally sprinkled over them. The intense bright scarlet flowers are very large.

10c pkt.; 3 pkts. 25c

**SALVIA SPLENDENS TRIUMPH.** Extra early flowering, rich velvety scarlet. The finest and largest variety

15c pkt.; 2 pkts. 25c

**SCABIOSA CAUCASICA PERFECTA.** Fine, large and fringed variety. One of the handsomest hardy perennials, especially adapted for cutting, the blooms lasting as long time in water. Flowers pale blue, large, and very bright.

10c pkt.; 3 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 flower 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 most 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



Nicotiana Sanderae.



Masterpiece Pansies.



Salvia Splendens Silver Spot.

**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. Uniformly of enormous size, unusual substance, of waved or fluted appearance and charming blendings of harmonious colors, these new seedlings can only be described as Gigantic Orchid-flowered. Borne profusely upon long stout stems, there are three and four flowers to the stem. The standard measures two inches across.

- The following varieties new Sweet Peas. .10c pkt.; 15c 1/2 oz.; 25c oz.
- BLACK MICHAEL.** Pure maroon, self colored, large size, open form. The standard is round and glossy on back.
- COUNTESS SPENCER.** Bright, clear pink showing a little deeper at the edges. The form is open and the margins of the petals are wavy. Both standard and wings are very large.
- EVELYN BYATT.** Standard, scarlet orange; wings rose orange. Medium size open form.
- GLADYS UNWIN.** Bright light pink, a little deeper at the edges. Very large size, open form with wavy edges.
- HELEN LEWIS.** Standard crimson orange; wings, orange rose, very large size; open form with wavy edges.
- HELEN PIERCE.** 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.
- JOHN INGMAN.** Rose carmine, showing veins of deeper shade, very large size, open form with wavy edges.
- PHENOMENAL.** White, shaded and edged with lilac. Very large, hooded and the lower blossom on the stem is usually double.

The above named varieties. . . . . 10c pkt.; 15c 1/2 oz.; 25c oz.  
**PREMIER COLLECTION NEW SWEET PEAS.** 8 varieties.  
 1 packet of each, 40c.



Sweet Peas.

**McCULLOUGH'S PREMIER MIXED SWEET PEAS.** 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.; 10c oz.; 25c 1/4 lb.; 75c lb.

**SWEET PEAS IN COLLECTIONS.**

To induce our customers to give our Large Flowering Sweet Peas a trial, we offer the following special collections. The varieties offered are the very best of the large Flowering Sorts. Special price.

No. 1— 6 pkts. large flowering varieties . . . . .	20c
No. 2—12 pkts. large flowering varieties . . . . .	35c
No. 3— 6 1-oz. pkts. large flowering varieties . . . . .	40c
No. 4—12 1-oz. pkts. large flowering varieties . . . . .	75c

**CANNAS—New and Rare Varieties.**

- KING HUBERT.** Flowers under ordinary cultivation, 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 a 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.
- 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.
- PRES. MEYER.** A glorious Canna with large flowers in immense trusses; color rich cherry-carmine, producing a gorgeous effect; bronzy foliage; 4 feet.

**DAHLIAS—New Cactus.**

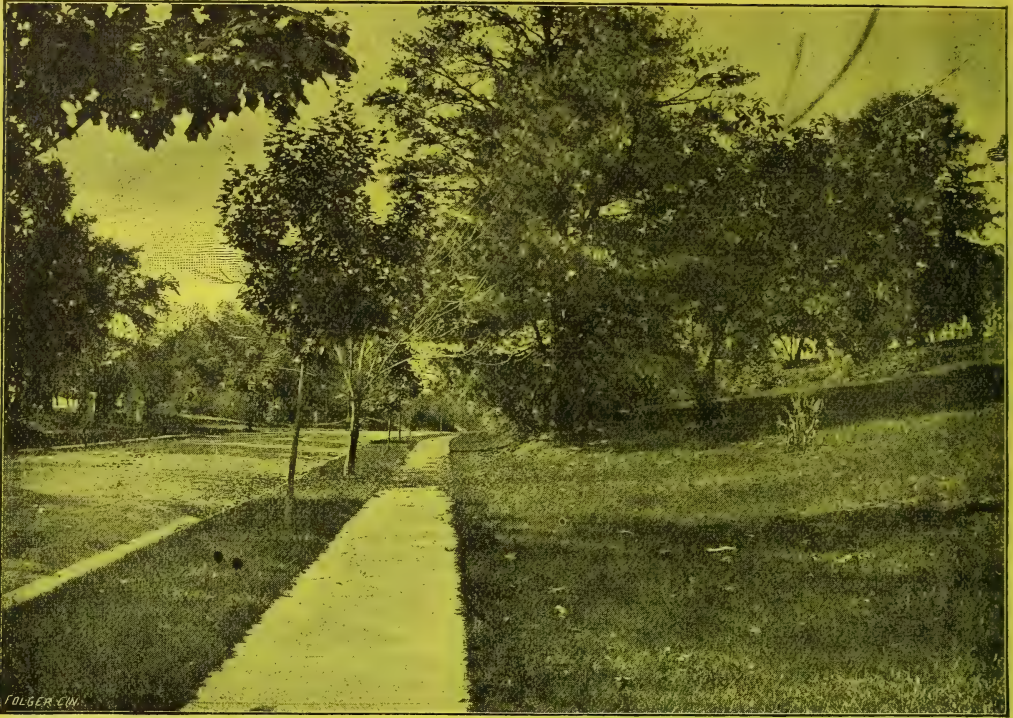
- FLORADORA.** Beautiful scarlet crimson. Fine Cactus form, full to the center, and fine pointed petals; good size, the plant of medium height, branching growth and free bloomer.
  - GABRIEL.** An exquisite shaped flower, long, incurved, twisted petals; color pleasing combination of scarlet and cinnamon shades, sometimes tipped white. One of the most distinct and striking in form and color.
  - GENERAL BULLER.** Dark crimson shaded velvety maroon, each petal tipped white, rich and striking; an early and profuse bloomer.
  - KREIMHILDE.** One of the best of all cactus dahlias, large size, free bloomer and the best of all for cut-flowers on account of its long keeping qualities; color clear, bright pink, tinting lighter toward the center petals.
  - MRS. J. P. CLARK.** Very large fine flower, with long, twisted incurved petals, salmon shaded pink, tipped white.
  - VOLKER.** Pure canary yellow, beautiful form, an early and extremely profuse bloomer, plants continually covered with blooms.
- Above Named Varieties, strong field grown roots. . . 15c each, \$1.50 doz.

**DAHLIAS—New Decorative.**

- BLUE OBAN.** One of the finest decorative dahlias, early and extremely profuse bloomer, large size, lilac shaded blue.
  - CATHERINE DUER.** Flowers of immense size; opens out flat, and shows no center. The petals are broad and well formed; color beautiful glowing red, strong robust grower, and free flower.
  - MRS. ROOSEVELT.** Immense size, delicate blush pink; strong, vigorous grower; one of the finest of all dahlias; strong roots.
- 25c each, \$2.50 doz.
- SYLVIA.** Beautiful clear pink, tinting lighter toward the center, especially fine for cutflowers.
- Above Named Varieties, strong field grown roots. . . 15c each; \$1.50 doz.,  
 Except where priced.



Decorative Dahlias.



View of Lawn at "The Pines," Residence of Albert McCullough.

## 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 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 half pound for renovation.

**HOW TO MAKE A LAWN.** A fine lawn is an unfailling 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 four bushels (64 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, 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 lb.) 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. 30c; 5 lbs. \$1.40; 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. 80c; 1 bu. of 16 lbs. \$2.25. By mail 10c per lb. extra.

DEPARTMENT OF

VEGETABLE SEEDS 1907



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 will 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 seeds in packets only.

ALL OUR PACKETS ARE WELL FILLED WITH THE BEST SEEDS.

ARTICHOKE.

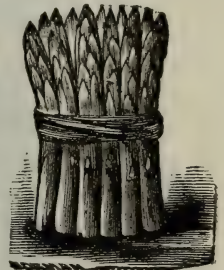
Sow in April in rich soil, and transplant the following spring to permanent beds, in rows or hills, three feet apart and two feet between plants.

- LARGE GLOBE. Grown for the unripe flower heads..... 5c pkt., 25c oz., 90c 1 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 buyer's expense. Plant three bushels per acre.

ASPARAGUS (Spargal, Ger.)

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

IN 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 very 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 1/2 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 rotted 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 salt. 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.	1/2 lb.	lb.
BARR'S MAMMOTH. A fine, large-stemmed green variety.....	\$0.05	\$0.10	\$0.20	\$0.60
COLUMBIAN MAMMOTH WHITE. Pure white stalks, large size and finest quality.....	5	10	20	65
CONOVER'S COLOSSAL. One of the best varieties, large and productive.....	5	10	20	50
PALMETTO. An improved variety. Very early and a good yielder.....	5	10	20	60

ASPARAGUS ROOTS.

	Per 100	Per 500	Per 1000
BARR'S MAMMOTH. Two-year-old roots.....	\$1.00	\$4.25	\$7.00
COLUMBIAN MAMMOTH WHITE. " " " ".....	1.00	4.25	7.00
CONOVER'S COLOSSAL. " " " ".....	.80	3.75	6.00
GIANT ARGENTEUIL. " " " ".....	1.25	5.00	9.00
PALMETTO. " " " ".....	1.00	4.25	7.00

The J. M. McCullough's Sons Co., Cincinnati, O. Piqua, Ohio, September 14, 1904.  
 Gentlemen—Our last order from you duly received in good condition, and find all to be 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 the 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., 25c.; peck, \$1.50

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

Per pkt., 5c.; pint, 15c.; qt. 25c.; peck, \$1.50

**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.

Pkt.	Pt.	Qt.	Pk.
05	15	25	\$1 50

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

05	15	25	1 50
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**FLAGEOLET WAX.** Flat, yellow, stringless, pods of great size.

05	15	25	1 50
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**GOLDEN WAX.** Very early and productive, of excellent quality, being very crisp and tender.

05	15	25	1 50
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**JONES' STRINGLESS WAX.** Pods are long, perfectly round, and exceptionally solid, of a delicate light yellow color, perfectly stringless; retains its brittleness and fine table quality when nearly matured.

05	15	25	1 50
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**PENCIL POD WAX.** Pods round, long, thick and fleshy; absolutely stringless; prolific, excellent quality.

05	15	25	1 50
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**VALENTINE WAX.** The earliest Wax Bean. The pods are round, very 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.

05	15	25	1 50
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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.** Produces enormous crops of delicious Lima Beans.

05	15	25	1 50
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**BURPEE'S BUSH LIMA.** A bush form of the large white Lima. The bushes grow eighteen to twenty inches, of stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush, an immense yielder, each bush bearing from fifty to two hundred of handsome pods and very large beans.

05	15	25	1 60
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**DREER'S BUSH LIMA.** A Dwarf variety of the Drear's Improved Lima, it is prolific, grows close together in pods, and are thick, sweet and succulent.

05	15	25	1 60
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Iola, Kan., September 10, 1905.

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.



Round Pod Kidney Wax.



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.

Pkt. Pt. Qt. Pk.

<b>NORWOOD GIANT STRINGLESS GREEN POD.</b> 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.....	05	15	25	\$1 40
<b>BURPEE'S STRINGLESS GREEN POD.</b> 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	25	1 40
<b>MCCULLOUGH'S IMPROVED ROUND POD RED VALENTINE.</b> Our stock of this is extra choice. This variety is usually ready to pick in thirty-four days after planting. The pods are very 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	10	20	1 25
<b>BOUNTIFUL.</b> An improved Long Yellow Six Weeks, being earlier, hardier, and producing better and and larger pods and more of them. The pods being absolutely stringless, tender, of finest flavor and good appearance.....	05	10	20	1 25



Norwood Giant Stringless Green Pod.

Pkt. Pt. Qt. Pk.

<b>LONGFELLOW.</b> Pods about 6 inches long, pale green, straight and round, of delicious flavor, extremely early and a most abundant bearer.....	05	10	20	1 25
<b>EXTRA EARLY REFUGEE.</b> Early and productive, will stand a light frost; one of the best string or pickling beans.....	05	10	20	1 00
<b>IMPROVED REFUGEE, OR THOUSAND TO ONE.</b> Medium or late variety, extensively grown for pickling.....	05	10	20	1 00
<b>LONG YELLOW, SIX WEEKS.</b> Very early, productive, and a good shell bean.....	05	10	20	1 00
<b>HORTICULTURAL DWARF.</b> Excellent quality as a shell bean, either green or dry.....	05	15	25	1 40
<b>WHITE KIDNEY, OR ROYAL DWARF.</b> A superior kind for baking, and is also excellent when shelled green.....	05	10	20	1 00
<b>RED KIDNEY.</b> Similar to White Kidney, except in color.....	05	10	20	1 00
<b>WHITE MARROWFAT.</b> Grown for sale as a dry bean for winter use; excellent shelled, either green or dry.....	05	10	20	1 00
<b>MEXICAN OR PROLIFIC TREE.</b> 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	15	90
<b>NAVY.</b> The old standard sort for winter use.....	05	10	15	90



McCullough's Improved Round Pod Red Valentine.

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

Windom, Texas.

Gentlemen—The Garden Seeds purchased of you last Spring gave entire satisfaction. I have planted your seed for the past six or eight years in another state, and I have never found any seed that gave the satisfaction that I have received from yours. I have always recommended your house to my friends, and it will give me pleasure in the future to refer my friends and neighbors to you.

Yours very truly,

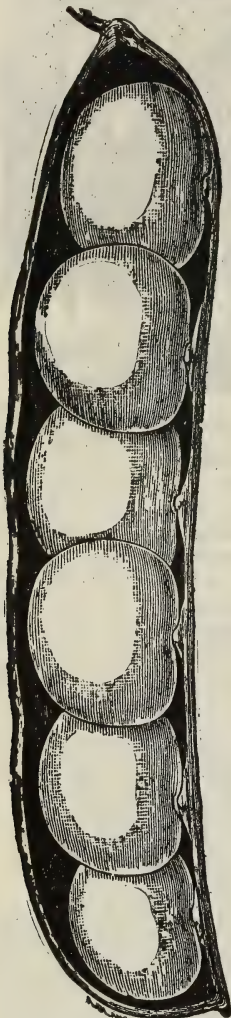
D. M. CHILDRESS.

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.

**C**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.



Extra Large Lima.

	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	25	\$1 60
<b>DREER'S IMPROVED LIMA.</b> A productive variety, with short, straight, broad pods. Beans smaller but thicker than the Large Lima. Quality excellent.	05	15	25	1 60
<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	25	1 60
<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	25	1 60
<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 on August 1, which was 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	25	1 50
<b>CUT SHORT OR CORN HILL.</b> Used among corn, the best for this section.	05	10	20	1 25

**HORTICULTURAL.** (Wren's Egg or Speckled Cranberry). Productive and tender, is an excellent corn bean.

5c. pkt.; 15c. pt.; 25c. qt.; \$1.50 pk.

**KING HORTICULTURAL.** One of the best Pole Beans, very early and productive. Long, beautifully colored pods hang in rich clusters. As an early shell bean it is unequalled for tenderness and delicious flavor.

5c. pkt.; 15c. pt.; 25c. qt.; \$1.50 pk.

**LAZY WIFE.** 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.; 25c. qt.; \$1.50 pk.

**WHITE CREASEBACK.** 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.; 10c. pt.; 20c. qt.; \$1.25 pk.

**SCARLET RUNNER.** A beautiful ornamental climber. Bright scarlet flowers.

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

**GOLDEN ANDALUSIA.** Beans pure white; round; makes an excellent dry bean for winter use.

5c. pkt.; 15c. pt.; 30c. qt.; \$1 75 pk.

**GOLDEN CARMINE-PODDED.** A snap-short bean. The prevailing shade a light carmine-red, exceedingly attractive, but throughout the edible stage it is a creamy yellow. They are entirely stringless and cook quickly. The green beans, when shelled, are also of excellent flavor, boiling dry and sweet. Vines very productive.

5c. pkt.; 15c. pt.; 30c. qt.; \$2 00 pk.

**GOLDEN CLUSTER WAX.** The pods are from six to eight inches long, stringless, very tender and of delicious flavor.

5c. pkt.; 15c. pt.; 30c. qt.; \$1 75 pk.



Lazy Wife Pole Bean.

**OHIO WAX POLE.** 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.; 30c. qt.; \$1 75 pk.

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

Mason, Ohio, November 6, 1905

Gentlemen—The fruit trees I bought from you last April were received in good order, and are doing very nicely.

Yours very truly,

F. WM. 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 sixte, cents per quart.

# BEET. (Rothe Rube, Ger.)

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

**T**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.	1/2 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	20	60
<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, tender, and of rich flavor. The roots can be used early in the season when only partially grown, being ready for use almost as quickly 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	20	60
<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 a rich blood-red, slightly zoned and of the finest quality, always sweet and tender, never stringy	05	10	20	60
<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	20	60
<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	50
<b>EDMAND'S EARLY.</b> Uniform small top, bronzy red. Exceedingly tender and sweet; skin, blood-red; flesh, dark-red	05	10	20	50
<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>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	20	60

## BROCCOLI. (Spargle Kohl, Ger.)

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

<b>EARLY LARGE WHITE</b>	05	25	1.00	..
<b>EARLY PURPLE CAPE</b>	05	25	1.00	..

## BRUSSELS SPROUTS. (Sprossen Kohl, Ger.)

One of the most delicious vegetables, 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.

<b>DWARF IMPROVED</b>	05	25	75	..
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The J. M. McCullough's Sons Co., Cincinnati, O.:

Gentlemen—I am pleased to say that I have used your garden seed for the past three years, and have always found them fresh and true to name, and I do not think of using any other seeds.

Hiawatha, Kan., September 13, 1935.

Yours truly,

W. J. ILIFF.

# 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 2 ft. wide and 18 inches apart in rows, when danger from killing frost is past. This crop matures in June. For second early, the early kinds 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, early in the morning while the plants are wet with dew.



McCullough's Early Louisville Drumhead Cabbage.

**MCCULLOUGH'S EARLY LOUISVILLE DRUMHEAD.** 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

Pkt. Oz. 1/2 lb. Lb

<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	20	50	1 75
<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	15	45	1 40
<b>CHARLESTON WAKEFIELD.</b> 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>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

Madisonville, O., September, 19, 1905.

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, MILLER BROS. Market Gardeners.

# CABBAGE—Continued.



Charleston Wakefield.

**McCULLOUGH'S PREMIUM FLAT DUTCH.** A variety pkt. oz.  $\frac{1}{2}$  lb. lb.  
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 is on the market. . . . . 05 15 45 \$1 40

**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.** 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 20 60 2 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 45 1 40

**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. . . . . 05 30 1 00

## 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 in cultivation. Heads solid and with few outer leaves . . . . . 05 25 80

**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

## 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. $\frac{1}{2}$ lb. lb.
<b>LARGE SEEDED</b> . . . . .	05 10 20 50
<b>SMALL SEEDED</b> . . . . .	05 10 20 50



Corn Salad.

Cincinnati, O., September 19, 1905

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

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

Very truly yours,

E. Columbia St.

JACOB ROETELE, Market Gardener.

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

Barton, Ark., September 11, 1905

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 my neighbors.

Very respectfully,

MRS. M. HAUSELMANN.

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 10 cents per pound and 16 cents per quart.

# CARROT. (Mohre. Ger.)

One ounce will sow 100 feet of drill. Three pounds for one acre.

**L**IGHT, 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.	½ 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> This is 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	05	10	25	75
✓ <b>GUERANDE OR OXHEART.</b> A thick Carrot, five inches long and very 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.

✓ <b>IMPROVED GIANT SHORT WHITE.</b> This is 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

## CHIVES.

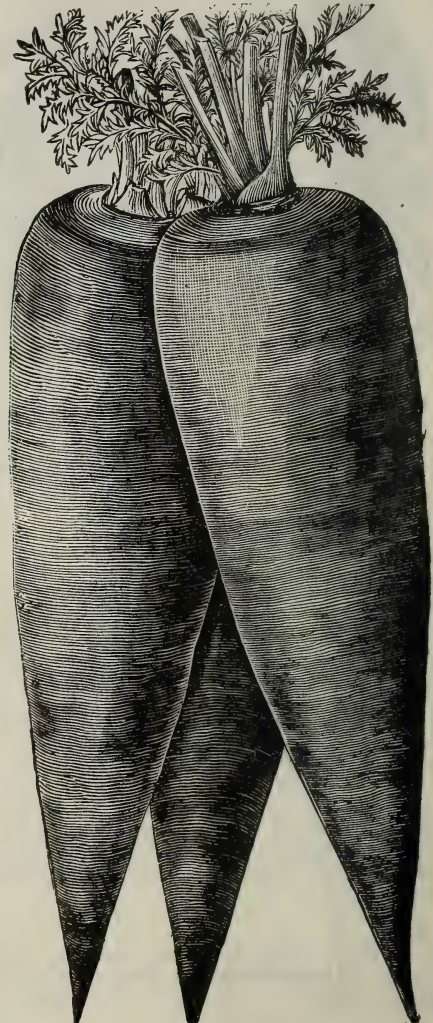
Chives are of the onion type. Are grown early in the spring, for giving a mild flavor to various dishes. When planted in small clumps they will grow rapidly, and increase so as to render division necessary. If not allowed to flower will produce longer. 10c. pkt.; 3 pkts, 25c. Plants per clump, 10c each, \$1.00 per doz. By mail, add 5c per clump.

## CHICORY.

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



Chantenay.



Intermediate.

Georgetown, Ky., November 13, 1905.  
 The J. M. McCullough's Sons Co., Cincinnati, O.:  
 Gentlemen—I received my trees in good order, and am pleased with same. Thanking you for your promptness in filling my order, I am  
 Yours respectfully, H. J. HONEKAMP.  
 R. F. D. No. 2.

Madison, Boone Co., W. Va., December 7, 1905.  
 The J. M. McCullough's Sons Co., Cincinnati, O.:  
 Gentlemen—I ordered roses from your firm last Spring for the first time. They were shipped promptly and were satisfactory in every particular. It is now my intention to order from you next Spring.  
 Yours truly MRS. F. C. LEFTWICH.

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.

# CAULIFLOWER. (Blumenkohl, Ger.)

## OUR SPECIALTY.

One Ounce of Seed for 1,000 Plants.

**CULTURE**—For early use, sow in hotbeds 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, 2½ feet apart each way. When practicable, seed may be sown in rich soil from the middle of September to middle of October, and transplant 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.



McCullough's Earliest Dwarf Erfurt Cauliflower.

	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 strains 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 00	\$3 75
<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

# COLLARDS (Blatter 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 succeeds 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.

# 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 ¼lb.  
**ERFURT WATER CRESS.** A desirable and appetizing salad, thriving best in shallow water, on the edges of streams. . . . 5c pkt., 35c oz.

# 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 50 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

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

Hartwell, Ohio.

Dear Sirs—Have grown your Earliest Dwarf Erfurt Cauliflower for several years for the Cincinnati market. Have never failed to bring in as fine heads as can be grown.

JOHN FRANK. Market Gardener.

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

Liberty, Ind., November 15, 1905.

Dear Sirs—The Garden Seeds I ordered from you came promptly, and proved to be of the highest quality and true to name.

Yours respectfully,

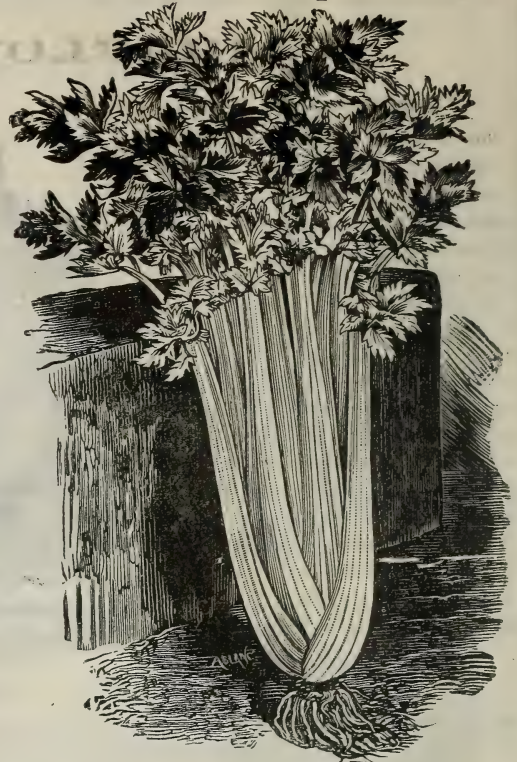
OLIVER LAFUZE.

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 10 cents per pound and 16 cents per quart.

# 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 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 plants 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,



Paris Golden Yellow.



Giant Pascal.

	Pkt. Oz. ½ 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 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 stock is solid and crisp.....	05 25 85
<b>GOLDEN SELF-BLANCHING.</b> An early, beautiful, and in every way desirable sort, requiring but little labor to blanch. The heart is a rich, golden yellow, with light, yellowish-green outer leaves.....	05 20 70
<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 15 50
<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 15 50
<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 most suitable for Southern sections of the country, as it grows freely in a hot or dry atmosphere.....	05 15 50
<b>GOLDEN-HEARTED DWARF.</b> A popular variety. Handsome color, medium size, fine flavor.....	05 15 50
<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 15 50
<b>SOUP, OR FLAVORING CELERY.</b> Used for flavoring pickles, sauces, etc.	5c oz.; 10c ¼ lb.; 20c lb.

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., October 21, 1905.  
Very truly yours,  
WILLIAM WEDIG.

The J. M. McCullough's Sons Co., Cincinnati, O.  
Gentlemen—Have grown Celery for the Cincinnati market for years, and consider your Paris Golden Yellow the best variety I have ever grown.

Hartwell, O.  
Very truly yours,  
JOHN TIEMANN.

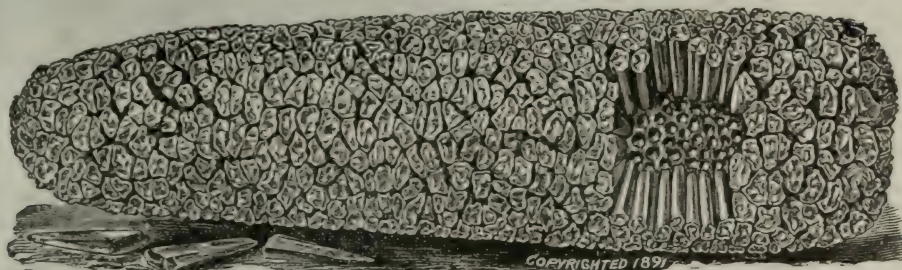
All Seeds in Packets, Ounces and Quarter-Pounds only, are sent free by Mail, at prices quoted: Half-Pounds, Pounds, Pints, Quarts, and larger quantities, if to be sent by mail, postage must be added to prices quoted at the rate of 10 cents per pound and 16 cents per quart.



# CORN. SWEET OR SUGAR.

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

**T**HE Sweet or Sugar varieties being liable to rot in a 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.

	I kt.	Pt.	Qt.	Pk.
ADAMS' EXTRA EARLY. The hardest and earliest variety for table use, but not a Sugar Corn; can be planted earlier than any other corn	05	10	15	\$0 75
ADAMS' EARLY. 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	70
PREMO. 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	10	20	1 00
EARLY SHEFFIELD. Very early variety. The stalks are strong and vigorous, bearing one or two fine ears to a stalk. The ears are large and are 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	10	20	1 00
KENDAL'S EARLY GIANT. Very early, fit for use in sixty days from planting. Ears large, 8 to 10 inches in length, twelve rows to a cob. Kernels pure white, sweet and tender. A most productive variety, and will prove a valuable acquisition	05	10	15	80
MAMMOTH WHITE CORY. 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	80
EARLY MINNESOTA. Very early and desirable, alike in the market or family garden. Ears of fair size and good quality	05	10	15	75
CROSBY'S EARLY. A great favorite; productive and of excellent quality	05	10	15	75
MOORE'S EARLY CONCORD. Ears large and well-filled, early and unsurpassed for richness and delicacy of flavor	05	10	15	75
SHAKER'S EARLY. A large sized early kind. Remarkable for fine flavor, sweetness and is a desirable gardener's and canning variety	05	10	15	75
EARLY MAMMOTH. A second early variety. The ears are of large size tapering well toward the point; kernels large and very sweet	05	10	15	75
OHIO MONARCH. Ears of large size, deep kernels, tender and sugary; very productive	05	10	15	80
BLACK MEXICAN. A black-grained variety, sweet and tender, must be picked young to avoid a black appearance when cooked	05	10	20	100
COUNTRY GENTLEMAN. 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 great abundance, averaging three good ears to the stalk. The cob is very small, giving great depth to the kernels, but the great merit is its delicious quality	05	10	15	80
PERRY'S HYBRID. An early twelve-rowed variety, growing only four or five feet high. Kernels white, large, sweet and very tender	05	10	15	80
EGYPTIAN. A fine large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality	05	10	15	80
MAMMOTH SUGAR. A late variety producing ears of very large size and fine flavor. It is unusually productive	05	10	15	80
EARLY EVERGREEN. A selection from Stowell's Evergreen, possessing all its good qualities, but coming in ten days ahead of that famous variety	05	10	15	80
STOWELL'S EVERGREEN. 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	15	75
WHITE EVERGREEN. 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	10	15	75
ZIG-ZAG EVERGREEN. 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	15	75

## SEED POP CORN. Plant two quarts to the Acre.

	Pt.	Qt.
WHITE PEARL. Our common market variety	10	20
WHITE RICE. A handsome variety, kernels long and pointed, very prolific	10	20
SILVER LACE OR EIGHT ROWED. A strong growing variety, color silvery white	10	20
QUEEN'S GOLDEN. 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.

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

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,

San Luis Obispo, Cal., October 3, 1905.

GEORGE IRVIN.

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 85



## 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 5c pkt.; 35c oz.; \$1.25 1/2 lb

**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.; 30c oz.; \$1.00 1/2 lb.

**LONG PURPLE.** Very early. Good for general culture. 5c pkt.; 20c oz.; 75c 1/2 lb.



Black Beauty.

## 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.

<b>BROAD-LEAVED BATAVIAN.</b> Leaves broad, light green, nearly plain, used in stew and soups. ....	Pkt.	oz.	1/2b.
<b>GREEN CURLED.</b> Very hardy, crisp and tender. ....	05	15	50
<b>MOSS CURLED.</b> It is excellent for winter use. ....	05	15	50
<b>WHITE CURLED.</b> 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

## 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. By express (not paid). 15c dozen, 75c per hundred. If by mail add 10c per dozen extra.

## 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.

<b>EARLY WHITE VIENNA.</b> The flesh is white and tender. ....	Pkt.	Oz.	1/2b.
<b>EARLY PURPLE VIENNA.</b> Differs from the above in color. ....	05	20	50
	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 CULED.** 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.

5c pkt.; 10c oz. 25c 1/2b. 65c lb.

**DWARF CURLED GERMAN OR SIBERIAN.** Leaves yellowish-green finely curled. Sow in September for winter and early spring use.

5c pkt.; 10c oz 20c 1/2b. 40c 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 1/2b.; 65c lb.

## LEEK. (Lauch Ger.)

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.

**Norwood Kale.**

<b>LARGE AMERICAN FLAG.</b> This is by far the best variety. It grows to a good size and is wonderfully uniform. This is preferred by our most critical market gardeners. ....	Pkt.	Oz.	1/2b.	Lb.
<b>LONDON FLAG.</b> An old and popular sort; one of the hardiest and best for winter use. ....	05	20	50	\$1 40
<b>LARGE MUSSELBURGH.</b> Of enormous size; leaves large and broad, very mild, pleasant flavor. ....	05	15	40	1 15
	05	20	60	1 40



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# LETTUCE. (Lattich oder Garden Salat, 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, sowing 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 Nonpareil Lettuce

**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 ¼lb.; \$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 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.

	Pkt.	Oz.	¼lb.	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 hardness. The inner leaves are beautifully blanched, and very sweet and tender.	05	15	40	1 00
<b>DEFIANCE—SUMMER.</b> A large growing cabbage Lettuce, unexcelled as a long-standing sort. The leaves are of light green color, and it remains for a long season tender and crisp.	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 blanched, 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>SALAMANDER.</b> One of the best for summer use, forming good-sized, compact heads. Color, light green outside, and white inside.	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	35	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	35	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	35	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 Bon-Ton 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, excellent for forcing.	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>TILTON'S WHITE STAR.</b> A favorite for forcing or outdoor planting, on account of having large heads, bright color, crispness and long keeping qualities. A valuable shipping sort, as it remains a long time in condition for use.	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.

Keitts, W. Va.

Dear Sirs—Your seeds are all you claim them to be and more. The Ohio Pole Bean was the grandest bean we ever grew. The vines were loaded with long yellow pods from bottom to top, fully seven inches long.

Will be glad to have your prices on seeds at any time and will favor you with our orders.

Yours truly,

W. L. CHAPMAN.

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.

# MELON—Musk. (Zucker Melone, Ger.)

**One Ounce will Plant about 60 Hills.**  
**Two to Three Pounds in Hills per Acre.**

**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.



**Extra Early Hackensack.**

	Pkt.	Oz.	1/2 lb.	Lb.
<b>ACME.</b> Medium size, oval, slightly pointed at end, ribbed, covered when ripe with coarse netting. Flesh thick, green, very fine flavored and sweet .....	05	10	25	80
<b>BANQUET.</b> Round, densely netted; flesh, salmon in color and very sweet .....	05	10	25	80
<b>EARLY NETTED GEM.</b> Very early, small, coarsely netted green flesh, fine flavored. ....	05	10	25	75
<b>EMERALD GEM.</b> Extra early small, skin dark green; flesh, orange, very sweet. ....	05	10	30	100
<b>EXTRA EARLY HACKENSACK.</b> 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	10	25	80
<b>HACKENSACK.</b> One of the best large size, attractive appearance; productive, and excellent flavor. ....	05	10	25	80
<b>IMPROVED GREEN NUTMEG.</b> A large melon, nearly round, deeply ribbed; flesh, thick, light green, delicious flavor. ....	05	10	25	80

<b>JENNY LIND.</b> The earliest variety; netted, of small, round size, excellent flavor. ....	05	10	25	80
<b>KINSMAN QUEEN.</b> Extremely early, of large size, and very productive; nearly round in shape, color, yellow-green outside, slightly ribbed and netted; flesh, deep salmon, rich, juicy and delicious. ....	05	10	25	85
<b>OSAGE OR IMPROVED MILLER'S CREAM.</b> Medium, dark green. Flesh, salmon; very thick and splendid flavor. ....	05	10	25	80

<b>PAUL ROSE.</b> 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 .....	05	10	25	80
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**Kinsman Queen.**

<b>ROCKY FORD.</b> 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. ....	05	10	25	75
<b>TIP TOP.</b> 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. ....	05	0	25	80

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

Gentlemen—I believe I have been your steady customer for the last ten years. As always so also this year. I must say that the seed sent me last year has served me very well. First of all, the Prize Taker Onion sets have yielded quite a crop of hard-hearted giants. The Peas, both Admiral Dewey and American Wonder, have been very prolific, and at the present writing there is a crop of the Maud S. variety in bloom, to the astonishment of the natives, who have never seen the like for the 21st of September. Speaking of Flowers, your double Portulacas have been beautiful for these four months, while stocks Princess Alice, Salvia Splendens and your Double Dahlias are eye openers to our conservative fellow-citizens. Arcotis was tried for the first time this year, and it has got quite a small piece of ground allotted to it, but it has grown to elephantine proportions. Last but not least, I have been successful in the ticklish business of raising Egg Plants from seed. We are now eating unladen eggs every day, and praise

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

Cordially yours

Henderson, Minn., September 21, 1905.

©. R. BIRNBACH.

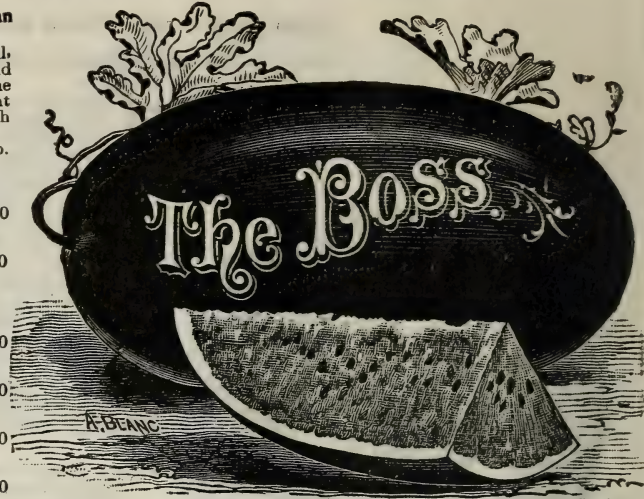
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# MELON—Water. (Wasser Melone, Ger.)

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

**T**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.	1lb.	Lb.
<b>BLACK DIAMOND.</b> Skin dark green, almost black. Flesh bright red. Shape rather oval; large, productive and fine quality. ....	05	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. ....	05	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	20 60



	Pkt.	Oz.	1lb.	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	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 stripes; flesh light crimson 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	70
<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	20	60
<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 in a watermelon. 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	20	60
<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	50
<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	50
<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 pounds; 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.
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## 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.	1lb.	Lb.
<b>WHITE ENGLISH.</b> Best for salads. ....	05	10	15	30
<b>CHINESE.</b> Large-leaved, leaves twice the size of the white; flavor sweet and pungent. ....	05	10	25	70

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 ten cents per pound for postage.



Mushrooms.

**T**O CULTIVATE mushrooms successfully does not always require extensive experience. Some care is necessary, in the selection of materials, and in forming the beds. Mushrooms may be grown in a dark room, cellar, stable or where an even temperature of 50° to 60° can be kept. For material for the bed use fresh horse manure, free from straw or chips, and good loamy soil. Some growers use the manure unmixed with loam, after first having well fermented it by alternately piling up 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 loam, the rest manure. Mix 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 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 hole with loam to keep insects from the roots. In six or eight weeks from spawning the beds, mushrooms should appear.

**OUR CELEBRATED ENGLISH MILLTRACK MUSHROOM SPAWN** 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.

15c per lb.; 20c per brick; \$1.00 for 10 lbs.; \$9.00 per 100 lbs. **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. or over

**NASTURTIUMS.** (See Flower Seeds.)

**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.



Okra or Gumbo.

	Pkt.	oz.	lb.	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	20	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

**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 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 4 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, yellow or red) 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.	lb.	Lb.
<b>YELLOW GLOBE DANVERS.</b> This is the standard variety every where; 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	20	75	\$2 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 a good keeper.	05	20	60	2 00
<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	50	1 50
<b>SOUTHPORT YELLOW GLOBE.</b> A very large, handsome, globular-shaped, yellow variety, very productive, of a mild flavor, excellent keeper	05	20	75	2 50
<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	60	2 00

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.

# Onion Seed (Continued.)

	Pkt.	Oz.	¼lb.	Lb.
✓ AUSTRALIAN BROWN. 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
✓ LARGE RED WETHERSFIELD. 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. Our seed is extra selected.	05	15	50	1 50
✓ EARLY RED GLOBE. A handsome variety, and deserving of general cultivation. It matures early, grows to a good medium size, and keeps well; skin deep red; flesh fine grained; flavor mild.	05	15	50	1 50
✓ LARGE RED GLOBE. 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
✓ WHITE PORTUGAL, OR SILVERSKIN. A large, flat onion, of mild flavor; fine for early winter use, and much esteemed for pickling.	05	20	60	2 00
✓ LARGE WHITE GLOBE. This is one of the finest onions in cultivation, 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 50
✓ MAMMOTH SILVER KING. 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	50	1 75
✓ WHITE BARLETTA. 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
✓ THE QUEEN. 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 Onions Sets have been kept in good condition, and are re-cleaned.  
White Sets, Yellow Sets, Potato Sets and Large Potato Onions.  
30 cents per quart by mail postpaid. Price per peck and bushel on application.



## 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 a 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.



## PARSNIP. (Pastinake Ger.)

One Ounce for 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. We believe this is the finest stock of Parsnip that can be procured. The roots are of uniform size and smooth 5c pkt., 10c oz., 20c ¼lb., 45c lb.  
STUDENT. A good half-long variety, smooth, sweet and of delicate flavor. 5c pkt., 10c oz., 20c ¼lb., 45c lb.

## 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 in pots ready by the middle of May.

CELESTIAL. Fruit conical in shape, one to two inches long; green from the blossom, turning alternately to lemon, golden and scarlet.	Pkt.	Oz.	¼lb.
	05	25	75
CHINESE GIANT. Flesh is thick, mild and very sweet. Largest Pepper grown.	05	25	75
GOLDEN DAWN. Of same shape and size of Large Bell, but of more delicate flavor; color yellow.	05	25	75
LARGE BELL OR BULL NOSE. Large and early, rind very thick; color, glossy red; flavor mild and pleasant.	05	25	75
LONG RED CAYENNE. From three to four inches long, of bright-red color, very productive and hot.	05	25	75
NEAPOLITAN. The earliest large pepper; and most productive. The skin and flesh bright red, thick meated, sweet and mild.	05	30	100
RUBY KING. Large sized, ruby red pods, flesh exceedingly thick, sweet and mild.	05	25	75
SPANISH MONSTROUS. Early and productive; flesh very sweet and mild.	05	25	75
SWEET MOUNTAIN. Similar in shape to the Bell, but grows larger; rind thick; tender and fleshy.	05	25	75



Ruby King.



# 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, or for the late sorts seven to eight 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.; 25c qt.; \$1.15 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.

5c pkt.; 15c pt.; 25c qt.; \$1.25 pk.

**\*GRADUS.** The finest extra-early Pea yet introduced: 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.; 15c pt.; 30c qt.; \$2.00 pk.

Pkt. Pt. Qt. Pk.

<b>*THOMAS LAXTON.</b> 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 hardier in constitution, three feet.	05	15	25	\$1 75
<b>*AMERICAN WONDER.</b> This variety stands unrivaled 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.	05	15	25	1 50
<b>*EXTRA EARLY PREMIUM GEM.</b> 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.	05	15	25	1 25
<b>*NOTT'S EXCELSIOR.</b> A dwarf wrinkled Pea of the highest excellence. The pods average three inches in height, and are well filled with peas of large size and unusually sweet flavor; one and one-fourth feet.	05	15	25	1 50
<b>PROLIFIC EARLY MARKET.</b> 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.	05	15	25	1 25
<b>ALASKA.</b> 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	10	20	1 00
<b>PHILADELPHIA EXTRA EARLY.</b> An excellent early variety. Height two and one-half feet.	05	10	20	1 10

## SECOND EARLY VARIETIES

<b>*McLEAN'S ADVANCER.</b> Prolific, long pods, tender, and of delicious flavor; two feet.	05	15	25	1 25
<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	15	25	1 25

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

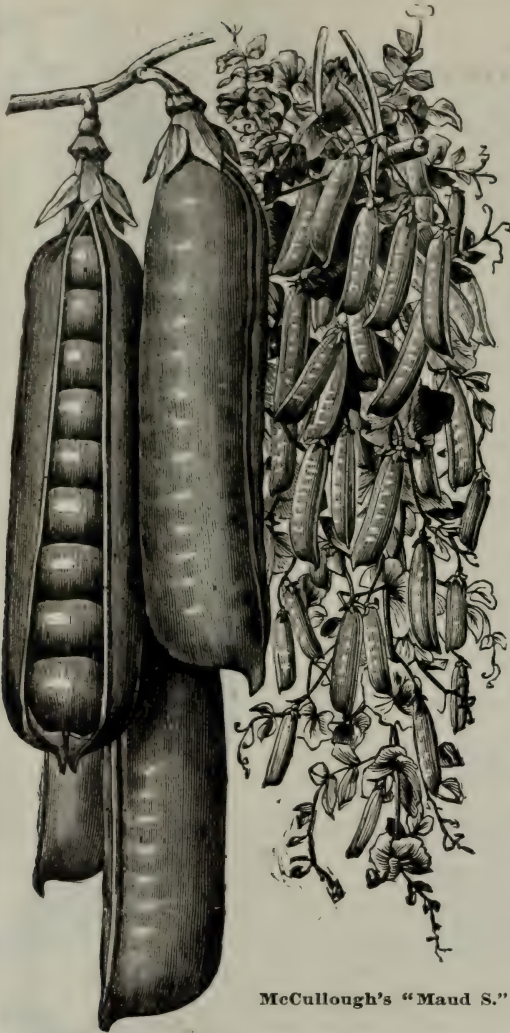
Dayton, Tenn., September 16, 1905.

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 exceed 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.



McCullough's "Maud S."

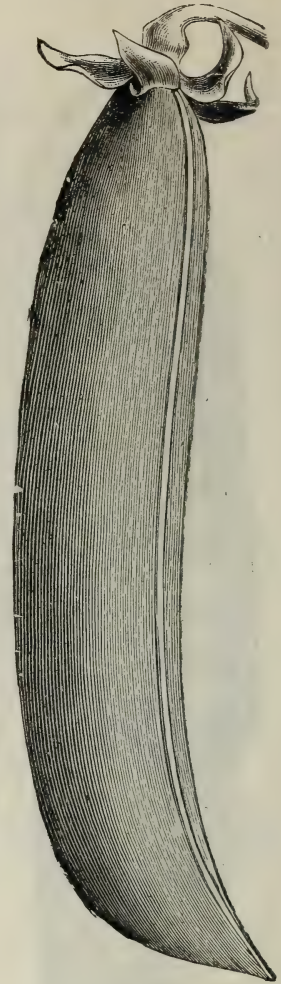
**PEAS—Continued.**

Those Marked Thus \* Are Wrinkled Varieties.

**LATE OR MAIN CROP VARIETIES.**

	Pkt.	Pt.	Qt.	Pk.
*DUKE OF ALBANY (American Champion.) A strong vigorous grower; pods extra large, dark green, closely filled with peas of excellent flavor, Three and one-half feet .....	05	15	25	\$1 50
*EVERBEARING. 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	15	25	1 25
*IMPROVED CHAMPION OF ENGLAND. One of the best known of the older varieties; a tall-growing, green, wrinkled marrow; quality unsurpassed; pods medium; peas large. Five feet .....	05	10	20	1 20
LONG ISLAND MAMMOTH. 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	25	1 50
PRIDE OF THE MARKET. 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	25	1 50
*TELEPHONE. 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	15	25	1 50
TELEGRAPH. 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	25	1 50
*STRATAGEM. A dwarf, wrinkled, blue marrow, heavy cropper, and produces large, remarkably well-filled pods of excellent flavor. Two feet .....	05	15	25	1 50
BLACK-EYED MARROWFAT. This and the White Marrowfat are extensively grown as field peas, as they are hardy, productive, and bear well-filled pods. Four feet .....	05	10	15	85
LARGE WHITE MARROWFAT. A favorite variety; large well-filled pods. Five feet .....	05	10	15	85
DWARF SUGAR. Edible pods. Can be used in a green state like string beans. Height, 5 feet .....	05	25	40	..
MELTING SUGAR. 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	..
CANADA FIELD. For the Northern States 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.

**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.

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

**CALHOUN.** The outside is a creamy 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 ¼ lb.; 60c lb.

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

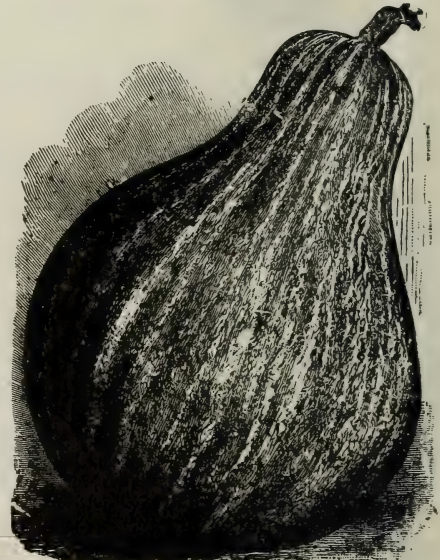
**JAPANESE PIE PUMPKIN.** Is very productive, ripens early, of medium size, good keeper, and weigh 15 to 20 pounds each. The flesh is a rich salmon color, unusually fine grained. 5c pkt.; 10c oz.; 25c ¼ lb.; 75c lb.

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

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

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

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



Tennessee Sweet Potato Pumpkin.

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.

# RADISH, [Rettig, Ger.]

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

**CULTURE**—Sow for very early use in hot beds 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. Without doubt it is the finest Long Red Radish for forcing and outsells 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.

**EARLIEST WHITE GLOBE FORCING.** Oval shape; small root, small top; flesh white, tender and crisp.

**NON PLUS ULTRA.** The smallest topped and earliest forcing radish in cultivation. Roots small, round; deep rich scarlet; very crisp, tender white flesh.

**ROSY GEM.** One of the earliest; perfectly globular; color, rich deep scarlet at the top, blending into pure white at the bottom.

**EARLY SCARLET GLOBE.** One of the earliest and best sorts for forcing; flavor mild; crisp and juicy; also good for garden culture.

**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.



<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>NORWOOD'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
<b>GIANT WHITE STUTTGART.</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>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>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

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.

The J. M. McCullough's Sons Co., Cincinnati, O.; Vestal, Va., September 14, 1905.  
 Dear Sirs—I can recommend your seed highly. I have ordered for ten years from you, and they have given entire satisfaction all the time. Yours truly, MRS. V. MILLER.

# 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 Spinach.

- ✓ **NORWOOD SAVOY.** One of the best for either the market or kitchen garden. A quick-growing, round-seeded variety, producing thick, dark green, slightly crumpled leaves; in large demand for either spring or fall sowing.  
5c pkt.; 10c oz.; 15c ¼lb.; 50c lb.
- ✓ **BLOOMSDALE SAVOY.** The hardest large Savoy leaved; curled and crimped with thick, fleshy leaves, good for family and market purposes.  
5c pkt.; 10c oz.; 15c ¼lb.; 30c lb.
- ✓ **LONG STANDING.** A large, crimped, thick Savoy-leaved variety; will stand two weeks longer than other sorts before shooting to seed; .....
- ✓ **VICTORIA.** A variety, with heavy, broad, dark-green leaves. Two or three weeks later than other sorts in going to seed. Valuable for spring sowing .....
- ✓ **PRICKLY SEEDED OR FALL.** The hardest variety, having, smaller leaves; is not so productive as the above sort. .....
- ✓ **NEW ZEALAND.** Endures heat and drought; excellent for summer use; produces a large quantity of leaves, and can be cut from continuously. Sow thickly in drills fifteen inches apart. ....

Pkt.	Oz.	¼lb.	Lb.
05	10	15	30
05	10	15	30
05	10	15	30
05	10	30	1.00

# RHUBARB. (Rhabarber, Ger.)

One Ounce will Produce 1,000 Plants.

**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.

- LINNAEUS.** Best sort for general purposes; early large and tender. .... Pkt. Oz. ¼lb. Lb.
- VICTORIA.** Very large, later than Linnaeus. .... 05 15 50

For Rhubarb Roots, see page 33.

# 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.

- LONG WHITE FRENCH.** Roots of medium size, white and smooth. .... Pkt. Oz. ¼lb. Lb.
- MAMMOTH SANDWICH ISLAND.** This variety will average nearly double the size of the White French, and is of excellent quality. The best variety for market gardener's use. .... 05 15 40 1.25

# SQUASH. (Kurbiss, Ger.)

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.



Mammoth White Bush Squash.

## SQUASH—Continued.

### FALL OR WINTER VARIETIES.



Mammoth Chill Squash.

- 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 ½lb.; 75c lb.
- MARBLEHEAD.** Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor, as well as its keeping qualities. 5c pkt.; 10c oz.; 25c ½lb.; 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 ½lb.; \$1.25 lb.

- BOSTON MARROW.** A well-known and highly popular winter variety; quality unexcelled. 5c pkt.; 10c oz.; 25c ½lb.; 75c lb.
- DELICIOUS.** This fall and winter Squash 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 ½lb.; \$1.50 lb.
- ESSEX HYBRID.** Very prolific, fine-grained, orange-red flesh, very sweet and dry. 5c pkt.; 10c oz.; 25c ½lb.; 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 ½lb.; 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 ½lb.; 75c lb.

## 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.

## 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, in this latitude, 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.



Earliana Sparks'.

- 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 ½lb.
- EARLIANA SPARKS'.** 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 ½lb.
- 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 ½lb.
- BUCKEYE STATE.** The tomatoes are borne in immense clusters of four to eight large fruits. In solidity and meatiness 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 ½lb.

The J. M. McCullough's Sons Co., City: Cincinnati, O., October 19, 1905.  
Gentlemen—Your Endive Seed is all right, and am pleased with what I got from you. Will always buy my seeds from you as I always get treated right. Very truly yours,  
Station F. Cincinnati, O. E. STORY, 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 10 cents per pound and sixteen cents per quart.

# TOMATO—Continued.

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

**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. . . . . 05 25 60

**DWARF CHAMPION.** Of dwarf, stiff, distinct, upright growth, scarcely needing support; early and prolific; smooth, medium-sized fruits of pinkish purple color. . . . . 05 30 80

**DWARF STONE.** The largest fruited of the Dwarf varieties. 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. . . . . 05 30 80

**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

**HONOR BRIGHT.** Fruits solid, nearly round, of medium size; ripening from the center out, while the surface color changes from white to yellow, pink, then brilliant scarlet; very prolific; good keeper and shipper. . . . . 05 20 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

**MAGNUS.** Large, deep, solid and heavy fruits of purplish red color; borne in clusters, very productive; plant vigorous. . . . . 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

**ROYAL RED.** The vines are strong and vigorous, and bear a profusion of large, handsome, bright red fruits of excellent flavor. . . . . 05 25 60

**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, solidly 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 90

**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 75

**PEAR-SHAPED.** A small preserving tomato, of pear-shape, and bright red color. . . . . 05 25 75

**RED CHERRY.** Small round fruit, resembling cherries; used for preserves. . . . . 05 25 75

**YELLOW PLUM.** Bright lemon-colored; oval; small sized; used for preserves. . . . . 05 25 75



Globe Livingston's.



Norwood.



Stone.

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 10 cents per pound and sixteen cents per quart.

# TURNIP. (Ruben, Ger.)

One Ounce will Sow 150 Feet of Drill. 1 to 1½ lbs. to the Acre Drilled or Broadcast.

THE 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. 05. Oz. 10. ¼lb. 25. Lb. 50. Small strap leaves; sweet and excellent quality.
- ✓ **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. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **EARLY WHITE FLAT DUTCH.** An early, white-fleshed variety, of quick growth, mild flavor, and excellent quality. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **SCARLET KASHMYR.** Small, flat, extra-early, pure white flesh of the finest quality. Pkt. 05. Oz. 10. ¼lb. 25. Lb. 60.
- ✓ **SNOWBALL.** An early, medium-sized, smooth, round Turnip; pure white skin and flesh; quality crisp, tender and sweet. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **WHITE EGG.** An egg-shaped variety, with smooth, thin white skin and snowy white flesh; firm, mild and sweet. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **LARGE WHITE GLOBE.** Flesh white, firm and crisp; a very desirable early variety. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 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 market sorts. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **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. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **AMBER GLOBE.** A beautiful formed variety, quite productive, solid flesh and attractive color; it keeps well and is desirable for either table use or for stock feeding. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 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. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **PURPLE TOP YELLOW ABERDEEN.** A large, globe-shaped Turnip, with yellow flesh of fine quality; a good keeper; popular for table or stock. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 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. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.

## RUTA BAGA.

- ✓ **BUDLONG'S IMPROVED.** White, very sweet, much milder flavor than any other sort; globe-shaped. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **AMERICAN PURPLE TOP.** Very hardy and productive; flesh yellow, solid, sweet; good for stock or table use. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 40.
- ✓ **SKIRVING'S PURPLE TOP.** Large size and strong growth, a heavy cropper and one of the best for field culture. Pkt. 05. Oz. 10. ¼lb. 20. Lb. 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:

	Per	Per	Per		Per	Per	Per
<b>ASPARAGUS ROOTS, Two-year-old:</b>	100	500	1,000	<b>GINSENG PLANTS,</b>	Doz.	100	1,000
Bar's Mammoth	\$1.00	\$4.25	\$7.00	One-year-old	\$1.00	\$7.50	.....
Colossal	80	3.75	6.80	Two-year-old	1.50	11.25	.....
Columbian Mammoth White	1.00	4.25	7.00	<b>HORSE-RADISH SETS</b>	.....	15	75
Palmetto	1.00	4.25	7.00	<b>PEPPER PLANTS,</b>			
<b>CABBAGE PLANTS,</b>				Large Bell, or Bull Nose	30	1.50	.....
Early Jersey Wakefield	50	.....	4.00	Ruby King	30	1.50	.....
Louisville Drumhead	50	.....	4.00	<b>SWEET POTATO PLANTS,</b>			
Premium Late Flat Dutch	40	.....	3.00	Nansemond, or Jersey Yellow	.....	30	2.50
<b>CAULIFLOWER PLANTS,</b>				Red Bermuda	.....	40	3.50
Earliest Dwarf Erfurt	Doz.	100	1,000	Southern Queen	.....	35	3.00
Early Snowball	25	\$1.50	.....	<b>TOMATO PLANTS,</b>			
<b>CELERY PLANTS,</b>				Leading Sorts	.....	20	1.50
Leading Sorts	.....	50	\$3.50	<b>RHUBARB ROOTS,</b>			
<b>EGG PLANTS</b>				Single Eye	.....	5c each;	50c per doz.
Chives—Good clumps	40	3.00	.....	Small Clumps	.....	10c each;	\$1.00 per doz.
<b>CHIVES—Good clumps</b>				Large Clumps	.....	25c each;	\$2.50 per doz.

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

## 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	15c	Fennel, Sweet, perennial 6 feet	5c	10c	Saffron, annual, 3 ft.	5c	10c
Balm, Sweet, perennial, 1 ft.	5c	30c	Horhound, perennial, 2 ft.	5c	25c	Sage, annual, 1 ft., 50c ¼ lb.	5c	15c
Basil, Sweet, annual, 1 ft.	5c	20c	Hyssop, perennial, 3 ft.	5c	25c	Summer Savory, annual.	5c	20c
Caraway, perennial, 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
Ginseng, \$1.50 per 100 seeds.								

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

Fort Payne, Ala., Sept. 15, 1905.

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, WALTER NOVELLE.

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 10 cents per pound and sixteen cents per quart.

## DIRECTIONS FOR THE CULTIVATION OF FLOWERS FROM SEED.

**ANNUALS** are plants which flower, produce seed, and die the same year they are sown.

**BIENNIALS** those which are sown one year, bear their flowers and seeds and die the next.

**PERENNIALS** those which grow and flower for several years; and included in one or the other of these classes are hundreds of floral gems. These three classes are each again divided into hardy and half hardy sections, and, as they require different modes of treatment for their successful cultivation, the few details we give under each heading may be useful to those who have had but little practice amongst them.

**HARDY ANNUALS** are such as can with safety be sown in the open ground, requiring no protection; they will grow in almost any ordinary garden soil, and, if judiciously selected and sown in succession, they are capable of yielding a profusion of flowers, equal in many respects to the "summer bedders" which often occasion so much anxiety and care. The object to be aimed at in the culture of Annuals should be a steady and fairly vigorous growth, the desideratum being flowers and plenty of them, and not an over-luxuriant growth with a scarcity of blossoms, as is nearly always the result of a too liberal application of manure.

Sow in April or May, either in their permanent place in the open ground, or in shallow boxes placed in a warm window, or in a hot-bed, the latter method being generally preferable, as plants grow hardier by being transplanted. The selection of the soil is a very important point; a light, rich, sandy loam, not too wet or too dry, makes the best seed-bed, and is often improved by the addition of a little pulverized charcoal. Smooth the surface before sowing, cover the seed with sifted earth, and keep the soil always moist.

The absolute essential of successful flower growing is not to bury the seed too deep. The very best of seed can not grow when choked with soil. Amateurs fail here oftener than at any other point, and the seeds and the seedsmen are unjustly blamed for the failure. Generally, seeds should not be covered to a depth greater than two or three times their diameter. Fine seeds, such as Portulaca, etc., ought not to be covered at all, or but slightly, pressing it down with a strip of board. Sun and light must be excluded from the newly sown seed—cover with paper held down by sticks or stones until the seed has germinated, and then admit gradually the air and light. Knowing the height and general habit of the plant, thin accordingly, always leaving sufficient space between them for each plant to fully develop itself. Any neglect in this particular is fatal to the production of fine flowers, a little extra trouble in thinning being amply repaid by the greater profusion and lengthened duration of the blossoms. Keep them free from weeds, run the hoe amongst them occasionally, and water if necessary at any time.

**Half-Hardy and Tender Annuals.** This section comprises some of the most useful and interesting plants, suitable for the summer decoration of the flower-garden

but being of a rather tender nature they require careful treatment in the first stages of their growth. For flowering in the open air the first sowing is made in heat, in March or April, and the second in the open ground, when the risk of frost has passed. For early sowing, use shallow pans or boxes, well-drained and filled with a nice light compost of loam, leaf-mould and sand; place them in a frame where they can have the advantage of a little mild bottom-heat, and there they will germinate quickly. When large enough, prick out into a little stronger compost, either in pots or boxes, or under hand-lights, and gradually, harden off for planting out in May. If only a few are required, and not very early, they should be sown thinly on a half-spent hot-bed or in the house. If sown after the middle of May they may be planted in the open ground like Hardy Annuals. In the case of very small seeds, such as Petunia, Lobelia, etc., the covering of soil should be very thin, barely hiding the seeds, and as seeds so small are liable to be carried down into the soil unless very carefully watered, it is even advisable to moisten the surface of the soil before sowing instead of afterward. Toward the end of May, when the danger from night frosts is past, the plants can be transplanted to their permanent positions in the open bed or border. Tender Annuals should be sown in the same way as the Half-Hardy ones, at any time from the month of February, according to the peculiarities of each. The plants should be potted off singly into rich compost, and kept as close to the glass as possible. Repot when necessary, and grow on in heat rapidly until the plants are well advanced. Keep them well supplied with water, and a uniform temperature must be maintained, so that they may not receive any check whilst growing. They should then be gradually hardened off, so as to be ready for placing in the conservatory as they come into flower. Many of the varieties may be planted in the flower-garden about the middle of June, where their neat and attractive appearance will add considerable interest to the summer display.

**Hardy and Half-Hardy Biennials and Perennials.** Under the heading of Biennials and Perennials are included many of our

finest flowering plants, which are often neglected because they do not bloom the first year from seed. This long waiting for bloom may in many cases be avoided by treating the seeds as recommended for Half-Hardy Annuals, and starting them sufficiently early to form large, strong plants by the time they should be planted in their permanent quarters. The hardier species and varieties of Biennials and Perennials may be sown at the same time as Annuals, if desired, always choosing showery weather and a shady situation for the operation; but if they are wanted for flowering the following spring, sow in May or June, and again at the end of August or beginning of September. The plants raised from this later sowing should stand in the seed-bed all winter, and be transplanted the following spring. Those raised in May or June should be pricked out thinly on a nice piece of ground, and encouraged to make a good growth before they are lifted and planted out in October. Many of the species improve by age, forming large clumps or bushes, and by being divided occasionally, the stock is increased and the plants invigorated. Half-hardy and Tender subjects should be treated in a general way, as if they were Annuals, with regard to their propagation and subsequent culture.

**Seeds of Green-House Plants.** These can be sown at any season of the year, but extra care should be given them, especially to such varieties as Begonias, Calceolarias, Cinerarias, Primulas etc., as the seeds are very small and delicate. Sow the seed in well drained pans, choosing for soil a fine sandy leaf-mould; press it firmly, smooth the surface and sow the seed very evenly; cover with a light sprinkling of sand or not at all, lay a pane of glass over the pan, place it in a close frame and keep shaded. Most failures are due to mistakes in watering, which should be done very carefully; the seed pans should never be allowed to dry out, as one neglect will kill the seeds just starting, while on the other hand a slight excess of water will cause the seeds to rot. After the plants are up, remove the glass and prick into other pans with the same soil; great care should be taken not to pull the plants or tear the roots in transplanting; lift with a trowel or stick and shift with good roots. Keep them shaded after transplanting until the young plants are well established in the new soil. As soon as the plants touch each other transplant again into small pots with similar soil, using the same precaution of shading at first, if troubled with green flies, fumigate, occasionally with tobacco.



# 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 or four 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.**



**Ageratum—Blue Perfection.**

**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

**ACHILLEA.** A free-blooming, hardy perennial plant, of branching habit. Useful for cut-flowers or for planting in cemeteries. Easily grown from seed, flowering the first season if sown early.  
2 The Pearl. Pure white double flowers; 1 1/2 feet. 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.  
3 Album Fl. Pl. Double White.....5c pkt.  
4 Roseum Fl. Pl. Double bright rose.....5c pkt.  
5 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.  
6 Cirrhosa. Pale pink, 15 feet .....5c pkt.....

7 **AGATHEA Caelestis.** (Blue Marguerite.) A free-blooming plant with blue daisy-like flowers. Fine for winter flowering inside. Tender perennial. 1 1/2-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.  
8 Mixed Varieties ..... 5c pkt.

**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, or earlier, 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 annuals.  
9 Blue Perfection. Dwarf compact growth, large dark-blue flowers; valuable for borders and bedding.....5c pkt.  
10 Grandiflorum Album. Large pure white fragrant; a great improvement on the old white sorts.....5c pkt.  
11 Lasseauxii. Fine rose, long bloomer. 1 1/2 ft.....5c pkt.  
12 Little Dorrit. Azure blue, very floriferous. 1 ft.....5c pkt.

**ALLEGHENY VINE.—(See Adlumia.)**

Tavern, Tenn., September 9, 1905,

The J. M. McCullough's Sons Co., Cincinnati, O.:  
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. Such 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, ¾ ft. 5c pkt.
- AMARANTHUS.** Brilliant foliaged 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. Per pkt.
- 16 Brilliant. Foliage bright red, the ends of the branches being a combination of carmine, rose, red and yellow, 4 to 6 feet 5c
  - 17 Caudatus (Love Lies Bleeding). Long drooping scarlet flowers, 3 feet. .... 5c
  - 18 Melancholicus Ruber. Dwarf compact habit, blood-red foliage, 2 feet ..... 5c
  - 19 Salicifolius. (Fountain Plant.) Long undulated foliage, beautifully variegated, 3 feet ..... 5c
  - 20 Tricolor Splendens (Joseph's Coat). Rich glowing, scarlet crimson, effectively marked with yellow and bronze green, 2 feet ..... 5c

Collection, containing one packet each of the five varieties ..... 20c

**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.

- 21 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.

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

**ANEMONE.** A very pleasing hardy perennial, easily grown from seed, producing large flowers; fine for bouquets. The seeds should be rubbed in sand to separate them from the cotton-like down with which they are covered, before sowing.

- 23 Coronaria. Finest Mixed. The well-known spring-flowering garden anemone, 1 foot ..... 5c pkt.

**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. Per pkt.

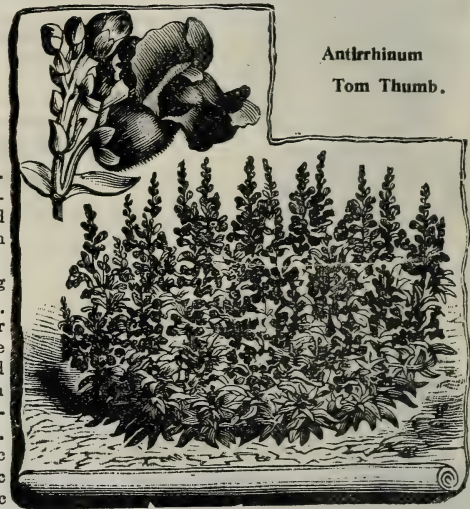
- 24 Grandiflorum Firefly. Large flowering brilliant scarlet. .... 10c
- 25 " Queen Victoria. Large flowering pure white. .... 10c
- 26 " Romeo. Large flowering deep rose. .... 10c
- 27 " Roseum. Large flowering light rose, white throat 10c
- 28 Tall Finest Mixed ..... 05c
- 29 Nanum Golden Queen. Large flowering pure yellow, extra fine. 10c
- 30 " Queen of the North. Grows one foot in height, and covered with large white flowers. A gem for beds, borders and pot culture. .... 10c pkt. 3 pkts. 25c
- 31 Dwarf Finest Mixed ..... 5c
- 32 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 old fashioned favorite is one of the best of all hardy plants. Hardy perennial, 1 to 3 feet. Per pkt.

- 33 Alba Flore Plena. Beautiful double pure white variety, 1½ feet 5c
- 34 Californica Hybrida. Large yellow flowers, with dark orange spurs ..... 10c pkt. 3 pkts. 25c
- 35 Chrysantha. Bright golden yellow, fine; 3 feet ..... 5c
- 36 Cœrulea. (Rocky Mountain Columbine). Sepals deep blue, petals white; extra fine, 3 feet. .... 10c pkt. 3 pkts 25 cts.
- 37 Glandulosa Vera. Large erect blue flowers, with pure white corolla; a splendid flower ..... 10c pkt. 3 pkts. 25 cts.
- 38 Skinneri. Scarlet tipped with green, very handsome and quite distinct ..... 10c pkt. 3 pkts. 25 c
- 39 Double Mixed. Choice colors ..... 5c
- 40 Single, Mixed. Choice colors ..... 5c



Alyssum—Little Gem.



Antirrhinum  
Tom Thumb.



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 is unsurpassed. 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.

- 41 **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. Per pkt. oz. \$5.00, 4 oz. 70c, 3 pkts. 25c, 10c pkt.
- 42 **Betteridge's Improved Quilled.** Perfectly double, quill-shaped petals, valuable for bouquets or bedding. Finest mixed; 1 1/2 ft. . . . . 5c
- 43 **Chrysanthemum Flowered Dwarf.** Compact growth, large double flowers. Finest mixed. 4ft. . . . . oz. \$2.50, 5c
- 44 **Crown or Cocardeau.** Showy double flowers, white centers bordered with bright colors. Finest mixed, 1 1/2 ft. . . . . 10c pkt., 3 pkts. 25cts.
- 45 **Daybreak.** A grand variety. It attains a height of 18 to 24 inches and produces lavishly its perfect globe-shaped flowers of beautiful shell-pink color. A magnificent variety, either for bedding or cut flowers. . . . . 10c pkt. 3 pkts, 25 cts.
- 46 **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.

**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 resemble Japanese Chrysanthemums and are of very large size.



McCullough's Premier Aster.



Poeny Perfection Aster.



Sample's Branching Aster.

	Per pkt.		Per pkt.
47 Azure Blue . . . . .	10c	51 Violet . . . . .	10c
48 Crimson . . . . .	10c	52 White . . . . .	10c
49 Rose . . . . .	10c	53 Yellow . . . . .	10c
50 The Bride, White passing to rose . . . . .	10c	54 Mixed. All colors. . . . .	oz. \$2.50, 10c

Collection containing one packet each of the 7 colors 50c.

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

	Per pkt.		Per pkt.
55 Brilliant Rose . . . . .	10c	59 Rose and White . . . . .	10c
56 Brilliant Scarlet . . . . .	10c	60 Light Blue . . . . .	10c
57 Dark Blue . . . . .	10c	61 Snow White . . . . .	10c
58 Glowing Dark Crimson . . . . .	10c	62 Finest Mixed, all colors . . . . .	oz. \$2.50, 10c

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

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

63 Crimson . . . . .	5c pkt.	66 Rose . . . . .	5c pkt.
64 Dark Blue . . . . .	5c pkt.	67 White . . . . .	5c pkt.
65 Light Blue . . . . .	5c pkt.	68 Mixed. All colors . . . . .	oz. \$2.00, 5c pkt.

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

**Sample'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.

69 Carmine . . . . .	10c pkt.	72 Purple . . . . .	10c pkt.
70 Pink . . . . .	10c pkt.	73 White . . . . .	10c pkt.
71 Lavender . . . . .	10c pkt.	74 Mixed. All colors . . . . .	oz. \$2.00, 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.		Per pkt.
75 Blue and White . . . . .	10c	80 Scarlet . . . . .	10c
76 Crimson . . . . .	10c	81 White . . . . .	10c
77 Dark Blue . . . . .	10c	82 Yellow . . . . .	10c
78 Light Blue . . . . .	10c	83 Finest Mixed. All colors . . . . .	oz. \$3.00, 10c
79 Rose . . . . .	10c		

Collection containing a packet each of the 8 colors 55c.

- 84 **Fine Mixed.** A splendid mixture of colors. oz. 50c, 5c pkt.
- 85 **Perennial Mixed.** (Michaelmas Daisies.) Single flowering; hardy herbaceous plants, thriving in any good garden soil. If sown early in the spring they will flower the first season. . . . . 10c pkt. 3 pkts, 25c.

- 86 ASPARGUS 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.
- 87 ASPARAGUS SPRENGERL. (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.

- 88 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
- 89 Double Camellia Flowered, Mixed. Of perfect form, beautiful colors. .oz. \$1.25, 10c
- 90 Prince Bismark. Brilliant salmon rose flowers; very double, of finest camellia-flowered type. .10c
- 91 White Perfection. The finest pure white grown; flowers unusually large, solid and double. .oz. \$1.50, 10c
- 92 Double Solferino. White, striped, purple and scarlet. .5c
- 93 Double Pink, Rose Flowered. .5c
- 94 Double Scarlet, Rose Flowered. .5c
- 95 Choice Double Mixed. All kinds. .oz. 50c, 5c

**BACHELOR'S BUTTON.**—(See Cyanus.)

**BALSAM APPLE AND PEAR.**—(See Momordica.)

**BALLOON VINE.**—(See Cardiospermum.)

**BEANS.** Very rapid climbers; flowering profusely, and admirably adapted for covering screens, etc.

- 96 Scarlet Runner. Fiery Scarlet. .5c pkt.

**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.

- 97 Frilled. This strain is the finest of the tuberous rooted section. The flowers are of large size; from 4 to 6 inches in diameter, with beautifully frilled and wavy petals, similar to the finest Single Petunias. .pkt. 25c
- 98 Single Tuberous Rooted. From prize winning varieties in finest mixture. .pkt. 15c, 2 pkts. 25c
- 99 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. 25c
- 100 Vernon. Bright orange-carmine flowers, deep red foliage. .pkt. 10c, 3 pkts. 25c
- 101 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.

- 102 Longfellow. Large, double dark pink flowers; with long stiff stems. .10c pkt., 3 pkts. 25c
- 103 Snowball. A beautiful white variety, with long stem, and very double flowers; fine for cutting. .10c pkt., 3 pkts. 25c
- 104 Giant Double. Beautifully and densely imbricated flowers 1½ to 2 inches in diameter. Finest mixed 10c pkt., 3 pkts 25c

**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.

- 105 Brachycome, 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.

- 106 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.

- 106½ Laciniosa. 10 feet .5c pkt.



Balsam McCullough's Premier Mixed.



Single Begonias

**Hints on the Culture of Flowers from Seed.**

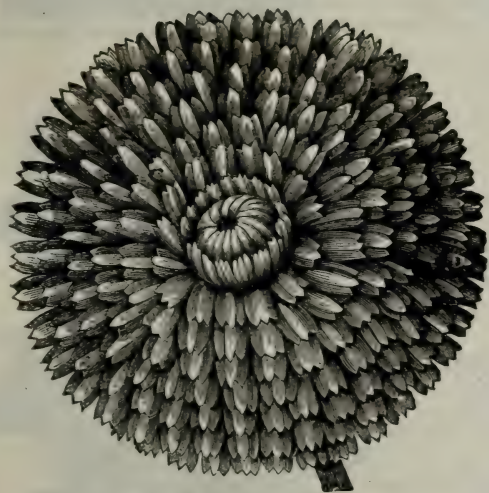
Much annoyance and disappointment may be saved by giving close attention to the following: Avoid especially deep planting, over watering, under-watering, or sowing too thickly.

The bulbs came all O. K., many thanks for the same. We got our bulbs from you last year, and never were they so satisfactory, and true; every one blossomed and many a pleasant word did we hear for them.

ISABEL A. BAKER.



Group of Cacti.



Calendula (Prince of Orange.)



Coreopsis Lanceolata Grandiflora.

**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.

107 Mixed Varieties ..... 15c pkt., 2 pkts. 25c

**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.

Pkt.

108 Meteor. A splendid variety, very large double striped and imbricated flowers, of a deep orange on a pale yellow ground. .... 25c oz., 5c.

109 Pongei Flore Pleno. Showy double white flowers. .... 5c.

110 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. .... 25c oz., 5c.

111 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.

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

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

113 Coronata Maxima. Showy large pure yellow flowers; excellent for bedding hardy annual. .... 40c oz., 5c pkt.

114 Golden Wave. A very showy sort, with bright golden-yellow flowers, with small dark centers, blooming profusely. Hardy annual. .... 30c oz., 5c pkt.

115 Finest Mixed. All colors mixed. Hardy annual. .... 30c oz., 5c pkt.

116 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

117 Lanceolata Golden Fleece. Rich deep golden-yellow flowers, 3 inches across, with from 14 to 16 lacinated petals and a row of narrow petals around the disc, making an almost double flower. Its name was suggested by the soft, fluffy appearance of the flowers. One of the best hardy perennials. .... Pkt. 15 cts., 2 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.

118 Calycanthema. (Cup and Saucer). A fine variety producing white, blue, and rose colored flowers resembling a Cup and Saucer. .... 5 cts. pkt.

119 Persicifolia Grandiflora. One of the finest of the hardy Bellflowers, grows 2 to 3 feet high with large blue or white flowers; finest mixed. .... Pkt 10 cts. 3 pkts. 25cts.

120 Double Mixed. All colors. .... .5 cts. pkt.

121 Single Mixed. All colors. .... 5 cts., pkt.

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

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

**FOR EARLY BLOOM.**

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

What we cannot recommend we do not Catalogue, and what we do not Catalogue you do not want.

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

Dear Sirs—I take pleasure in saying that my Sweet Peas, grown from seed purchased from you in the Spring, were a success in every way. I was late in getting them in the ground, and did not anticipate much from them, but they surprised me. They not only commenced blooming early, but continued all Summer, and such magnificent blossoms, the greatest variety in color, and the vines loaded. They were simply gorgeous. I may also add that I have had the best results from everything purchased at your house.

Very respectfully,

Cynthiana, Ky., October 24, 1895.

MRS. I. S. GIVENS.

**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 till frost comes. Hardy and easy to cultivate. Single plants transplanted look well and bloom profusely. Hardy annuals. Per pkt.

- 123 **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
- 124 **Empress, or Snow Queen.** Large trusses of pure white flowers, fine florist's variety..... oz. 30c, 5c
- 125 **White Rocket.** Pure white, large truss..... oz. 20c, 5c
- 126 **Odorata.** Pure white, sweet-scented flowers; pinnated foliage; 1 ft. oz. 20c, 5c
- 127 **Carmine**..... oz. 25c, 5c
- 128 **Atropurpurea.** Dark crimson..... oz. 20c, 5c
- 129 **Finest Mixed.** All colors..... oz. 20c, 5c
- 130 **Tom Thumb.** Finest mixed; all colors; 6 inches..... 5c
- 131 **Perennial Candytuft Sempervirens.** A profuse white-blooming hardy perennial, adapted for rockeries, baskets, etc.; 1 foot..... 5c
- 132 **Perennial Candytuft Gibraltarica Hybrida.** Very fine species, with white flowers shading off to lilac; 1 foot..... 3 pts 25c, 10c

**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.

- 133 **Crozy's New Large-flowering Dwarf, French.** Comprising all the newest and most beautiful varieties. (See cut)..... oz. 40c, 5c
- 134 **Gigantea Major.** Dark red; 6 to 8 feet..... 5c
- 135 **Dark-leaved Varieties.** Fine mixed..... 5c
- 136 **Fine Mixed**..... oz. 25c, 5c

**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.

- 137 **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
- 138 **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..... 3 pkts 25c, 10c
- 139 **Chabaud Giants.** (Earliest French Perpetual.) Improved large-flowering class of finest colors. Combining earliness with the perfection of flowers of the perpetuals..... 3 pkts 50c, 20c
- 140 **Grenadin.** Brilliant double scarlet, dwarf..... 3 pkts 25c, 10c
- 141 **Extra Choice, Mixed.** From the finest-named varieties.... 2 pkts 25c, 15c
- 142 **Fine Double, Mixed.** The hardiest and best varieties for garden culture..... 3 pkts 25c, 10c

**CASTOR OIL BEAN.**—(See *Ricinus*.)

I have been using your seed for years. They are never failing and I take pleasure in recommending them.

MRS. R. M. MARTIN.

**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.

Falmouth, Ky., October 31, 1905.

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

Dear Sirs—For several years I have bought flower seeds of you and always have had good results. This year's *Nasturtium* proving perpetual and abundant bloomers until the frost killed the vines. The same successful results from the Sweet Pea Seed.

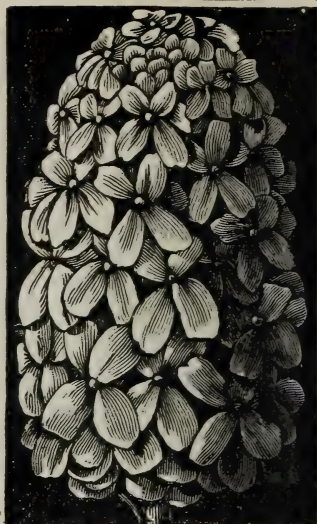
Respectfully, MRS. E. E. DUDLEY.

Huntington, Ind., September 13, 1905.

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

Dear Sir—For years I have availed myself of your very generous offers, and I have never yet been disappointed in any order you have sent me. I have been especially pleased with your bulbs.

Sincerely yours, MRS. D. M. HAWLEY.



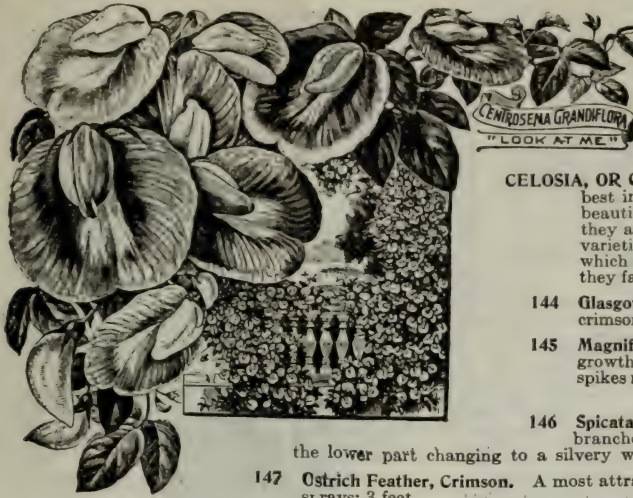
Candytuft Giant Hyacinth Flowered



Crozy's Cannas.



Marguerite Carnation.



**CENTROSEMA.** (Butterfly Pea.) This interesting and beautiful hardy perennial vine is 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.

143 *Grandiflora* . . . . . pkt. 10c, 3 pkt. 25c

**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.

144 *Glasgow Prize*. A superb sort, with enormous rich deep crimson combs . . . . . 10c pkt; 3 pkts. 25c.

145 *Magnifica*. A fine variety of true pyramidal branching growth; covered with handsome feathery plumes, the flower spikes range in color from yellow to darkest red, . . . . . 10c. pkt.; 3 pkts., 25c

146 *Spicata*. A handsome variety 2½ feet high, with numerous branches surmounted, with flower spikes of a bright rose color, silvery white, making a very pleasing contrast . . . . . 5cts. pkt.

147 *Ostrich Feather, Crimson*. A most attractive strain, with fine long-plumed or feathered flower sprays; 3 feet. . . . . 5c pkt.

148 *Golden Plume*. Pyramidal habit. Flowers bright golden yellow. . . . . 5c pkt.

149 *Plumosa, Finest Mixed*. Charming annual, with magnificent feathered spikes; 1½ feet . . . . . 5c pkt.

**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.

150 *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. The plant itself is much stronger than any other Sweet Sultan; of easy culture, but prefer a cool position. Finest mixed. oz. 50c; 5c pkt

151 *Chameleon*. Large fragrant flowers, constantly changing in hue from a bright yellow to lilac and rose . . . . . 10c pkt; 3 pkts. 25c.

152 *Marguerite*. A pure white variety, with large and deliciously fragrant flowers; fine for bouquets. . . . . 5c pkt.

153 *Sauveolens*. Beautiful, yellow, thistle-like, sweet scented flowers. . . . . 5c pkt.

154 *Cyanus Emperor William*. Finest dark blue. .oz. 20c, 5c pkt.

155 *Cyanus Finest Mixed*. All colors. . . . . oz. 20c, 5c pkt.

156 *Cyanus Double*. Produces double globular heads of flowers of large size and filled up to the centre with florets; the mixture we offer contains many novel new colors, some prettily striped. . . . . oz. 30c, 5c pkt

157 *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.

158 *Candidissima*. Silvery white, leaves broadly cut. . . . . 10c pkt; 3 pkts. 25c.

159 *Gymnocarpa*. Fine-cut silver gray foliage. . . . . oz. \$1.00, 10c pkt; 3 pkts. 25c.

160 **CEPHALIPTERUM DRUMMONDI.** (Australian Star Flower.) This unique and beautiful plant grows readily from seed in any ordinary garden soil, preferring a rather sandy one. Blooms early in the season and continues in bloom for a long time. The fragrant flowers are of a peculiarly pleasing rosy crimson shade, sometimes approaching pure white, are produced in large graceful cluster which when cut will retain their form and color permanently, no other flower in any way equalling it in grace and keeping qualities. Full grown plants are about one foot high and the same across. Sow early in the open ground, or may be started early in the house and transplanted. Half-hardy annuals. . . . . pkt. 10c; 3 pkts. 25c



Celosia. Glasgow Prize



Cephalipterum Drummondii (Australian Star Flower.)

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 seedmen, with a reputation made and to be maintained.

- 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. Pkt.
- 161 **Eclipse.** Golden yellow, with a bright scarlet ring and dark brown disc ..... 5c
  - 162 **Segetum Morning Star.** Beautiful large, pale yellow or primrose flowers, excellent for cut flowers. .... 5c
  - 163 **Segetum Helios.** (Golden Marguerite.) The flowers, which are 3 to 4 inches across, are a pure golden yellow, and last for several days when cut. In general appearance it resembles the Yellow Paris Daisy, but requiring only the culture of an ordinary annual. .... 10cts. pkt., 3 pkts. 25 cts.
  - 164 **The Sultan,** Crimson maroon, golden yellow centre ..... 5c
  - 165 **Coronarum.** Double white ..... 5c
  - 166 **Coronarum.** Double yellow ..... 5c
  - 167 **Double Fringed Hybrids.** Fine strain, with large, double, beautifully fringed flowers in many colors. .... 5c
  - 168 **Finest Mixed.** Double and single, extra choice ..... oz. 25c, 5c
  - 169 **Inodorum Pleno.** Double, snow-white very free-flowering, and fine for cutting. A perennial, flowering the first year from seed 10c
  - 170 **Maximum King Edward VII.** This is undoubtedly the best variety of this popular hardy perennial, the flowers being of large size, purest white and perfect form, and exceedingly free flowering. .... 15 cts. pkt.; 2 pkts. 25cts.
  - 171 **Maximum Princess Henry.** It forms a bushy, compact globular plant 18 inches high, producing in great abundance, during late summer and fall, magnificent, large white flowers. They have long stems, are highly prized for cutting, lasting in water fully a week. It flowers the first season from spring-sown seed, and comes up every summer in the same beauty for many years. .... 10cts. pkt., 3 pkts. 25 cts.
  - 172 **Japanese Hybrids.** Saved from a magnificent collection, from blooms that have been carefully crossed, and may be expected to produce some rare novelties in this popular flower. Seeds sown in spring will produce flowering plants by fall. .... 15 cts. pkt, 2 pkts. for 25c.



Single Chrysanthemum

- CINERARIA.** A well-known greenhouse plant, having a range and brightness of color scarcely surpassed. It may be had in bloom through the greater part of the year. Seed should be sown from July to October for winter blooming. When the pots become full of roots, shift into larger ones till the flowering size is reached. Pkt.
- 173 **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
  - 174 **Stellata.** A charming variety, with large spreading panicles of starry flowers in the same variety of colors as the Hybrid Cineraria; the extreme grace and elegance of the plant and flowers make them wonderfully effective for the decoration of the house or Conservatory. .... 25c
  - 175 **Maritima Candidissima.** (Dusty Miller.) Silver foliage. Fine for bedding; ribbon beds and margins, half-hardy perennials. 2 feet ..... oz. 75c. 5c
- 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.
- 176 **Scandens.** Large, bell-shaped purple flowers. .... 5c pkt.
  - 177 **Scandens Alba.** Pure white. .... 10c pkt., 3 pkts. 25c
- COLEUS.** One of the most beautiful of our variegated foliage plants for house or garden decoration, of rapid growth and easy culture.
- 178 **Large-Leaf Varieties.** Finest mixture, saved from varieties, with very large and superbly variegated foliage. 20c pkt. 3 pkts. 50c



Cineraria Hybrida Grandiflora.

**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.
- 179 **Finest Mixed.** All colors. .... oz. 15c; 5c pkt.
  - 180 **Double Flowering.** About eighty per cent. of the seedlings will produce double flowers, the remainder semi-double or single. .... 5c pkt.
  - 181 **Imperial Japanese.** 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. Of easy culture, and it sown early will produce magnificently. Choicest mixed. .... oz. 25c; 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.
- 182 **Scarlet** ..... oz. 25c; 5c pkt.
  - 183 **White** ..... oz. 25c; 5c pkt.
  - 184 **Mixed Colors** ..... oz. 25c; 5c pkt.



Imperial Japanese Morning Glory





Cosmos.



Cyclamen.



Double Dahlias.

**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.

- 185 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.
- 186 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.

- 187 Large-Flowered Perfection. **Crimson** ..... oz. 75c; 5c pkt.
- 188 " " " **Pink** ..... oz. 75c; 5c pkt.
- 189 " " " **White** ..... oz. 75c; 5c pkt.
- 190 " " " **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 stalks, throwing the flowers well above 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.

- 191 Duke of Connaught. Rich purplish crimson, of unusually large size. .... 25c pkt.
- 192 Excelsior. White, red base; fine ..... 25c pkt.
- 193 Mont Blanc. Pure white; extra fine ..... 25c pkt.
- 194 Princess May. Bright pink, beautiful large flowers of fine form. .... 25c pkt.
- 195 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. 60c

**DAHLIA.** One of our 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.

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

**DATURA.** (Trumpet Flower). In large clumps and borders of shrubby type 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.

- 200 Arborea. (Brugmansia.) Large single trumpet-shaped, white, fragrant flowers, about 12 inches long; plant out in May. .... 10c pkt.; 3 pkts. 25c
- 201 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. 25c
- 202 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.

- 203 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. 25c
- 204 Elatum (Bee Larkspur.) Rich deep blue, very free blooming. 4 feet ..... 5c pkt.
- 205 Elatum Hybridum Fl. Pl. Finest double sorts in choice colors; a superb mixture ..... 10c pkt.; 3 pkts. 25c
- 206 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.; 3 pkts. 40c
- 207 Formosum. Beautiful spikes of brilliant rich blue flowers, with a white center. 2 1/2 feet ..... 5c pkt.
- 208 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.; 3 pkts. 40c
- 209 Nudicaule. Dwarf, compact growth, with spikes of bright scarlet flowers; 18 inches ..... 10c pkt.; 3 pkts. 25c
- 210 Zallii. A lovely shade of sulphur yellow, 4 ft. .... 10c pkt.; 3 pkts. 25c

**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.**

- |     |                       |  |      |
|-----|-----------------------|--|------|
| 211 | Chinensis Fl. Pl.     | (Chinese Pink.) Double finest mixed. ....oz. 30c, 5c                                       | Pkt. |
| 212 | Heddeiwigii Fl. Pl.   | (Japan Pink.) Very large flowers. ....oz. 60c, 5c  |      |
| 213 | Heddeiwigii Fireball. | Double brilliant scarlet, free blooming. ....oz. 10c                                       |      |
| 214 | Heddeiwigii Purity.   | A large flowered, double pure white variety; clove scented. ....10c pkt                    |      |
| 205 | Diadematus Fl. Pl.    | (Diadem Pink.) Beautiful large double flowers, splendid variety. ....oz. 75c, 5c pkt       |      |
| 216 | Imperialis Fl. Pl.    | (Double Imperial Pink.) A very pretty variety, beautifully variegated. ....oz. 60c, 5c pkt |      |
| 217 | Laciniatus Fl. Pl.    | Large double flowers, with fringed edges and beautifully striped. ....oz. \$1.00, 5c pkt   |      |
| 218 | Mourning Cloak.       | Double purple, margined with white; very fine. ....oz. 75c, 5c pkt                         |      |

**[SINGLE ANNUAL VARIETIES.**

- |     |                            |   |      |
|-----|----------------------------|---|------|
| 219 | Crimson Belle.             | Of largest size, dark crimson. ....oz. \$1.00, 5c   | Pkt. |
| 220 | Eastern Queen.             | Beautifully marked with light and dark mauve. ....5c  |      |
| 221 | The Bride.                 | (Little Gem.) Large single, white, purple center very pretty. ....oz. \$1.00, 5c pkt                        |      |
| 222 | Laciniatus.                | A beautiful single-fringed variety, two to three inches in diameter. Mixed colors. ....5c pkt               |      |
| 223 | Laciniatus, Nanus Hybrids. | Very showy, fringed petals, with a dark ring around the centers of flowers; a charming novelty. ....10c pkt |      |

**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.

- |     |                             |   |
|-----|-----------------------------|---|
| 224 | Perpetual.                  | Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. ....20c pkt.; 3 pkts. 50c   |
| 225 | Oriental Beauties.          | A magnificent strain. They range in color from pure white through shades of pink and crimson. Perfectly hardy are perpetual bloomers, needing only to be cut back every few weeks to bring on a new crop of flowers. ....10c pkt.; 3 pkts.; 25c |
| 226 | Plumarius (Pheasant's-eye.) | A beautiful, single hardy pink, with fringed edge white flowers, with a dark center. ....5c pkt   |
| 227 | Plumarius Fl. Pl.           | Double and semi-double varieties in beautiful colors. ....10c pkt.; 3 pkts. 25c   |

**DIGITALIS.** (Foxglove.) A handsome and highly ornamental hardy perennial plant, of stately growth, fine for shrubberies and half-shady places; 3 feet etc.

- |     |                  |   |
|-----|------------------|---|
| 228 | Gloxinaeflora.   | Gloxinia-shaped flowers; a lovely type; all colors mixed. ....5c pkt                          |
| 229 | Ivory's Spotted. | A splendid strain, containing all the best shades of color and exquisite markings. ....5c pkt |
| 230 | 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.

- |     |           |  |
|-----|-----------|--|
| 231 | 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 |
| 232 | 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.

- |     |           |   |
|-----|-----------|---|
| 233 | Indivisa. | Narrow, dark green foliage. ....10c pkt.; 3 pkts. 25c |
|-----|-----------|---|

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

**ECHINOCYSTIS.** (Wild Cucumber vine.)

- |     |         |  |
|-----|---------|--|
| 234 | 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 a rich soil. Very attractive for beds, edging or massing. Hardy annuals; 1 foot.

- |     |               |   |
|-----|---------------|---|
| 235 | Californica.  | Bright yellow, with orange center. ....oz. 25c, 5c pkt  |
| 236 | 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. 25c.   |
| 237 | Golden West.  | The flowers measure from 3 to 6 inches 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. |
| 238 | Finest Mixed. | All colors. ....oz. 20c, 5c pkt.  |

**EVERLASTING, ETERNAL OR STRAW FLOWERS.**

(See Acroclinium, Ammobium, Gomphrena, Helichrysum, Rhodanthe 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.

- |     |                                      |   |
|-----|--------------------------------------|---|
| 239 | Heterophylla.                        | (Annual Poinsettia, Mexican Fire Plant, or Fire on the Mountain.) An annual bushy plant, with highly ornamental leaves, which in summer and autumn become blazed with a darker fiery red scarlet, so that only a tip of green is left. Also valuable as a pot plant. 3 to 4 feet. ....10c pkt.; 3 pkt 25c |
| 240 | Variiegata ("Snow on the Mountain"). | A hardy, showy border plant, with foliage veined and margined with white. Very attractive; 1½ ft. Hardy annual. ....5c pkt  |

**FEVERFEW.**—(See Pyrethrum.)  
**FORGET-ME-NOT.**—(See Myosotis.)  
**FOXGLOVE.**—(See Digitalis.)



Dianthus.



Eschscholtzia Californica.



Euphorbia Heterophylla.



Gaillardia, Kelway's Hybrids.



Geranium.



Gloxinia.



Gompfhrena.

**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; 1½ feet.

- 241 *Picta Lorenziana.* A charming profuse double-flowering strain; beautiful mixed colors . . . . . 5c pkt
- 242 *Finest Mixed.* All colors. . . . . 5c pkt
- 243 *Kelway's Hybrids.* The finest strain of Perennial Gaillardias. The flowers are of enormous size, and the colors the 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, 25c

**GERANIUM.** Although perennials they will produce nice bushy plants and flowers from seed sown 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.

- 244 *Apple Scented.* Leaves delightfully fragrant; highly prized for bouquets. . . . . 15c pkt, 2 pkts 25c
- 245 *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 spring repot and water freely; will blossom second season. *Stove perennial bulbs.*

- 246 *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.

- 247 *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.

- 248 *Fine Mixed* . . . . . 5c pkt

**GODETIA.** An attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors; 1½ feet.

- 249 *Duchess of Albany.* Beautiful, large flowers, of rich satiny-white. . . . . 5c pkt
- 250 *Lady Albemarle.* Carmine-crimson. Compact habit. Very beautiful. . . . . 5c pkt
- 251 *Finest Mixed* . . . . . 5c, 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;

- 252 *Briza Maxima.* (Large Quaking Grass.) A beautiful variety. Hardy annual; 1 foot. . 5c
- 253 *Bromus Brizæformis.* A graceful variety, with drooping panicles. Hardy perennial, flowering the first season; 1 foot. . . . . 5c
- 254 *Coix Lachryma.* (Job's Tears.) Broad, corn-like leaves, and hard, shining, pearly seeds, resembling tears; 2 ft. . . . . 5c
- 255 *Erianthus Ravennæ.* A hardy perennial, noble grass, with exquisite white plumes. Flowers the first season if sown very early; 10 feet. . . . . 5c
- 256 *Eulalia Japonica.* One of the most beautiful of the tall-growing grasses; hardy; 5 feet 5c
- 257 *Gynerium Argenteum.* (Pampas Grass.) The finest ornamental grass in cultivation. Half-hardy perennials; 10 ft. . . . . 5c
- 258 *Pennisetum Ruppelianum.* Beautiful and graceful spikes of purple; whether for border decoration or for bouquets this is one of the best; 2½ feet. . . . . 10c
- 259 *Stipa Pennata.* (Feather Grass.) A hardy perennial; flowers the second season from seed; 2 feet. . . . . 5c
- 260 *Finest Mixed.* Used for making winter bouquets. . . . . 5c
- 261 *GREVILLEA ROBUSTA.* (Silk Oak.) A very beautiful and graceful decorative plant with fern-like foliage; excellent for table decoration; easily raised from seed, producing good-sized plants in a short time. . . . . 10c pkt., 3 pkts, 25c

**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.

- 262 *Paniculata.* White, fine for bouquets. . . . . 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.

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

Gentlemen:—I have purchased seed from you for a number of years, and feel it is time to say something in their praise, for they have done all you claim for them, and more, too. Yours very truly,

B. F. MAGILL, Piqua, Ohio.

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.

Wilson, Ohio, October 31, 1905

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.

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



Gourds.

- HELIANTHUS.** (Sun Flower.) Remarkable for the stately growth, size and brilliancy of their flowers. It is also raised as an absorbent of miasma in damp or ill-drained situations, thus preventing fevers. The seed is good for feeding poultry. Hardy annuals.
- 272 Californica. Very large, double orange flowers. 7 feet. .... oz. 20c, 5c pkt.
  - 273 Crysanthemum-Flowered. An excellent plant for the lawn or shrubberies where color effect is desired. The plants grow 6 to 7 feet high and produce a great number of double flowers. On account of their size, long stems and color the flowers are well adapted for vases. .... oz. 25c, 5c pkt.
  - 274 Cucumerifolius Perkeo. The plants form compact bushes about 12 inches high. Can be used to good advantage as a border for plants of medium height. Flowers from July until cut down by frost a charming miniature sunflower ..... 50c oz. 5c. pkt.
  - 275 Cucumerifolius Stella (Miniature.) Large single, golden yellow, with dark center; handsomely formed; freely produced on long stems; excellent for cutting ..... oz. 25c. 5c pkt.
  - 276 Globosus Fistulosus (Dahlia Sunflower.) Flowers large, double, of a rich saffron color. 6 feet ..... oz. 25c, 5c pkt.
  - 277 Mammoth Russian. Extra large flowers, with an abundance of seed. .... oz. 10c. 5c pkt.
  - 278 Multiflorus. Large double golden-yellow flowers, forming a magnificent ball. 4 feet ..... 5c pkt.
  - 279 Nanus Fl. Pl. (Globe of Gold.) Dwarf double orange flowers, 4 feet. .... oz. 25c, 5c pkt.
  - 280 Silverleaf. Silvery foliage, and small single, golden-yellow flowers, with jet-black center ..... oz. 30c, 5c pkt.
  - 281 Finest Double Varieties, Mixed. .... oz. 20c, 5c pkt.



Helianthus Cucumerifolius.

**HELICHRYSUM.** Everlasting flowers, large and full. Colors, white, yellow, and red. Cut before the flowers fully expand. Hardy annual.

- 282 Double. Finest, mixed ..... 5c pkt.

**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.

- 283 Lemoine's Giant. Of robust growth and producing heads of flowers double the size of the old sort. .... 10c pkt., 3 pkts. 25c.
- 284 Royal Highness. Of rapid growth, forming immense plants that spread and climb to the height of 10 or 12 feet. It has splendid large trusses of rich purple flowers, and is a profuse bloomer. As a covering for walls or bay windows, or hedges, or as a pot plant, it is invaluable. .... 10c pkt., 3 pkts, 25c
- 285 Finest Mixed. All colors. .... 5c pkt.



Heliotrope.

**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.

- 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 unrivalled 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 and present a handsome appearance when covered with their artistic blossoms ..... 10c pkt.; 3 pkts 25c



Hollyhock.



Humulus Japonicus Variegatus.



Moon Flower, Cross Bred or Hybrid.



Lobelia, Crystal Palace Compacta.

- HIBISCUS.** (Marsh Mallows.) Showy, ornamental plants, for mixed beds or shrubby borders having large-sized, varied and beautiful-colored flowers.
- 297 **Hibiscus Africanus.** Large, cream-colored flowers, with a brown center; hardy annual. 1½ feet. . . . .5c pkt.
  - 298 **Crimson Eye.** Flowers of the largest size, pure white, with a 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.
- 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.
- HUNNEMANNIA FUMARIÆFOLIA.** (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 Cannæ.)

- IMPATIENS.** (Zanzibar Balsam.) Charming plants for the decoration of the green-house 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.
- 305 **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
  - 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. . . . .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.

**IRIS KÆMPFERI** (Japanese Iris.) An excellent addition to our hardy perennial plants. Flowers large, six to eight inches in diameter, and quite distinct from all other varieties.

- 309 **Double and Single.** Mixed colors. . . . .5c pkt.
- For immediate results it is necessary to get roots of Japanese Iris.)  
See page 67.

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

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

**LADY SLIPPER.** (See Balsam.)

**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.

**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.

- 312 **Crystal Palace Compacta.** Rich blue; finest for bedding. . . . .10c
- 313 **Gracilis.** Pale blue, trailing; fine for vases. . . . .5c
- 314 **Royal Purple.** Deep blue, with white eye and dark stalks. . . . .10c
- 315 **Speciosa.** Dark blue, trailing; fine for vases. . . . .5c
- 316 **White Gem.** Pure white and very beautiful. . . . .10c
- 317 **Cardinalis Hybrids.** Splendid hybrids mixed; highly recommended. Hardy perennial; 2 feet. . . . .10c pkt.; 3 pkts. 25c
- 318 **Cardinalis Queen Victoria.** Brilliant scarlet; very dark leaves; splendid hardy perennial; 2 feet. . . . .10c pkt.; 3 pkts. 25c

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

- 319 Dwarf Rocket. Finest mixed, double; 1 foot.....5c pkt.
- 320 Tall Rocket. Finest mixed, double; 2½ feet.....5c pkt.
- 321 Double Stock-flowered. Fine for bedding. Choice mixed. 2 feet.  
(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.

- 322 Splendens. Large deep crimson flowers. 10c pkt., 3 pkts. 25c
- 323 Fine Mixed.....5c pkt.

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

- 324 Lavendula. 1½ feet.....5c pkt.

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

- 325 Annual Varieties. Mixed colors. 3 feet.....5c pkt.
- 326 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, 2 feet.

- 327 Chalcedonica. The scarlet Lychnis, an old garden favorite, very hardy. 3 to 4 feet.....5c pkt.
- 328 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.

- 329 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.

- |   |          |
|---|----------|
|   | Oz. Pkt. |
| 330 African El Dorado. Flowers very large, imbricated and extremely double; colors all shades of yellow. 3 feet.....                        | 40 5c    |
| 331 African Lemon. Large double, lemon color. 3 feet.....   | 40 5c    |
| 332 African Orange. Large double, orange color. 3 feet.....   | 40 5c    |
| 333 French Scotch Prize. A fine strain, with admirably striped double flowers. 1 foot.....  | 5c       |
| 334 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.

- 335 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.

- 336 Grandiflora Fl. Pl. 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.

- 337 Barclayana. Deep violet; fine. 10 feet.10c pkt.; 3 pkts. 25c.
- 338 Finest Mixed. All colors. 10 feet.....10c pkt.; 3 pkts. 25c.

**MIGNONETTE.** (Reseda Odorata.) A well known hardy annual, producing dense semi-globular heads of fragrant flowers, borne 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. |
| 339 Grandiflora. Large-flowering, fragrant.....  | 15 5c    |
| 340 Allen's Defiance. One of the finest sorts; enormous spikes, with individual florets of immense size; very fragrant; excellent for forcing..... | 75 10c   |
| 341 Gabriele. Hardy and vigorous growth, with strong, large red spikes, of delicious fragrance.....  | 5c       |
| 342 Mchet. Dwarf pyramidal growth, with very large thick spikes, deliciously fragrant; one of the best for forcing.....                            | 75 10c   |
| 343 Mchet, Golden. Thick massive spikes of golden yellow fragrant flowers.....   | 10c      |
| 344 Miles Spiral. Dwarf branching habit, with long spikes fragrant, excellent for market purposes.....   | 25 5     |



Marigold El Dorado.]



Marvel of Peru.

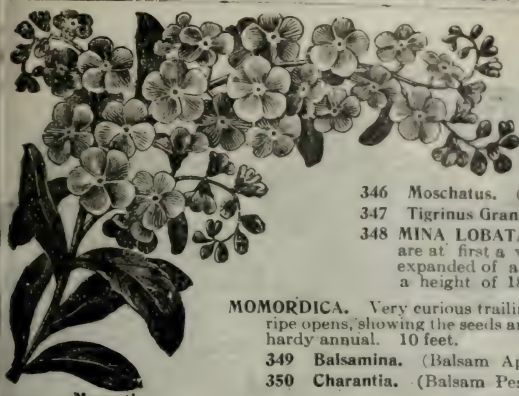


Mignonette Mchet.

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

Dear Sirs:—The flower and garden seeds I purchased of you last spring were very satisfactory and every seed came up true to name. I can cheerfully recommend your seed to any one. Yours truly,

C. VAN WATERMEULEN, Kewanee, Ill.



Myosotis.



Momordica Charantia.



Nicotiana Sanderac.

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.  $\frac{1}{2}$  feet.  
345 *Podica*. 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.  
346 *Moschatius*. (Musk Plant.) Yellow, very fragrant,  $1\frac{1}{2}$  ft. . . . . 5c pkt.  
347 *Tigrinus Grandiflorus*. Beautiful, large flowered, tigered and spotted varieties 10c pkt.  
348 *MINA LOBATA*. Charming half-hardy, Mexican climbing annual. In color the buds are at first a vivid red, but turn to orange-yellow before they open, when fully expanded of a creamy white shade. They flower from base to top, and attain a height of 18 to 20 ft. Seed should be sown early. . . . . 10c pkt.

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.

- 349 *Balsamina*. (Balsam Apple) . . . . . 5c pkt.
- 350 *Charantia*. (Balsam Pear) . . . . . 5c pkt.

MOON FLOWER.—(See *Ipomea*.)

MORNING GLORY.—(See *Convolvulus*.)

MOURNING BRIDE.—(See *Scabiosa*.)

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.

- 351 *Alpestris Victoria*. Of bushy habit, bearing large bright azure-blue flowers; very fine. . . . . 10c pkt.
- 352 *Dissitiflora*. Compact habit, profuse bloomer; exquisite blue; an attractive spring bedding plant. 6 inches. . . . . 10c pkt.
- 353 *Palustris*. The true Forget-Me-Not; beautiful blue flowers; 6 inches. . . . . 10c pkt.
- 354 *Palustris Semperflorens*. A charming dwarf Forget-Me-Not continuing in bloom from early spring until autumn, blue 8 inches. . . . . 10c pkt.
- 355 *Robusta Grandiflora*. Large-flowering, pyramidal habit, centre flowers are double, remarkably fine. . . . . 5c pkt.

The J. M. McCullough's Sons Co., Cincinnati, O.  
Dear Sir:—I take pleasure in saying I have been ordering from your firm for years, and always been pleased with plants and seeds sent me. If you think this would be of any assistance to your well-known firm, you can use it.

Respectfully,  
MRS. R. F. WILLIAMSON, Catlettsburg, Ky.

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.

- 356 *Affinis*. White, very fragrant. 2 to 3 ft. . . . . 5c pkt.
- 357 *Sanderac*. This is the half-hardy annual of the century, and among Nicotianas we know nothing approaching it in floriferousness, nor in its graceful and copiously branching habit. The whole plant is laden with flowers from base to summit—literally ablaze with handsome carmine red blossoms, thousands of which are produced on a single plant. This valuable novelty is undoubtedly destined for universal use, and everyone can grow it successfully. It is a plant for the million, possessing all the best qualities of *Nicotiana Affinis*, with myriads of lovely *Calanthe*-like flowers. Seed sown early in the season, transplanted into boxes, and planted out in May in the position where they are intended to flower. There is no plant that is easier to grow. . . . . 20c pkt.; 3 pkts. 50c

NIGELLA. (Love in a Mist.) Free flowering and compact growing plants, with curiously-looking flowers and seed pots. Hardy annual.

- 358 *Fine Mixed*.  $\frac{1}{2}$  ft. . . . . 5c pkt.
- NYCTERENIA. Neat plants, with large heads of sweet-scented star-shaped flowers, produced through the whole season. Hardy annual.
- 359 *Capensis*. White, yellow centre.  $\frac{1}{2}$  ft. . . . . 5c pkt

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.

- 360 *Alba*. White . . . . . Per pkt. 5c
- 361 *Rosea*. Rose-colored flowers . . . . . 5c
- 362 *Tropaeoloides*. Flowers, deep yellow, foliage dark brown. . . . . 5c
- 363 *Mixed*. Finest varieties. . . . . 5c

Lowell, W. Va., November 1, 1905.

The J. M. McCullough's Sons Co., Cincinnati, Ohio:  
Dear Sirs—The garden and flower seeds we 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.

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.



## NASTURTIIUMS.

### 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.		Oz.	Pkt.
364 Aurora. Chrome-yellow, spotted and striped with deep crimson.....	15c	5c	374 Luteum. Fine yellow.....	15c	5c
365 Beauty. Yellow-striped red.....	15c	5c	375 Pearl. Creamy white.....	15c	5c
366 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	376 Prince Henry. Golden yellow, marbled and spotted with brilliant scarlet.....	15c	5c
367 Crystal Palace Gem. Sulphur spotted maroon.....	15c	5c	377 Queen of Tom Thumbs. Flowers rich crimson, which forms a pretty contrast to the silver variegated foliage, and is a strikingly handsome and useful bedding plant. It is free flowering and unlike most variegated plants comes true from seed.....	10c	3 pks. 25c
368 Empress of India. Splendid variety, brilliant crimson with dark foliage.....	15c	5c	378 Rose. Light rose splendid color.....	15c	5c
369 Golden King. Brilliant yellow.....	15c	5c	379 Ruby King. Brilliant crimson rose.....	15c	5c
370 King of Tom Thumbs. Intense deep scarlet flowers, dark foliage.....	15c	5c	380 Spotted King. Orange, spotted crimson.....	15c	5c
371 King Theodore. Dark maroon, bluish-green foliage. One of the best.....	15c	5c	381 Vesuvius. Brilliant salmon pink.....	15c	5c
372 Lady Bird. Rich golden yellow, barred with bright ruby crimson.....	15c	5c	382 McCullough's Premier Mixed. A mixture from finest named varieties.....	lb. \$1.25; 1/2 lb. 40c; 1/4 lb. 25c.	15c 5c
373 Liliput or Miniature. This is a dwarf compact form of the well-known Tropaeolum Lobbianum. It forms small dense bushes which are fairly hidden by flowers, the colors of which are very varied.....	20c	5c	383 Fine Mixed. All colors.....	lb. 80c; 1/2 lb. 25c.	10c

A. Dwarf Nasturtium, 12 varieties, our choice, 1 pkt. each 35c  
 B. Dwarf Nasturtium, 12 varieties, our choice, 1 oz. each \$1.00

### TALL NASTURTIIUMS.

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.
384 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	392 Rose. A fine shade, very attractive.....	15c	5c
385 Crimson. Deep rich color.....	15c	5c	393 Scarlet. Brilliant scarlet, fine.....	15c	5c
386 Heinemann. Chocolate color.....	15c	5c	394 Spotted. Scarlet, spotted.....	15c	5c
387 King Theodore. Rich dark maroon, dark leaves.....	15c	5c	395 Vesuvius. Brilliant salmon rose, dark leaves; extra large flowers.....	15c	5c
388 Luteum. Fine yellow.....	15c	5c	396 McCullough's Premier Mixed. A mixture from finest named varieties.....	lb. \$1.25; 1/2 lb. 40c; 1/4 lb. 25c.	15c 5c
389 Orange. Orange red, fine color.....	15c	5c	397 Fine Mixed. All colors.....	lb. 80c; 1/2 lb. 25c.	10c
390 Pearl. Creamy white.....	15c	5c			
391 Prince Henry. Light yellow, marbled and striped with bright scarlet.....	15c	5c			

C. Tall Nasturtium, 12 varieties..... 1 pkt. of each 35c  
 D. Tall Nasturtium, 12 varieties..... 1 oz. of each \$1.00

### LOBB'S NASTURTIIUMS.

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.

398 Asa Gray. The lightest color yet obtained; sulphur yellow, very delicate.....	oz. pkt.	20c	5c
399 Geant des Batailles. Sulphur spotted red.....	20c	5c	5c
400 Lucifer. Very dark scarlet, splendid.....	20c	5c	5c
401 Margaret. Light yellow, with blood red spots and spurs.....	20c	5c	5c
402 Napoleon III. Golden yellow, spotted with brown.....	20c	5c	5c
403 Roi des Noirs. Black brown.....	20c	5c	5c
404 McCullough's Premier Mixed.....	40c 1/2 lb., 15c	5c	5c

#### PREMIER COLLECTIONS.

- F. Lobbianum Nasturtium, 6 varieties..... 1 pkt. of each 20c
- G. Lobbianum Nasturtium, 6 varieties..... 1 oz. of each 75c
- 405 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



**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 the 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.



Fancy Bugnot's Exhibition.

**GIANT TRIMARDEAU VARIETIES.** A desirable and very attractive strain. The plants are of compact, robust and free-flowing habit. The flowers of immense size, measuring four inches in diameter; of good substance and unsurpassable in beauty and variety of coloring.

- 413 Adonis. Beautiful light blue, marked with a yellowish white face and large dark blotches ..... 10c pkt.; 3 pkts. 25c
- 414 Auriculæflora. Large flowers of rare shades..... 10c pkt.; 3 pkts. 25c
- 415 Bridesmaid. White shining rose, beautifully blotched..... 10c pkt.; 3 pkts. 25c
- 416 Canary Bird. Giant five spotted variety. Bright golden yellow, each petal marked with a large dark blotch. Extra fine. 15c pkt.; 2 pkts. 25c
- 417 Candidissima. Satiny white, centre slightly tinged with yellow..... 10c pkt.; 3 pkts. 25c
- 418 Emperor William. Ultramarine blue, with distinct dark blue eye..... 10c pkt.; 3 pkts. 25c
- 419 Golden Yellow. Bright yellow, Extra fine..... 10c pkt.; 3 pkts. 25c
- 420 King of the Blacks. Immense jet-black flowers..... 10c pkt.; 3 pkts. 25c
- 421 Lord Beaconsfield. Purple violet, shading to white on the upper petals..... 10c pkt.; 3 pkts. 25c
- 422 Peacock. Rich blue, margined with a white edge, and marked in the face with rosy carmine tints..... 10c pkt.; 3 pkts. 25c
- 423 Quadricolor. Reddish blue, with white and pink edges; lower petals yellow marbled with red and blue, margined with white, 10c pkt.; 3 pkts. 25c
- 424 Ruby. Brilliant shades of red..... 10c pkt.; 3 pkts. 25c
- 425 Finest Mixed. All colors, extra fine..... 10c pkt.; 3 pkts. 25c



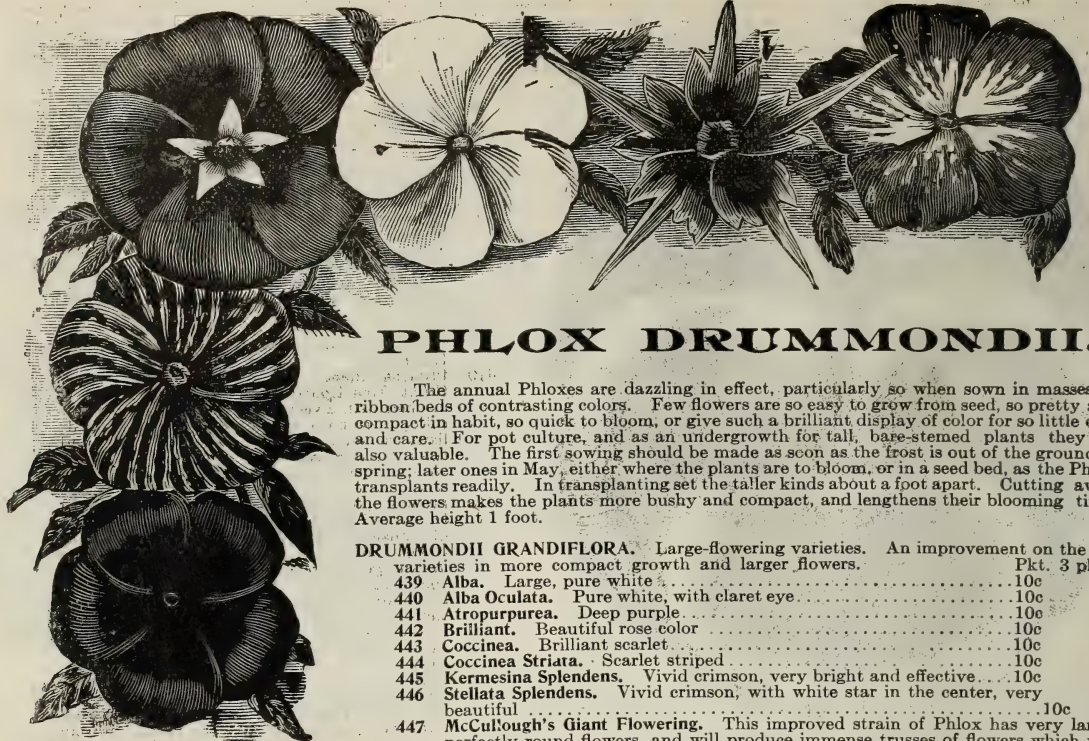
Improved Trimardeau Giant.

- 406 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
- 407 Cassier's Giant. A very showy and rich strain saved from very large and beautifully blotched model flowers ..... 15c. pkt.
- 408 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.
- 409 Mme Perret. Flowers of largest size, in great diversity of color; especially rich in red shades. Extra fine..... 20c pkt.; 3 pkts. 50c
- 410 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
- 411 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 oz. \$2.00, 25c pkt.
- 412 McCullough's Special Mixture. A superior mixture, selected from choice, large flowering strains of English, French and German growers 1oz. \$5.00; 15c pkt

No. 1. PREMIER COLLECTION. Giant Trimardeau Pansies, our selection, six varieties, one pkt. of each..... 45c  
 No. 2. PREMIER COLLECTION. Giant Trimardeau Pansies, twelve varieties, one pkt. of each..... 80c

**PANSIES IN SEPARATE COLORS.** oz. pkt.

- 426 Cardinal. Brownish-scarlet, lower petals marked with a large dark blotch..... 1 75 5c
- 427 Emperor Frederick. Rich purple; golden bronze centre; margined scarlet and yellow..... 1 25 5c
- 428 Emperor William. Brilliant ultramarine blue, with violet eye..... 1 25 5c
- 429 Golden Yellow. Golden yellow with black centre..... 1 25 5c
- 430 King of the Blacks. Rich glossy black; splendid for bedding..... 1 25 5c
- 431 Lord Beaconsfield. Purple violet, shading to white on the upper petals..... 1 25 5c
- 432 President Carnot. White petals marked with violet blotch. Extra fine..... 2 00 10c
- 433 Quadricolor. Reddish steel blue with a white and pink edge, marked with a golden and pink face..... 1 25 5c
- 434 Snowflake. Large satin white, centre slightly tinged with yellow..... 1 25 5c
- 435 Striped. Brilliant and exquisite tints in coloring; the blooms handsomely striped..... 25 5c
- 436 Victoria. Rich velvet like petals of a bright wine or blood red color..... 1 50 5c
- 437 Superior Quality Mixed. A splendid strain of large-flowering sorts..... 1 50 10c
- 438 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



**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.
- 439 Alba. Large, pure white . . . . . 10c 25c
  - 440 Alba Oculata. Pure white, with claret eye . . . . . 10c 25c
  - 441 Atropurpurea. Deep purple . . . . . 10c 25c
  - 442 Brilliant. Beautiful rose color . . . . . 10c 25c
  - 443 Coccinea. Brilliant scarlet . . . . . 10c 25c
  - 444 Coccinea Striata. Scarlet striped . . . . . 10c 25c
  - 445 Kermesina Splendens. Vivid crimson, very bright and effective. . . . . 10c 25c
  - 446 Stellata Splendens. Vivid crimson, with white star in the center, very beautiful . . . . . 10c 25c
  - 447 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—Eight varieties. 1 pkt. of each 40c

- 448 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.

- 449 Fireball. Brilliant scarlet . . . . . 10c pkt.; 3 pkts. 25c
- 450 Snowball. Pure white, excellent variety . . . . . 10c pkt.; 3 pkts. 25c
- 451 Finest Mixed. All colors . . . . . 10c pkt.; 3 pkts. 25c
- 452 Phlox Cuspidata (Star of Quedlinburg) Finest Mixed. Beautiful star-shaped flowers in showy colors . . . \$1.00 oz.; 10c pkt.; 3 pkts. 25c
- 453 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. Pkt.

- 454 Alba. Double white; very fine for bouquets and florists use. . . . . 10c
- 455 Atropurpurea. Double, blood red . . . . . 10c
- 456 Phlox Perennial Hybrids. (Phlox Decussata.) Tall growing perfectly hardy class, with immense trusses of large and beautiful flowers, in the greatest variety 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.**

- 457 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
- 458 Giants of California. Flowers very large, in great variety of colors and markings, with broad, deep yellow throats, veined . . . . . 15c pkt.; 2 pkts. 25c . . .



Petunia, McCullough's Mammoth.

- 459 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.
- 460 Grandiflora, Finest Mixed. Superb strain from show flowers, very large and of great substance . . . . . 15c pkt.; 2 pkts. 25c

**PETUNIAS.**—(Continued.)

**SINGLE SMALL-FLOWERED VARIETIES.**

		Oz.	Pk.
341	<b>Dwarf Inimitable.</b> Compact-growing variety, flowers cherry-red, striped with white .....	\$3.00	10c
342	<b>Snowball.</b> A fine compact variety, producing its pure white flowers throughout the entire season. Excellent for pots or bedding ..	3 00	10c
343	<b>Alba.</b> Pure white large flowers, desirable for cemetery beds or where large masses of white are wanted. ....	1 25	5c
344	<b>Kermesina Splendens.</b> Rich crimson, fine .....	1 25	5c
345	<b>Howard's Star.</b> 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
346	<b>Striped and Blotched.</b> Fine for massing .....	1 25	5c
347	<b>Finest Mixed.</b> Superb strain, very rich colors .....	1 50	10c
348	<b>Fine Mixed.</b> Very fine quality .....	75	5c

**DOUBLE LARGE-FLOWERING SORTS.**

349	<b>McCullough's Splendid Fringed.</b> 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
3470	<b>Grandiflora Mixed.</b> Choice strains of fine colors and large flowers .....		25c

**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 advance 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.
471	<b>American Flag.</b> Large double flowers, white, bordered with scarlet. 2 feet .....	oz. 25c, 5c
472	<b>Cardinal Hybrids.</b> Habit erect and compact, with deeply-cut dark green foliage, which shows off the enormous double flowers. Finest mixed. 1½ foot .....	oz. 25c, 5c
473	<b>Carnation-Flowered.</b> Large showy fringed flowers; mixed colors .....	oz. 20c, 5c
474	<b>Fairy Blush.</b> Flowers large, white, elegantly fringed and tipped with rose .....	oz. 25c, 5c
475	<b>Golden Gate.</b> Free-flowering variety of semi-double and double flowers in the greatest variety of color .....	5c
476	<b>Irresistible.</b> A splendid giant Poppy, resembling a poony. Color light red, shaded lighter at edge of petals .....	5c
477	<b>Mikado.</b> The flowers are pure white at back, the fringed edges brilliant scarlet .....	oz. 25c, 5c
478	<b>Poony-Flowered.</b> Large showy globular flowers; finest mixed .....	oz. 20c, 5c
479	<b>Poony-Flowered Scarlet.</b> Fine large scarlet flowers .....	oz. 20c, 5c
480	<b>White Swan.</b> Immense flowers, beautifully fringed; pure white .....	oz. 25c, 5c
481	<b>Double Mixed.</b> All colors, mixed .....	oz. 20c, 5c

**SINGLE ANNUAL VARIETIES.**

		Pkt.
482	<b>Danebrog.</b> Large bright scarlet, with a white cross in the center .....	oz. 20c, 5c
483	<b>Maid of the Mist.</b> A magnificent single white poppy. The flowers measure from 7 to 9 inches across and are deeply fringed .....	5c
484	<b>Peacock.</b> Large scarlet, with a glossy black zone near the center .....	oz. 25c, 5c
485	<b>Shirley.</b> A beautiful strain; the flowers are all gracefully elegant, and the colors remarkably bright, pure and varied .....	oz. 50c, 5c
486	<b>The Bride.</b> The flowers are of extra large size, pure white, making a fine appearance in beds or groups .....	oz. 25c, 5c
487	<b>Tulip.</b> A magnificent variety. The plants grow about 14 inches high, each plant producing 150 to 60 vivid scarlet flowers. The two outer petals form a saucer, surrounding two erect petals, giving the very handsome appearance of scarlet Tulips .....	oz. 60c, 5c
488	<b>Umbrosun.</b> Richest vermilion, with a deep shining black spot on each petal .....	oz. 25c, 5c
489	<b>Single Mixed.</b> All colors .....	oz. 20c, 5c

**HARDY PERENNIAL VARIETIES.**

490	<b>Iceland.</b> (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
491	<b>Oriental.</b> Very large, scarlet, with blotch on each petal; magnificent, border plant. 3 feet .....	5c
492	<b>Oriental Hybrids.</b> 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. ....	3 pkts. 25c, 10c



Double Hybrid Petunia.



Tulip Poppy.



Shirley Poppy.

- PASSIFLORA.** (Passion Flower.) Indispensable climbing plants for garden or greenhouse, bearing a profusion of attractive flowers, Hardy climbers. Protect by mulching.
- 493 **Finest Mixed Colors.** ..... 10c pkt.; 3 pkts. 25c
- PENTSTEMON.** One of our most beautiful and attractive herbaceous plants, bearing long, graceful spikes of rich-colored flowers; will bloom the first season if sown early in March and planted out in May, Half-hardy perennials. 2 feet
- 494 **Hybridus Grandiflorus.** Large flowered, newest varieties. .... 10c pkt.; 3 pkts. 25c
- 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.
- 495 **Single Finest Mixed.** Large flowering sorts in splendid colors. .... oz. 40c; pkt. 5c
- 496 **Double Finest Mixed.** Superb large double flowers in great variety. .... 1/4 oz. 75c; pkt. 10c

**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-mould. They require to be well ventilated, well watered and slightly shaded throughout the summer.

**PRIMULA CHINENSIS FIMBRIATA.**

- |  |                       |
|--|-----------------------|
|  | Pkt.                  |
| 497 <b>Alba Magnifica.</b> The finest pure white, with bright yellow eye, beautifully fringed. ....  | 20c                   |
| 498 <b>Chiswick Red.</b> Large brilliant scarlet, finely fringed. ....   | 20c                   |
| 499 <b>Cœrulea.</b> Fine blue; excellent. ....   | 20c                   |
| 500 <b>Delicata.</b> Delicate rose; finely fringed. ....   | 20c                   |
| 501 <b>Choicest Mixed.</b> This mixture contains nothing but the finest sorts. ....  | 20c                   |
| 502 <b>Primula Forbesi.</b> (Baby Primrose.) Very free-flowering, beautiful rosy lilac flowers. Fine for pots and bouquets. Seedlings begin to bloom three months after being sown. ....   | 20c                   |
| 503 <b>Primula Obconica Grandiflora Hybrida.</b> Improved, large flowered, varying in color from white to bright rose and violet; a splendid pot plant. ....   | 3 pkts 25c, 10c       |
| 504 <b>Primula Obconica Grandiflora Fimbriata.</b> 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. .... | 15c pkt.; 2 pkts. 25c |



**Primula Chinensis Fimbriata.**

- HARDY PRIMROSES.** The following varieties are delightful for early flowers under glass, or in the open air, with protection during winter. Half-hardy
- 505 **Auricula.** Finest mixed. Extra choice; saved from a prize collection. .... 10c pkt.; 3 pkts. 25c
- 506 **Veris** (Polyanthus.) Splendid colors; extra fine. .... 19c pkt.; 3 pkts. 25c
- 507 **Vulgaris.** True Yellow English Primrose. .... 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 to be maintained.

- PYRETHRUM.** Valuable hardy border plants, throwing up numerous stems about 2 feet high; remain in bloom a long time. Hardy perennial.
- 508 **Single Hybrids.** Large flowers, choicest colors, saved from named varieties. Finest mixed. .... 10c pkt.; 3 pkts. 25c
- 509 **Double Hybrids.** Large flowers, choicest colors, saved named varieties. Finest mixed. .... 15c pkt.; 2 pkts. 25c
- 510 **Aureum.** Bright yellow foliage, extensively used for ribbon and carpet bedding. 1/3 ft. .... 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.
- 511 **Maculata.** Mixed; all colors. .... 5c pkt.

- RICINUS.** Known as "Caster Oil Plant" and "Palma Christa." 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.
- 512 **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
- 513 **Gibsonii.** Dark stems and foliage. 10 feet. .... oz. 15c; 5c
- 514 **Gibsonii Mirabilis.** Dwarf, branching habit, deep red foliage. 4 feet ..... oz. 20c; 5c
- 515 **Philippinensis.** Large beautiful dark foliage, 10 feet. .... oz. 15c; 5c
- 516 **Sanguinens.** Blood-red stalks, and clusters of red fruit, 8 ft. oz. 15c; 5c
- 517 **Zanzibariensis.** An entirely new and distinct class of these handsome ornamental plants, 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
- 518 **Finest Mixed.** All varieties. .... oz. 15c; 5c
- Premier Collection Ricinus.** Six varieties. One packet of each. .... 20c



**Ricinus Zanzibariensis.**

- ROCKET.** (Hesperis.) Fragrant, free-flowering hardy perennial, blooming in the spring and growing freely in ordinary soil. 1 1/2 feet.
- 519 **Finest Mixed.** All colors. .... oz. 40c; 5c

The J. M. McCullough's Sons Co., Cincinnati, Ohio: Gentlemen—The seed I received from you this Spring was fine in every respect. The Buckeye State Tomato was the best I ever raised. I sold more than 150 bushels off of one-fourth acre, and at least 40 bushels was destroyed by frost in the patch. The Dwarf Stone was fine and as large as the Standard Stone, and very productive. Your Cabbage seed gave me a fine yield. The Onion seed grew and gave a fine crop. Everything came quickly and grew fine. Respectfully, W. F. WARD.

Guilford, Ind., October 24, 1905.

**RUDEBECKIA.** (Cone Flower.) A showy class of strong, easily cultivated plants. 1½ feet.

520 **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

**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.

521 **Large Flowering Mixed.** A splendid variety of colors, flowers large size .....oz. 75c; pkt. 5c

522 **Emperor.** This variety forms only one leading stem, and bears on its summit a bouquet of beautiful flowers, each one richly veined with gold, and much larger than the finest of the "Grandiflora" type. 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.

523 **Splendens.** One of the finest summer and fall plants, with magnificent, brilliant scarlet flowers. 2 feet. ....¼ oz. 50c; 5c pkt.

524 **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.

525 **Splendens Triumph.** Extra early flowering, rich velvety scarlet. The finest and largest of all. ....15c pkt.; 2 pkts. 25c

526 **Splendens Silver Spot.** The leaves are dark green, with cream-colored spots of various sizes sprinkled over them. The unique and elegant foliage has an extremely fresh and healthy appearance. The bright scarlet flowers are large and the plants of neat compact habit. A charming variety of great effect. .... 10c pkt.; 3 pkts. 25c

**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.

527 **Black Purple.** Very large double flowers. ....5c

528 **Golden Yellow.** Pure golden yellow, double flowers. ....5c

529 **Snowball.** Elegant double white, fine for bouquets. 2 ft. ....oz. 60c; 5c

530 **Finest Mixed.** Large double flowers in choice variety of colors. ....oz. 30c; 5c

531 **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

532 **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

**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.

**GIANT PERFECTION TEN WEEK STOCK.** This magnificent strain is without a rival for open-ground planting, attaining a height of 2½ feet. The spikes of bloom are long, and the individual flowers are enormous in size and very double.

533 **Light Blue** .....10c pkt.; 3 pkts. 25c

534 **Rose** .....10c pkt.; 3 pkts. 25c

535 **Scarlet** .....10c pkt.; 3 pkts. 25c

536 **White** .....10c pkt.; 3 pkts. 25c

537 **Finest Mixed.** All colors. ....10c pkt.; 3 pkts. 25c

538 **Dwarf German Mixed.** All colors. ....5c pkt.

539 **McCullough's Cincinnati Market.** A fine pereptual blooming stock, producing one long sturdy spike closely set with enormous double flowers. A grand variety; good forcer. 10c pkt.; 3 pkts. 25c

540 **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

**BIENNIAL STOCK.** This class should be sown before July, and protected during the winter; or better yet, to be kept over in cold frames and planted out in the spring; they will then begin to flower in May, and continue through the season.

541 **Brompton, Finest Mixed.** Large flowering double. 10c pkt.; 3 pkts. 25c

**SNOW-ON-THE-MOUNTAIN.** (See Euphorbia.)



Salvia Splendens.



Scabiosa.



Stock Giant Perfection.

Parkersburg, W. Va., September 26, 1905.

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,

GEO. H. GORDON.

**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, in hot-bed or greenhouse, in February, and keep in a moist place. Tender perennial climber; white 10 feet.

542 *Myrsiphyllum*. (Boston Smilax.) . . . . . oz. 60c. 5c pkt.

**SOLANUM.** Very ornamental pot plants for house or garden culture, the flowers being followed with small, brightly colored fruit or berries, which almost completely cover the plants. Tender perennial; flowering and fruiting the first season from seed.

543 *Capsicastrum Nanum*. Small red berries; extensively grown by florists 10c pkt.

544 **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.

545 *Auricula Eyed Perfection*. Splendid variety of colors with clearly defined eye . . . . . oz. 50c, 5c pkt.

546 *Single, Finest Mixed*. Choice colors . . . . . oz. 25c, 5c pkt.

547 *Double Extra Large, Finest Mixed*. Very large flowers . . . 10c pkt. 3 pkts. 25c



Sweet William.

## 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 principal 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 cool, 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.

548 *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.; 10c oz.; 25c 1/4 lb. 75c lb.

549 *Finest Mixed*. This is a mixture of many distinct named varieties . . . . . 5c oz.; 15c 1/4 lb., 50c lb.

550 *Fine Mixed*. A very good mixture of over twenty varieties . . . . . 15c 1/4 lb.; 40c lb.



## McCullough's Select List Large-Flowering Named Varieties.

The Following Named Varieties Sweet Peas 5c pkt: 10c oz., 25c 1/4-lb., 75c lb.

551 *America*. Crimson scarlet, striped on white. Large size open form; brightest striped variety.

552 *Aurora*. Standard and wings white, shaded and striped with orange salmon.

553 *Blanche Burpee*. Largest pure white, of exquisite form.

554 *Blanche Ferry, Extra Early*. Rose pink standard, with white wings; very early.

555 *Captivation*. Standard and wings magenta. Medium sized flower, open form.

556 *Coccineo*. Cerise red, self color, very bright and effective; medium size, semi-hooded form.

557 *Coquette*. Standard light violet, shading to primrose; wings creamy primrose.

558 *Countess of Cadogan*. Standard opens purple and changes to blue; wings blue shading lighter at edges.

559 *Crown Jewel*. Standard violet and rose pink blended; wings light primrose; large flower.

560 *Dorothy Eckford*. The finest pure white; giant flower, also robust in growth and stem. The plant is very short jointed, and grows an enormous mass of bloom.

561 *Dorothy Tennant*. Rosy mauve, deepening as the flowers age; large size.

562 *Duke of Sutherland*. Standard purplish maroon; wings bright indigo blue; large size.

563 *Earliest of All*. Rose pink standard, with white wings; excellent for forcing.

564 *Emily Henderson*. Pure white, large bold flowers; blooms early and profusely.

565 *Flora Norton*. Pure bright self blue; quite distinct and a great acquisition.

566 *Golden Rose*. Primrose, striped, and mottled with pink. Large semi-hooded form of the finest type.

567 *Gray Friar*. Marbled or watered purple on white, pretty light shade, large flower.

568 *Hon. F. Bouverie*. Standard coral pink; wings lighter pink; a charming flower of grand shape and substance.

569 *Jeanie Gordon*. Standard bright rose shaded cream; wings creamy suffused rose.

570 *Katherine Tracy*. Bright pink; a large, bold, perfect flower, of great substance.

571 *King Edward VII.* 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.

572 *Lady Grisel Hamilton*. Beautiful pale lavender; in form it is of the most advanced giant flowering type.

573 *Lady Mary Currie*. Bright orange pink; very bright and showy; extra fine.



# SWEET PEAS.

LARGE FLOWERING NAMED VARIETIES—Continued.

Named Varieties Sweet Peas 5c Pkt.; 10c Oz.; 25c ½lb.; 75c lb.

- 574 **Lady M. Ormsby Gore.** Standard buff and primrose, wings light primrose; large size, hooded form.
- 575 **Lord Rosberry.** Rose Carmine, showing veins of deeper rose. Large hooded flowers, borne on long stems.
- 576 **Lovely.** Standard and Wings deep rose at base, shading to pale pink and blush at edges. Large size.
- 577 **Lottie Eckford.** White ground, shaded and edged with light blue and mauve. Large size.
- 578 **Lottie Hutchins.** Creamy white, delicately striped and flaked with carmine blush.
- 579 **Maid of Honor.** Light blue on a white ground, shaded and edged; fine hooded form.
- 580 **Majestic.** Standard and Wings deep rose pink; flowers largest size and perfect form; slightly hooded.
- 581 **Miss Wilmott.** Standard orange pink. Wings rose tinted orange. Flowers very large; stems long and plant very vigorous.
- 582 **Modesty.** Delicate blush pink, almost white; flowers large size and perfect form.
- 583 **Mont Blanc.** Pure white; large, well expanded flower; extra early; good forcer.
- 584 **Mrs. Dugdale.** Standard rose, shaded primrose; wings primrose, shaded light rose; very large and finely expanded.
- 585 **Mrs. E. Kenyon.** A beautiful primrose color; a bold giant flower, and a most desirable variety.
- 586 **Mrs. Geo. Higginson, Jr.** A clear, delicate light blue, showing no tint of mauve. Fine variety for florists.
- 587 **Navy Blue.** Standard indigo. Wings indigo shaded to navy blue. Large size, semi-hooded form.
- 588 **Othello.** Standard and Wings dark maroon, showing veins of black. Large size; hooded form.
- 589 **Prima Donna.** Bright blush pink; large size and fine form; one of the best; vigorous grower.
- 590 **Prince of Wales.** Bright rose; large flower; the prettiest of the bright red varieties.
- 591 **Ramona.** White, delicately striped, and flaked with pale pink; large flower.
- 592 **Royal Rose.** Standard deep rose shading with pink; wings tight pink; very large flower.
- 593 **Salopian.** Rich crimson scarlet; large flowers of fine form; the best scarlet.
- 594 **Shazada.** Standard deep maroon; wings indigo blue, blossoms large and well formed.
- 595 **Stella Morse.** Primrose yellow, tinged with blush pink; well formed graceful flowers.
- 596 **Venus.** Lovely salmon buff, shaded rose pink.

All Named Varieties 5c pkt., 10c Oz., 25c ½lb., 75c lb.

## COLLECTIONS SWEET PEAS.

To induce our customers to give our New Large Flowering Sweet Peas a trial, we offer the following special collections. The varieties offered are the very best of the new large Flowering Sorts.

No. 1.	6 pkts. new large flowering varieties .....	Special price	20c
No. 2.	12 pkts. new large flowering varieties.....	"	35c
No. 3.	6—1 oz. pkts. new large flowering varieties .....	"	40c
No. 4.	12—1 oz. pkts. new large flowering varieties .....	"	75c

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.

**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.

597 **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.

598 **Fournieri.** Porcelain blue and rich violet, throat bright yellow; free flowering. 6 inches.....10c pkt; 3 pkts. 25c

599 **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 for you constantly from June until frost. The lavish and showy display of flowers in a Verbena bed is one of the most attractive.

600 **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

601 **Auriculæflora.** Various shades, all with distinct eye of white or rose. 10c pkt.; 3 pkts. 25c

602 **Defiance.** Brilliant scarlet, fine for bedding.....10c pkt.; 3 pkts. 25c

603 **Candidissima.** Large trusses of pure white flowers.....10c pkt, 3 pkts. 25c

604 **Blue.** Bright blue, in various shades. 10c pkt.; 3 pkts. 25c

605 **Italian Striped.** Beautiful. 10c pkt.; 3 pkts. 25c

606 **Pink.** Bright shades of pink; fine. 10c pkt.; 3 pkts. 25c

607 **Extra Choice Mixed.** Embraces all colors.....oz. \$1.00; pkt. 5c

608 **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

McCullough's Premier Collection

Mammoth Verbenas, Six varieties.

One packet of each.....40c

607 **Extra Choice Mixed.** Embraces all colors.....oz. \$1.00; pkt. 5c

608 **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

609 **Alba Pura.** Beautiful, pure white.....10c pkt.; 3 pkts. 25c

610 **Rosea.** Rose, with dark eye.....10c pkt.; 3 pkts. 25c

611 **Rosea Alba.** White with crimson eye.....10c pkt.; 3 pkts. 25c

612 **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.

613 **Oborata, The Czar.** Large violet fragrant.....10c pkt.; 3 pkts. 25c

614 **Odorata, White Czar.** Large white, fragrant.....10c pkt.; 3 pkts. 25c

615 **Finest Mixed.** All varieties, mixed.....10c pkt.; 3 pkts. 25c



Thunbergia.



Verbena Mammoth.



Vinca Rosea.

**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.

609 **Alba Pura.** Beautiful, pure white.....10c pkt.; 3 pkts. 25c

610 **Rosea.** Rose, with dark eye.....10c pkt.; 3 pkts. 25c

611 **Rosea Alba.** White with crimson eye.....10c pkt.; 3 pkts. 25c

612 **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.

613 **Oborata, The Czar.** Large violet fragrant.....10c pkt.; 3 pkts. 25c

614 **Odorata, White Czar.** Large white, fragrant.....10c pkt.; 3 pkts. 25c

615 **Finest Mixed.** All varieties, mixed.....10c pkt.; 3 pkts. 25c

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.

Respectfully yours,

Krise, W. Va., September 17, 1905.

ALEX BENNETT.





Mammoth Flowering Zinnia.

**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.

- 616 Double, Finest Mixed ..... 10c pkt. 3 pkts. 25c
- 617 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.

- 618 Finest, Mixed Double. All colors ..... 5c pkt.

**ZEA.** (Maize.) Plants with beautiful striped ornamental foliage. Hardy annual, 5 feet.

- 619 Japonica Gigantea. Beautifully striped, very fine. .... 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.

- 620 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.
- 621 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
- 622 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.
- 623 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.**

- 624 Bright Rose .Oz. 75c, 5c pkt. | 626 White .Oz. 75c, 5c pkt.
- 625 Scarlet .Oz. 75c, 5c pkt. | 627 Yellow .Oz. 75c, 5c pkt.
- 628 Finest Mixcd, all colors ..... Oz. 50c, 5c pkt.

McCullough's Premier Collection Large Flowering Zinnias, 4 pkts. 1 pkt. of each 15c

## 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.

## 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.  
20c each; \$2.00 per doz.

**Johnsonii.** Crimson, striped with white, very fine. 25c each; \$2.50 per doz

**Formosissima.** Rich, velvety crimson, fine. . . . . 10c each; \$1.00 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 will bloom continuously throughout the summer.

**Single, Scarlet, Crimson, Pink, White and Yellow.**

In Separate colors . . . . . 12c each; \$1.25 per doz.

**Single Varieties.** Mixed colors . . . . . 10c each; \$1.00 per doz.

**Double Varieties.** Mixed colors . . . . . 20c each; \$2.00 per doz.



Single Tuberous-Rooted Begonias.

## FANCY-LEAVED CALADIUMS:

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.

**Aquideban.** Light green ground, pink center with crimson ribs.

**Beija Flor.** Dark rose center, margin bright green, red veins.

**Dans De Decembro.** Greenish white, spotted with pale rose and green, narrow crimson ribs.

**Dr. Augusta De Castro.** Green ground spotted and splashed white, suffused pink; deep red ribs.

**Favella.** Light center, with yellow green zone, ribs fiery red.

**Louis Poirier.** Red center bordered green, with white spots.

**Mme Heine.** Silvery white, stained on edge with pale green.

**Pelotas.** Green with red center and numerous pink spots.

**Refulgens.** Green margin, broad red center and darker ribs.

**Rio Claro.** Rose center, ribs carmine, border, decorated with narrow white pearly.

**Rio de Janeiro.** Rose center, green border, spotted rose.

**Vetter.** Large red leaf.

20 Cents Each; \$2.00 per Dozen.



Fancy-Leaved Caladiums.

## 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 good 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

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

Joy, Ky., Nov, 1, 1905.

Dear Sirs—For several years I have purchased Flower and Garden Seeds from your firm. They have always been of good quality and gave the best satisfaction. The varieties of Garden Seed recommended for market gardeners' use, I found could not be surpassed in quality or flavor. I also found that the packets contained more seed than are usually sold by other firms.

Wishing you a successful year, I am,

Most truly,

FLORENCE W. SENOUR.



Caladium Esculentum.

# Summer Flowering Bulbs and Roots—Continued.

- SPOTTED CALLA.** (*Richardia Alba Maculata*.) Leaves deep green, with many white spots. Flowers pure white, with black center. Culture easy; blooms freely. . . . . 10c each; \$1.00 doz
- BLACK CALLA.** (*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 doz
- CHILDANTHUS FRAGRANS.** A South American bulbous plant that bears very fragrant and pretty bright yellow flowers of open star-like form with long tubes. The flowers are carried in upright clusters on stems 12 to 16 inches high. The bulbs may be planted in the garden in spring; they will then flower during the summer and should be taken up in the fall and stored away like *Gladiolus* bulbs, or they may be flowered in pots if desired. . . . . 10c each; \$1.00 doz
- COOPERIA DRUMMONDII.** Planted out in the garden in the spring, a clump of 12 to 25 or more, 4 to 6 inches apart, will bloom successively from May to September; the flowers are star-shaped, with long tubes, pure white and exquisitely fragrant with the odor of primroses. . . . . 6c each; 60c 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 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.

- Alphonse Bouvier.** Deep rich, velvety crimson; strong grower, green foliage. 6 feet.
- Alsace.** Sulphur yellow, changing to creamy white without spots; vigorous grower; green foliage. 4 feet.
- Austria.** Pure canary yellow, with reddish brown dots in the center of the two inside petals. Large open flowers. 6 feet.
- Beaute Politevine.** An excellent free-flowering crimson that is especially valuable in a hot, dry season, succeeding better under these conditions than any other variety. 3 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.
- Crimson Bedder.** Intense crimson scarlet; compact, dwarf with large trusses of flowers. 3½ feet.
- Egandale.** A fine dark foliage variety, with flowers currant red; very distinct and striking appearance. 4 feet.
- Florence Vaughan.** Rich golden yellow, spotted bright red. 4 feet.
- Gloriosa.** Rich crimson, with wide border of deep golden yellow. One of the most showy varieties. 3 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.



Crozy's Cannas.

- Kate Gray.** Rich orange scarlet, overlaid with gold; flowers large, with immense trusses; foliage bright glossy green; one of the best. 6 feet.
- Mlle Berat.** A soft shade of rosy carmine. The petals are long and hang gracefully upon the flower stalk. A bed of this variety is simply superb, a solid mass of pink; foliage green. 5 feet.
- Martha Washington.** Bright rose; flowers large, with immense trusses; very beautiful and attractive, a constant and abundant bloomer. 3 feet.
- Paul Marquant.** Large, handsome flowers of a bright salmon, shading to rosy carmine. Foliage dark green. 4 feet.
- Queen Charlotte.** Rich scarlet with a wide, bright gold band around each petal large flowers, green foliage. 3 feet.
- West Virginia.** Intense crimson scarlet, with broad golden yellow border; foliage green; 3 feet.

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 dozen.

- Black Beauty.** Large massive foliage of the richest bronzy 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. . . . . 10c each; \$1.00 per doz.
- Musafolia.** Large dark green Musa like foliage, the edge of the leaves banded with bronzy 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 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; \$1.00 per doz.
- Tall Cannas, Finest Mixed.** . . . . . 8c each; 75c per doz.
- Strong plants ready about May 1st. . . . . 20c each; \$2.00 per doz.

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

Lebanon, O.; November 1, 1905.

Dear Sirs—I have bought Bulbs from you for a number of years, and it gives me great pleasure to testify to the honorable way you have always treated me. I have found your stock true to name and of the best quality, and your prices, packing and promptness in filling orders is excelled by none.

Respectfully,

DORA H. GREATHOUSE.

Jonesboro, Ark., January 2, 1906.

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

Gentlemen—The seeds we received from you last spring gave entire satisfaction. We always use McCullough's seeds. We ordered our seeds from you when we were in Indiana, and since we have moved here I think we will use your seeds, as we are satisfied there are none better.

Respectfully,

WM. DOUGLAS.

# 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.
- Blue Oban.** One of the finest decorative dahlias, early and extremely profuse bloomer, large size, lilac shaded blue.
- Catherine Duer.** Bright crimson scarlet. A strong growing free flowering variety.
- 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.) Blood red, color, free flowering, one of the best.
- Gabriel.** (Cactus.) An exquisitely shaped flower, long, incurved, twisted petals; color combination of scarlet and cinnamon shades, sometimes tipped white.
- General Buller.** (Cactus.) Dark crimson shaded velvety maroon; each petal tipped white, rich and striking; an early and profuse bloomer.
- 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.
- Kreimhilde.** (Cactus.) Large size, free bloomer and the best of all for cut-flowers on account of its long keeping qualities; color, bright pink, tinting lighter toward the center petals.
- Mrs. J. P. Clark.** (Cactus.) Very large fine flower, with long, twisted, incurved petals, salmon shaded pink, tipped white.
- Nymphaea.** 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 forms.
- Standard Bearer.** (Cactus.) Intense cardinal-red, with long twisted petals early and profuse bloomer.
- Sylvia.** Beautiful clear pink, tinting lighter toward the center, especially fine for cut-flowers.
- Volker.** (Cactus.) Pure canary yellow, beautiful form, an early and profuse bloomer.
- Wm. Agnew.** Intense glistening scarlet crimson; immense size, perfect form; free flower. 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.
- Catherine (Pompon.)** The best pure yellow; of fine form, full to the center, and borne on long stems.
- Little Beauty.** (Pompon.) Delicate shrimp pink, of full round form and beautifully quilled petals; long stems; especially adapted for bouquets.
- Snowclad.** (Pompon.) The finest white, with long stems.
- Sunshine.** (Pompon.) Brilliant scarlet; fine form, full centers, long stems; largely used for cutting.

Above-Named Varieties, 15 Cents Each. \$1.50 Dozen.

Double Varieties.	Mixed	.....	10c each; \$1.00 doz.
Double Pompon.	"	.....	10c each; \$1.00 doz.
Single Varieties.	"	.....	10c each; \$1.00 doz.
Cactus Varieties.	"	.....	10c each; \$1.00 doz.

## GLOXINIA.

Magnificent for house culture, producing in great profusion beautiful flowers of the 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.

## 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 blossom. 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 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.

## MONTBRETIA.

One of the best and brightest summer-flowering bulbs, sure of becoming firm favorites wherever grown. Planted in clumps from April to June, they produce numerous graceful spikes of brilliant star-shaped flowers. Hardy with protection. Finest mixed. 3c each, 30c doz., \$2.25 per 100.



Double Dahlias.



ISMENE CALATHINA.  
C. SPORRENBERG, A. BLAND

Cynthiana, Ky., September 22, 1905.

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

Gents—The Sweet Peas purchased from you and used in the private garden the past season were certainly the most satisfactory we have ever had. They furnished us bloom in abundance as long as we kept them out. The colors were very fine, delicate and pleasing.

Respectfully yours,

J. A. THORNE,  
Superintendent Battle Grove Cemetery.

# 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 frost, for planting again the following spring.

**Augusta.** Lovely pure white, with blue anthers.

**Ben Hur.** Salmon rose, tinged, flaked and mottled with blue; throat beautifully mottled and spotted.

**Bowdoin.** Orange scarlet, with large pure white throat.

**Dr. Sewell.** Rosy crimson, slightly pencilled darker; center of petals and throat rayed white.

**Eugene Scribe.** Rose, blazed carmine-red; flowers very large.

**Issac Buchanan.** Pure yellow; a beautiful flower.

**Lafayette.** Yellowish salmon, crimson blotches; very large.

**Marginata.** Salmon, with crimson and white throat; each petal having a delicate margin of slate blue.

**May.** White, flaked bright crimson, superb spike.

**Mrs. Beecher.** Rosy crimson, pure white throat, freely marked and spotted.

**Shakespeare.** White, suffused with carmine-rose; large rosy blotch.

**Torchlight.** Scarlet, throat mottled and spotted white and violet.

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

**New Giant.** A magnificent new race of extraordinary size and remarkable beauty. These new varieties are twice the size of the Gladiolus Gandavensis varieties, while possessing their long-lasting properties, and the beautiful marking of the Lemoine section. Mixed varieties . . . . . 4c each, 35c doz., \$3.00 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, keep 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.

<b>Tigridia, Conchiflora.</b> Yellow, spotted red. . . . .	.6c each,	60c per doz.
" <b>Grandiflora Alba.</b> White crimson spots. . . . .	.6c each,	60c per doz.
" <b>Speciosa.</b> Deep red, spotted purple. . . . .	.6c each,	60c per doz.
" <b>California Hybrids, Mixed.</b> (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 purchase 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.

Columbia, S. C. September 13, 1905.

# LILIES.

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.



Lillium Auratum.

**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 . . . . . 25c each, \$2.50 per dozen. Large bulbs . . . . . 15c each, \$1.50 per doz.

**Canadense.** One of our hardy native sorts, and bears a graceful stem of drooping bell-shaped yellow and red flowers. 10c each, \$1.00 dozen.

**Lanciflorum.** 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.

**Philippinensis.** A beautiful lily, an improvement on Liliun Harrisii, the flowers being larger and longer, snowy white in color, and delicate fragrance. It is perfectly hardy in the open ground, and a superb garden bulb. Also a first-class variety for pot culture. The bulbs, after blooming, remain dormant only a short time, when there is new growth and more flowers, often as many as three blooming periods a year . . . 35c each, \$4.00 per doz.

**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. 25c each, \$2.50 doz.  
 “ **Rubrum.** White, heavily spotted with rich crimson, fragrant . . . . . 15c each, \$1.50 doz.

**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 doz.

**Tenoufolium.** 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 per 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 . . . . . 10c each, \$1.00 doz.



Tuberosa Excelsior Pearl.

# 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 Tuberosa. 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 Tuberosa 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 Tuberosa . . . . . 4c each, 35c per doz.

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.

Very truly yours,

Washington, Pa., November 1st, 1905.

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.** 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

Dry Bulbs or Trunks weighing from 2 lbs. to 10 lbs. each. 20c per lb., ready in spring.

**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 . . . . . \$1.00 to \$7.50

**KENTIA FOSTERIANA.** Similar to Belmorian, with stronger growth and broader, heavier foliage. . . . . \$1.00 to \$5.00

**LATANIA BORBONICA.** (Chinese Fan Palm) A very popular and hardy variety . . . . . \$1.00 to \$7.50



Areca Lutescens.



Kentia Belmorian.

**LIVISTONIA ROTUNDFOLIA.** One of the prettiest Palms, especially suited for table decoration. The foliage is gracefully recurved, forming an almost globular plant. . . . . \$1.50 to \$5.00

## FERNS.

**ADIANTUM CUNEATUM.** The popular Maiden Hair Fern . . . . . 50c to \$1.00

**ADIANTUM FARLEYENSE.** This is the finest of all the Maiden Hair varieties, 50c to \$2.00

**NEPHROLEPIS BOSTONIENSIS.** (Boston Fern.) The fronds arch and drop 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 PIERSONII.** (Pierson Fern.) A new form of the Boston Fern, having luxuriant fronds, graceful feathery and plume-like. . . . . 50 to \$5.00

**NEPHROLEPIS ELEGANTISSIMA.** Sport from the Pierson Fern, in which the plume form is more distinctly developed than in the original, the side pinnae being again subdivided and standing at right angles to the midrib, makes both sides of the frond equally beautiful, the plant is of more compact habit, growing only one-half as tall, but with the fronds nearly twice as wide, making it more desirable for all purposes. . . . . 50c 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, while another important point in its favor is the fact that not a single frond has ever reverted to the common Boston Fern 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

**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 \$7.50 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

**CLERODENDRON BALFOURI.** A rapid-growing climber of great beauty. It can also be trained in bush form. A very profuse bloomer; its bright scarlet flowers are enveloped in a creamy calyx. . . . . 25c to \$1.00

**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 INDIVISA.** It stands full exposure to the sun. Its long, narrow, graceful foliage contrasts beautifully with other foliage and flowering plants. . . . . 25c to \$2.00

**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

**PANDANUS UTILIS.** (Screw Pine.) Excellent for the center of vases and baskets, or grown as a single specimen plant . . . . . \$1.00 to \$10.00

**PANDANUS VEITCHI.** The leaves are light green, beautifully marked with broad stripes of pure white and gracefully curved. . . . . \$1.00 to \$5.00

**SANSEVIERA ZELANICA.** 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 purchaser's expense.



Boston Fern.



Sansevieria.

# General List of Bedding Plants.

	Each.	Per Doz		Each.	Per Doz.
Ageratum, blue	10c	\$ 1 00	Lobelias, sorts	8c	\$0 75
Alternanthera, of sorts	8c	75	Marigolds, sorts	5c	60
Asters, Assorted Colors	5c	60	Nasturtiums, sorts	5c	60
Cannas, Dwarf, Started	20c	2 00	Pansies, Mc Cullough's Premier Strain	5c	50
Centaurea Gymnocarpa	10c	1 00	Petunia, Double; sorts	15c	1 50
Coleus, new sorts	8c	75	Petunia, Single; sorts	10c	1 00
Geranium, Double; sorts	10c	1 00	Phlox, Drummondii	8c	75
Geranium, Single; sorts	10c	1 00	Salvia, Scarlet	10c to 15c	1 00 to 1 50
Heliotrope, sorts	10c	1 00	Verbenas, Finest	8c	75
Hollyhock	15c	1 50	Vincas, sorts	10c	1 00
Lantana	10c	1 00	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:  
**Estelle**—The ideal scarlet carnation; producing an abundance of bright scarlet flowers of large size, stem strong and stiff; very strong clove fragrance.  
**Ethel Crocker**—Peach pink, beautiful color; free grower, fine stem and foliage  
**Glacier**—Pure white. The flowers are of good size and free flowering.

**Lorna**—Pure white. Large size, long stem, and free flowering.  
**Mrs. Bradt**—White. Heavily edged and striped with scarlet; large size and fine flower.  
**Mrs. Francis Joost**—Flowers of large size, of an exquisite shade of soft pink, strong stem; vigorous grower and free bloomer; fragrant.  
**Mrs. Thos. W. Lawson**—A beautiful deep pink; flowers of largest size; strong stiff stem; fragrant.  
**Murphy's White**—Pure white. Strong grower; good stem and calyx; the best summer bloomer.

15c Each; \$1.50 Per Dozen.

## CHRYSANTHEMUMS.

**Col. D. Appleton**—A very large, bright deep yellow, incurved. Extra fine.  
**George W. Childs**—Rich, dark velvety crimson, reflex orange. The earliest crimson variety.  
**Glory of the Pacific**—The best early pink, dwarf habit; strong, stiff stem, and excellent foliage.  
**Golden Wedding**—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.  
**Mrs. F. Bergmann**—Pure white; a fine large globular flower; the favorite white, of fine form and substance.

**Mrs. H. Robinson**—One of the finest white varieties; a perfect ball of snow when fully developed.  
**Mrs. Jerome Jones**—A beautiful waxy white, with broad incurving petals; one of the finest.  
**Niveus**—Pure white; flowers very large. The center is irregularly incurved, with the outer petals reflexing almost to the stem.  
**The Queen**—One of the best white varieties.  
**Timothy Eaton**—The largest globular Japanese incurved white, with strong, stiff stems and splendid foliage.  
**White Bonaffin**—A late flowering pure white; of fine form and substance.  
**Wm. H. Chadwick**—Waxy white, occasionally tinted pink; flowers very large. Growth, habit, stem and foliage simply perfect.

15c Each; \$1.50 Per Dozen.

## HARDY CLIMBING PLANTS.

**AMPELOPSIS VEITCHI**—(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 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 dozen. 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 dozen. By mail, 60c 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 dozen. 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 dozen.  
**JAPAN BEAN VINE OR KUDZU**. A rapid growing vine with a perfectly hardy root. The vine does not always kill to the ground during winter; whether it does or not shoots start in spring and grow with amazing rapidity, soon covering a space 30 or 40 feet high and as much in breadth. The leaves are large and handsome, of a light green color. The flowers which appear in August and September resemble those of the Wistaria with the delightful fragrance of ripe grapes 25c each, \$2.50 dozen. By mail 30c each

## CLEMATIS.

**DUCHESS OF EDINBURG**. A free-flowering double white variety, with medium-sized flowers.  
**GIPSY QUEEN**. One of the finest of the dark purple varieties. A strong grower and free bloomer.  
**HENRYIL**. Fine, large, creamy white flowers. A strong grower and very hardy; one of the best of the white varieties; a perpetual bloomer.  
**JACKMANII**. The flowers, when fully expanded are from four to six inches in diameter; intense violet purple, with a rich velvety appearance, distinctly veined. It flowers continually from July until cut off by frost.  
**MAD. ED. ANDRE**. This is the nearest approach to a bright red Clematis, and has been called the Crimson Jackmanii. The plant is a strong and vigorous grower and very free in bloom. Color is a distinct crimson-red, a pleasing shade, and different from all other varieties.  
**MISS BATEMAN**. White, with chocolate-red anthers.  
**SEIBOLDI**. Silvery lavender; a most beautiful shade.  
**Strong Plants**. 50c each, \$5.00 per dozen. Extra Strong Plants, 75c each, \$8.00 per dozen. By mail, 10c each extra.  
**CLEMATIS PANICULATA**. A beautiful, hardy blooming vine. The flowers are pure white, very fragrant, borne in large clusters.  
**Strong Plants**, 30c each, \$3.00 per dozen. By mail, 40c each.



Clematis.

## HONEYSUCKLES.

**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.  
**YELLOW TRUMPET**. A well-known variety, with yellow trumpet-like flowers.  
**SCARLET TRUMPET**. It is a rapid grower, and produces scarlet inodorous flowers all summer. 25c each, \$2.50 per dozen. By mail, 30c each.

## CHINESE WISTARIA.

**WISTARIA SINENSIS**. The favorite variety, producing thousands of pendulous clusters of delicate violet blue blossoms richly perfumed. . . . 30c each.  
**WISTARIA SINENSIS ALBA**. Of similar habit to Sinensis with pure white flowers. . . . 50c each.  
 Can only be sent by Express or Freight.



# Japanese Iris.

(Iris Kaempferi.)



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 doz. By mail 20c each.

## IRIS, GERMAN.

Desirable early Spring flowering plants; flowers of large size and exquisite colors.

- CANDIDA.** Pale blue, feathered white is distinct and good.
- CELESTE.** Fine satiny blue. This is the most beautiful Iris, and highly recommended for cut bloom.
- CREAM.** A very desirable cream color, very rare, and is something that will please you.
- FLORENTINA ALBA.** One of the most desirable white.
- HONORABLE.** Golden-yellow, lower falls reticulated crimson.
- MAD. CHEREAU.** Standards white, blue margin; very fine.
- PARISENSIS.** Purple; extra good.
- STENOPHYLLA.** Deep lavender; a delightful fragrance.

Price, 15c each. \$1.50 per dozen. By mail, 20c each.

## 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:

- ATROPURPUREUM.** (Blood-leaved.) Leaves deep blood-red all through the season.
- ATROPURPUREUM DISSECTUM.** (Cut-leaved Green.) Dark green, richly fringed, thread-like leaves of drooping nature.
- ATRO-DISSECTUM.** (Cut-leaved Purple.) Dark maroon, deep serrated, thread-like leaves, with white variegations.

2 to 3 feet, \$1.50 each, \$16.00 doz.

Mason, Ohio, November 6, 1905.

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

Gentlemen—The fruit trees I bought from you last April were received in good order, and are doing very nicely.

Very truly yours,

F. WM. ERBECK.

# 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.

**ANEMONE, QUEEN CHARLOTTE.** The finest of all the Japanese Anemones, with large semi-double pink flowers.

**ANEMONE, WHIRLWIND.** White, semi-double variety; free-flowering.

**ANTHEMIS.** These 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.

**ASTERS, HARDY.** Blooms in September and October; colors blue, lilac, crimson and white, mixed sorts. 1½ to 3 feet.

**BAPTISIA, (False Indigo) AUSTRALIS.** Strong grower, with dark green, deeply cut foliage and spikes of dark blue flowers in June and July. 2 feet. . . . . 20c each; \$2.00 per dozen

**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. . . . . 20c each; \$2.00 dozen

**BOLTONIA, (False Chamomile.)** Large, single, Aster-like flowers, blooming profusely during summer and autumn.

**BOLTONIA ASTEROIDES.** Pure white. 5 to 7 feet.

**"LATISQUAMA,** Pink, 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.

**CHRYSANTHEMUM, 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.**

**CHRYSANTHEMUM, MAXIMUM.** A free-growing plant, not exceeding 2½ feet in height, 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; they are of great substance and last a week or more when cut.

**COREOPSIS LANCEOLATA.** 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 KELWAY'S HYBRIDS.** These grand Delphiniums are the handsomest of this class of plants and deserve a position in every garden; mixed colors. . . . . 20c each; \$2.00 per doz.

**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.

**FUNKIA CERULEA.** Blue, broad green leaves.

**FUNKIA UNDULATA VARIEGATA.** Foliage green, striped with white.

**FUNKIA ALBA (Day Lily.)** Pure white, lily-shaped, fragrant flowers; borne in large clusters. . . . . 20c each; \$2.00 dozen.

**FUNKIA CORDATA VARIEGATA.** Large, deep green leaves, striped yellow. . . . . 20c each; \$2.00 dozen.

**GAILLARDIA GRANDIFLORA.** Beginning to flower in June, they continue one mass of bloom the entire summer. Flower, 3 inches in diameter; center dark reddish brown; petals vary from scarlet orange to crimson.

**HELIANTHUS, MAXIMILIANA.** 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, MULTIFLORUS 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.

**HEMORCALIS FLAVA (Yellow Day Lily.)** One of the finest hardy plants; flowers large in clusters, golden-yellow and fragrant; plant vigorous; 3 feet. June.

**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 a 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.

**MONARDA DIDYMA (Oswego Tea.)** Large brilliant scarlet flowers; a very showy plant. . . . . 2 to 3 feet.

**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.

**PENTSTEMON BARBATUS TORREYII.** Spikes of brilliant scarlet flowers; height 3 to 4 feet; June to August; very effective.

**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. . . . . 20c each; \$2.00 doz.

**POPPY, ORIENTAL.** Mammoth scarlet flowers, with black center. . . . . 20c each; \$2.00 doz.

**PYRETHRUM HYBRIDUM Fl. Pl.** Too much can not be said in favor of this grand hardy perennial. No class of plants gives a wider range of colors, while the form and substance of the flowers is all that could be wished. The bloom is similar to that of an Aster. The plants we offer are seedlings grown from extra select strain.



Coreopsis Lanceolata Grandiflora.



Gaillardia.

15 cents each; \$1.50 per dozen (except where noted.) If sent by mail 20c each.

# Hardy Herbaceous Plants—Continued.

## PÆONIES.

Magnificent, hardy plants, almost rivaling the rose in perfume, brilliancy of color and perfection of bloom. They are perfectly hardy, require little or no care, and produce larger and finer blooms when well established.

### DOUBLE PÆONIES.

- ALEXANDER DUMAS. Dark pink, very double, quite fragrant.....75c each; \$7.50 dozen.
  - BERTHA. Brilliant crimson, very large double, late.....25c each; \$2.50 dozen.
  - BOADICEA. Pink, capped with white, carmine markings, fading to white, one of the best for market.....50c each; \$5.00 dozen.
  - CONGRESS. Pure white, a beautifully formed flower.....25c each; \$2.50 dozen.
  - EMPEROR WILLIAM. Deepest crimson, very full, large, "best of the dark ones.".....50c each; \$5.00 dozen
  - FELIX CROUSE. One of the darkest, velvety, large, free, fragrant.....\$1.00 each; \$10.00 dozen.
  - FESTIVA MAXIMA. For 50 years has been universally the favorite white. Delicate white, with carmine tipped flakes to a few center petals. A strong grower with immense flowers. Early, very free, very fragrant. Four to six flowers on a single stem.....75c each; \$7.50 dozen.
  - GEN. JAQUEMINOT. Bright, dark red, color of Gen. Jacq. rose.....25c each; \$2.50 dozen.
  - GLORY OF ERFURT. White flower of the largest size, beautiful form, often flakes of crimson in center, very fine,75c each \$7.50 doz.
  - GOLDEN HARVEST. Blush guard, collar clear yellow, center white, with crimson tips, a very showy variety.....\$1.00 each; \$10.00 dozen.
  - GRANDIFLORA RUBRA. Blood red, fine form, large flower, late.....75 each; \$7.50 dozen
  - MONT BLANC. Fine, large, early, fragrant, white with lemon center.....75c each; \$7.50 dozen.
  - OSTRICH PLUME. Flower resembles an ostrich plume chrysanthemum, a very distinct, novel and beautiful flower, yellow with rose shadings.....\$1.00 each; \$10.00 dozen.
  - PÖTTSI. Dark crimson, with yellow stamens through the flowers.....25c each; \$2.50 dozen.
  - RUBRA SUPERBA. (Richardson) dark crimson, very double and finely formed, fragrant. Plant is robust and free flowering. The best late black.....75c each; \$7.50 dozen.
- We also offer unnamed double varieties, white, rose and crimson at.....20c each; \$2.00 dozen.
- PÆONIA TENUIFOLIA. Interesting and handsome, not only on account of its rich crimson double flowers, which resemble in color the Gen. Jacqueminot Rose, but the fine feathery foliage makes a handsome ornamental plant.....35c each; \$3.00 dozen.

## PHLOX DECUSSATA.

### HARDY PHLOX.

These are justly esteemed as the finest of herbaceous plants. They are of dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright, showy bloom. They are hardly equalled by any other hardy plant for the decoration of the garden.

- AMORITE. White, overlaid with lilac, center rosy crimson.
- AQUILON. Carmine-rose, shaded salmon, crimson eye.
- COQUILECOT. Bright orange-scarlet, with crimson eye; extra large compact flower heads.
- ECLAIREUR. Dark crimson, center rose, surrounded with white.
- HENRY MURGF. Large, pure white; carmine center; best of its color.
- JEANNE D'ARC. Pure white; late flowering; extra fine.
- LOTHAIR. Salmon-rose, with carmine eye; extra fine large flower.
- PEARL. Large, pure white flowers; dwarf; extra fine.
- PANTHEON. Deep salmon-rose; very fine.
- THEBAIDE. Salmon, with carmine eye; dwarf; extra fine.

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.



Phlox.

RUDBECKIA. (Golden Glow.) One of the most desirable, most effective flowering plants for August and September. It grows six feet high, branching freely and throwing up masses of large double yellow flowers. Invaluable for cutting.

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.

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 the edge. A first-class acquisition.....20c each; \$2.00 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 doz.

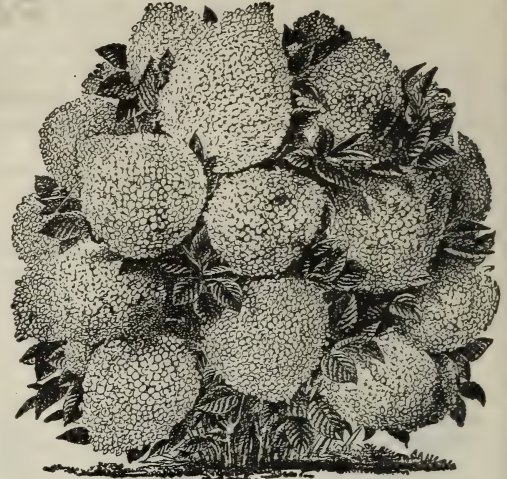


Yucca Filamentosa.

15c each; \$1.50 per doz. (except where noted.) If sent by mail 20c each.

# ORNAMENTAL FLOWERING SHRUBS.

- Almonds Flowering.** Double White and Double Rose; produces beautiful flowers in May, 2 to 3 feet. 35c each; \$3.50 per doz.
- Althea.** (Rose of Sharon), Strong erect growing shrubs, which bear large and showy flowers in early fall. Double Rose, Double White, Double Purple.....30 and 50 cents each.
- Althea, Variegated Leaved.** Leaves conspicuously margined creamy white; flowers double purple.....35 and 50 cents each.
- Althea, Jeanne d' Arc.** Double White.....35c each; \$3.50 per doz.
- Althea, Totus Albus.** Single pure white.....35c each; \$3.50 per doz.
- Althea, Meteor.** Bright, deep crimson.....35c each; \$3.50 per doz.
- Althea, Ardens.** Bluish purple.....35c each; \$3.50 per doz.
- Althea, Violacea.** Reddish violet.....35c each; \$3.50 per doz.
- 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; \$8.00 per doz.
- 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.....25c each; \$2.50 per doz.
- Berberis Thunbergii.** (Thunberg's Barberry). A pretty species, of dwarf habit, small foliage, changing to a beautiful coppery red in autumn.....25c each; \$2.50 per doz.
- Calycanthus Floridus.** (Sweet-Scented Shrub). Flowers fragrant, like strawberries; double and of a chocolate color, 2 to 3 feet.....30c each; \$3.00 per doz.
- Caryopteris Mastacanthus.** (Blue Spirea). A pretty autumn blooming shrubby plant producing clusters of beautiful blue fragrant flowers in great profusion from September until frost.



**Hydrangea Paniculata Grandiflora.**

Dies to the ground in winter.

- 25c each; \$2.50 per doz.
- 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. 50c each; \$5.00 per doz.
- 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.....30c each; \$3.00 per doz.
- Corchorus Japonica.** (Globe Flower). A graceful shrub with double yellow flowers from June to October; 3 feet. 25c each; \$2.50 per 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 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.
- Cornus Sanguinea Variegata.** Deep blood-red bark, leaves finely marked, with white.....35c each; \$3.50 per doz.
- Deutzia Crenata flora plena.** Flowers double white, tinged with pink; 2 to 3 feet.....30c each; \$3.00 per doz.
- Deutzia Gracilis.** A dwarf bush, covered with spikes of pure white flowers in early summer.....25c each; \$2.50 per doz.
- Deutzia Lemoinei.** Flowers pure white, borne on stout branches, which are of upright growth. Habit dwarf and free flowering. A decided acquisition.....25c each; \$2.50 per doz.
- Deutzia Pride of Rochester.** 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, profuseness of bloom and vigorous habit. 25c each; \$2.50 per doz.
- Dwarf Horse Chestnut.** (Pavia Spicta). Makes a broad bush, with white flowers in summer...\$1.00 each; \$10.00 per doz.
- Elder, Variegated.** Leaves mottled white and yellow.....35c each; \$3.50 per doz.
- Elder, Cut-Leaved.** Leaves fern-like, with drooping branches.....35c each; \$3.50 per doz.
- Euonymus Atropurpureus.** (Burning Bush). A very 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. 25c each; \$2.50 per doz.
- Exochorda Grandiflora.** (Pearl Bush). A vigorous-growing shrub; bearing white flowers in tender racemes in early spring; very graceful; useful for cut flowers.....35c each; \$3.50 per doz.
- Filbert, Purple-leaved.** Large, rich, purple leaves.....35c each; \$3.50 per doz.
- Forsythia Viridissima.** (Golden Bell). Bears bright-yellow flowers before the leaves appear.....25c each; \$2.50 per doz.
- Fringe, Purple or Smoke Tree.** (Rhus Cotinus). Has very curious bloom, which, when covered with dew, resembles a cloud of smoke or mist; 4 feet.....30c each; \$3.00 per doz.
- Fringe, White.** A tall-growing shrub, blooming profusely in June. The singular flowers resemble bunches of white silken fringe, hung gracefully among the foliage.....50c each; \$5.00 per doz.
- Golden Elder.** (Sambucus). One of the best yellow foliage shrubs; the color is remarkably bright, rich and constant.....25c each; \$2.50 per doz.
- 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. 30c each; \$3.00 per doz.
- Honeysuckle, Tartarian.** (Bush Honeysuckle). Red and white. 35c each; \$3.50 per doz.
- Hydrangea Paniculata Grandiflora.** 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 color and remain in good condition for weeks. 25c each; \$2.50 per doz. Extra strong plants 35c each; \$3.50 per doz.
- Hydrangea Paniculata Grandiflora.** Standard or Tree shaped plants, which will make beautiful specimens for the lawn or garden. 50c each; \$5.00 per doz.



Lilac.

# ORNAMENTAL FLOWERING SHRUBS==Continued.

- Lilac, Charles X.** Rapid grower, reddish, purple flowers. 75 cts. each; \$7.50 per doz.
- Lilac, Marie Legraye.** Flowers pure white, extra. 75 cts. each; \$7.50 per doz.
- Lilac, Ludwig Spaeth.** Long panicles of purplish-red flowers. 75 cts. each; \$7.50 per doz.
- Lilac, Madame Lemoine.** Double white flowers. 75 cts. each; \$7.50 per doz.
- Lilac, Josikaea.** Blooms in June, flowers lilac-purple. 75 cts. each; \$7.50 per doz.
- Lilac, Common** (*Syringa vulgaris*). The common purple species, and one of the best. 3 feet. 25 cts. each; \$2.50 doz. Extra strong plants 50 cts. each; \$5.00 doz.
- Lilac, Common White** (*S. vulgaris alba*). Flowers pure white; very fragrant. 2 feet. 25 cts. each; \$2.50 doz. Extra strong plants, 50 cts. each; \$5.00 doz.
- Philadelphus Coronarius.** (Mock Orange or Syringa). A well known shrub, with pure white, highly scented flowers. One of the first to flower.....25c each; \$2.50 doz. Extra strong plants, 50c each; \$5.00 doz.
- Philadelphus Lemoinei Erecta.** A charming variety of upright growth; flowers small, yellowish white, fragrant..... 25 cts. each; \$2.50 doz.
- Pyrus Japonica.** (Japan Quince.) Blooms in early spring; flowers dazzling scarlet. Makes an excellent hedge; 3 feet.....25 cts. each; \$2.50 doz.
- Robinia Hispidia.** (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. 60 cts. each; \$6.00 doz.
- Spiraea 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.....30 cts. each; \$3.00 doz.
- Spiraea, Bumaldi.** Low, spreading bush, pink flowers. 35 cts. each; \$3.50 doz.
- Spiraea, Callosa.** Dark red flowers.....35 cts. each; \$3.50 doz.
- Spiraea, Callosa Alba.** Compact grower, flat clusters, white flowers..... 35 cts. each; \$3.50 doz.
- Spiraea, Aurea.** Golden yellow foliage, white flowers.....35 cts. each; \$3.50 doz.
- Spiraea, Thunbergi.** White flowers, with colored foliage in fall.....50 cts. each; \$5.00 doz.
- Spiraea Prunifolia.** (Bridal Wreath). Blooms in May, with pure white double flowers. Makes showy specimen plants for lawn.....25 cts. each; \$2.50 doz.
- Spiraea Reevesii Fl. Pl.** Tall and graceful, with dark bluish green foliage, and large pure white double flowers in May and June.....25 cts. each; \$2.50 doz.
- Spiraea Van Houttei.** The grandest of all the Spiraeas; 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 raceme, and these clusters are set close along the drooping stems. Perfectly hardy and an early bloomer. 25c each; \$2.50 doz.
- Tamarix, Africana.** Of graceful spreading growth, covered with pink flowers in early spring.....50 cts. each; \$5.00 doz.
- Viburnum Lantana.** (Wayfaring Tree). White flowers, bright red fruit.....50 cts. each; \$5.00 doz.
- Viburnum, Macrocephalum.** Creamy white flowers, extra.....\$1.00 each; \$10.00 doz.



Snowball.



Weigelia.

- Viburnum Opulus.** (High Bush Cranberry). Both ornamental and useful. Its red berries resembling cranberries, esteemed by many, hang until destroyed by frost late in the fall.....25 cts. each; \$2.50 doz.
- Viburnum Sterilis.** (Snowball). A favorite shrub of large size, with globular clusters of pure white sterile flowers the latter part of May.....25 cts. each; \$2.50 doz.
- 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 cts. each; \$5.00 doz.
- Weigelia Candida.** The best white Weigelia; 3 feet.....35 cts. each; \$3.50 doz.
- Weigelia Desboisii.** Beautiful deep rose-colored flowers; 3 feet.....30 cts. each; \$3.00 doz.
- Weigelia Eva Rathke.** A charming variety, flowers brilliant crimson; a beautiful, distinct, clear shade.....35 cts. each; \$3.50 doz.
- Weigelia Rosea Nana Variegata.** Leaves beautifully margined creamy white; flowers pink. It is a dwarf grower, and adapted to small lawns or gardens; 3 feet. 30 cts. each; \$3.00 doz.

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.

## ORNAMENTAL GRASSES.

- Arundo Donax.** (Great Reed). An ornamental giant grass, growing ten to twelve feet high.
- Arundo Donax.** Variegated. 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.

25 cents each, \$2.50 per dozen.

## EVERBLOOMING ROSES.



The tea-scented everblooming Roses are admired for their delicious fragrance, free-blooming qualities, and the exquisite form and coloring of their flowers. They make excellent bidders, 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 centre a rich carmine crimson; delicious fragrance.

**Strong plants, 50c each; \$5.00 Dozen. Medium plants, 25c each; \$2.75 Dozen.**

**Bridesmaid.** Deep brilliant pink. The buds are large, long and pointed. A most desirable sort for garden or winter forcing.

**Burbank.** The freest flowering Rose; commences to bloom when only a few inches high and blooms throughout the season until killed by frost. Color, bright pink; strong vigorous grower, perfectly hardy and fragrant.

**Clothilde Soupert.** Pearl white, shaded at the centre with silvery rose; produced in the greatest profusion. It makes a fine plant either for pot culture or outdoor planting.

**Dr. Grill.** Color, copper yellow. The best and freest flowering yellow rose, perfectly hardy.

**Duchess of Albany.** (Hybrid Tea.) Rich deep pink, exceedingly fragrant; vigorous grower.

**Dwarf Crimson Rambler.** A dwarf growing, ever blooming, Crimson Rambler. It blooms when a small plant and forms clusters of flowers as large as the Crimson Rambler, and blooms uninterruptedly from June until fall. It forms plants from 12 to 16 inches high. It is one of the best roses for groups and borders. . . . . 50c each; \$5.00 doz.

**Etoile de Lyon.** Deep golden yellow; very large and full buds, strong, vigorous grower; fine for outdoor summer-blooming.

**Franz Deegan.** (Hybrid Tea.) A fine large Rose. The outer petals; rich golden yellow; the inner petals orange. A strong healthy grower, not subject to mildew, and a constant bloomer, opening its buds freely.

**Golden Gate.** Creamy white, delicately tinged with rose; flowers are large, very double and full, and delightfully fragrant.

**Gruss-an-Teplitz.** (Hybrid Tea.) Bright scarlet, shading to crimson; fragrant and profuse bloomer. The foliage is beautiful and 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 centre, 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 Derapas Matrat.** (Yellow Cochet.) Sulphur yellow changing to rose, free-growing and hardy. It throws up fine, strong stems, crowned by solitary buds of grand size; blooms large, double, splendid form and freely produced. The ideal yellow bedder.

**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 of enormous size, remarkably round and full, pure, clear, snowy white, sometimes tinged with rose; delightfully tea scented. It is by far the finest and most reliable white bedding Rose yet produced.

**Marechal Neil.** Golden yellow, climbing habit.

**Meteor.** (Hybrid Tea.) Rich dark velvety crimson; a free blooming and vigorous grower.

**Perle des Jardins.** Beautiful rich yellow, of large size and perfect form

**President Carnot.** (Hybrid Tea.) The flower of the largest size, of exquisite shape; buds long and pointed; color outer petals, white; centre delicate flesh pink. Excellent summer blooming variety.

**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.** The most beautiful Rose of its class. In close bud form it shows the high brilliant colors seen only in the "Austrian-Copper," 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 and of a grand form.

**The Bride.** Pure white, large size and perfect form, strong grower and free bloomer; delicious fragrance.

**Large Plants, 25 Cents Each; \$2.75 per Dozen.**

**Medium Plants, 15 Cents Each; \$1.50 per Dozen.**

**EXCEPT WHERE NOTED.**

**Large Rose Plants cannot be sent by Mail.**

**Medium Sized Plants, 5 Cents Each extra for Postage.**



La France.

# ROSES—Hardy Hybrid Perpetual.



Gen. Jacqueminot.

Hybrid Perpetual Roses are hardy a vigorous. The flowers are very large, of delightful fragrance, and the colors are richer than the Teas or Everblooming.

**Captain Christy.** A lovely rose, very large, double buds of a deep flesh color.

**Clio.** Flesh color, shaded to the center with rosy pink; large size of fine globular form, and freely produced.

**Dinsmore.** A vigorous and free-blooming rose, perfectly hardy and bearing large, perfectly double flowers of a rich scarlet-crimson color.

**Frau Karl Druschki.** Large, snow-white flowers, perfectly double and delightful fragrant.

**General Jacqueminot.** Brilliant scarlet-crimson of fine shape and exquisite fragrance.

**General Washington.** Dark velvety crimson, large and full.

**John Hopper.** Bright rose, carmine centre; flowers large cupped and well formed.

**Jubilee.** Rich deep red, shading to deep crimson and velvety maroon; finest dark red variety.

**Madame Charles Wood.** Vivid crimson, large and full.

**Magna Charta.** Bright pink, suffused with carmine; strong, vigorous grower.

**Mrs. John Laing.** Rich, satiny pink; delicious fragrance; blooms constantly.

**Paul Neyron.** Very large dark rose; by far the largest rose in cultivation.

**Prince Camille de Rohan.** Dark, crimson-maroon; richly shaded, full, large and superb.

**Ulrich Brunner.** Bright cerise-red; flowers large and full.

Large Plants, 30c each; \$3.00 per dozen.

We also have a limited supply of extra large plants that we offer, as long as present stock lasts, at 50c each; \$5.00 per doz.

## MOSS ROSES.

**Blanche Moreau.** Lovely pure white; large and full.

**Crested Moss.** Rose color; beautifully crested.

**Perpetual White.** One of the finest.

**Pink Moss.** Should be in every collection.

Large Plants, 30c each; \$3.00 per Dozen.

**PERSIAN YELLOW.** Perfectly hardy; flowers double and full; deep golden yellow in color; blooms very freely in June. The finest hardy yellow rose grown.

Strong Plants, 30c each; \$3.00 per Dozen.

## 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.** Fine glossy crimson.

**Rugosa Alba.** Pure white.

Strong Plants, 30c each; \$3.00 per Dozen.

## HARDY CLIMBING ROSES.



Crimson Rambler.

**Baltimore Belle,** double. Pale blush; nearly white, in clusters.

**Clothilde Soupert.** Similar in form and color to the well-known Clothide Soupert, but flowers are larger. Vigorous grower, and hardy.

**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. The profusion of bloom is marvelous, over three hundred blossoms having been counted on one shoot. Strong vigorous grower.

**Dorothy Perkins.** A shell-pink climbing-rose. This 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 great acquisition; good forcer and free flowerer, absolutely hardy.

**Michigan Climber.** Single variety; flowers nearly two inches in diameter; produced very freely; color bright rich pink; strong vigorous grower.

**Philadelphia Rambler.** Similar to the Crimson Rambler, except in color, which is a deeper, brighter and more intense crimson, which never fades out; a strong healthy grower, free and abundant bloomer.

**Pink Rambler.** Pure satiny rose, single in clusters. The partially open buds being bright, light carmine, thus producing a strong and pleasing contrast. In hardness, freedom of bloom and vigorous climbing habit fully equal to Crimson Rambler.

**Prairie Queen.** The flowers are very large and of peculiar globular form. Bright rosy-red, changing to lighter as the flower opens. Of very strong, rapid growth.

**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.

**White Rambler.** Closely resembles the Crimson Rambler in vine and foliage. Large clusters of pure white flowers, which are deliciously fragrant. The flowers remain on the plant a long time (from three to five weeks), 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. We have some Extra Strong Plants at 50c and \$1.00 each.

Large Rose Plants can only be sent by Express, at purchaser's expense.

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.

# ROSES, POT GROWN.

For several years we have made a specialty of supplying extra-sized, well-rooted and strong growing Rasas, which we can recommend to anyone who desires quick and satisfactory results. We are prepared this season to offer the following sorts, strong field-grown stock from pots, at lowest values consistent with quality.

## EVERBLOOMING ROSES.

- AMERICAN BEAUTY.** (Hybrid Tea.) Deep rose shaded towards center a rich carmine crimson; delicious fragrance.
- DUCHESS OF ALBANY.** (Hybrid Tea.) Rich deep pink, exceedingly fragrant; vigorous grower.
- GRUSS-AN-TEPLITZ.** (Hybrid Tea.) Bright scarlet, shading to crimson; fragrant and profuse bloomer.
- HELEN GAMBIER.** Flowers deep orange yellow; shading to copper yellow, then almost white in the outside row of petals.
- HELEN GOULD.** (Hybrid Tea.) Large, full flowers of fine form, of bright, glowing carmine—the bud is long and pointed.
- KAISERIN AUGUSTA VICTORIA.** (Hybrid Tea.) Pearly white, fragrant, a strong healthy grower. Flowers are borne on long stems.
- LA FRANCE.** (Hybrid Tea.) Splendid satiny rose; very large, full, fine form, a constant bloomer, delicious fragrance.
- LIBERTY.** Rich, fiery ruby, with deep crimson tones in the depth of the flowers, covered with a rich, velvety bloom.
- MADAME ABEL CHATENAY.** (Hybrid Tea.) Flowers large and full, petals recurved and of a beautiful rose, shaded with vermilion and tinged with salmon.
- METEOR.** (Hybrid Tea.) Rich dark velvety crimson; a free blooming and vigorous grower...
- PRESIDENT CARNOT.** (Hybrid Tea.) The flower of largest size, buds long and pointed; color, outer petals white, center delicate flesh pink. Excellent Summer blooming variety.



Duchess of Albany.

## HARDY HYBRID PERPETUAL ROSES.

- FRAU KARL DRUSCHKI.** Large, snow-white flowers, perfectly double and delightfully fragrant.
- GENERAL JACQUEMINOT.** Brilliant scarlet-crimson, of fine shape and exquisite fragrance.
- MRS. JOHN LAING.** Rich, satiny pink; delicious fragrance; blooms constantly.
- PAUL NEYRON.** Very large, dark rose; by far the largest rose in cultivation.
- ULRICH BRUNNER.** Bright cerise-red; flowers large and full.

## HARDY CLIMBING ROSES.

- CLIMBING KAISERIN.** Hardy, pure white double flowers and everblooming.
- CLIMBING PAUL NEYRON.** Large, bright pink flowers.
- CLIMBING CLOTHILDE SOUPERT.** Similar in form and color to the well-known Clothilde 'Soupert, but flowers are larger. Vigorous grower, and hardy.

Strong Plants, from 5 and 6 inch, Pots 50c each \$5.00 [Dozen,]

## 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 the rich, brilliant colors, the fruit or berries becoming scarlet. \$2.00 per dozen; \$15.00 per 100

**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.

Large plants 75c dozen; \$4.00 per 100.

Extra large 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.

**PYRUS JAPONICA.** The Japan Quince or Fire Bush is one of the oldest ornamental hedge plants and still used extensively; 18 to 24 inches high.



California Privet Hedge,

**We can specially recommend our California Privet this season. Are in position to give immediate attention to all orders.**





# Fruit Trees, Small Fruits, Grape Vines, Etc.

**S**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, 25c each; \$2.50 per doz.

### 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, 25c each; \$2.50 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.

## PEARS.

Standard and Dwarf.

6 to 7 feet, first-class, 50c each; \$5.00 per dozen.

**BARTLETT.** Large, clear yellow, juicy. August.  
**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.  
**KOONCE.** Yellow with carmine cheek; a good early variety.  
**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.

**MEECH'S PROLIFIC.** Fruit bright yellow; flesh very fragrant and tender. October.  
**ORANGE.** Large, bright golden yellow, fine quality; flesh firm, cooks tender. October.

## PEACHES.

4 to 6 feet, 25c each; \$2.50 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 cheek early in August.  
**ELBERTA.** Large, yellow with red cheek, 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; October.  
**MOUNTAIN ROSE.** Large; handsome red cheek, flesh white, juicy; one of the best August.  
**OLD MIXON CLING.** Large, yellow with red cheek; September.  
**OLD MIXON FREE.** Large, yellow with red cheek; September.  
**SALWAY.** Large, creamy yellow, with crimson cheek; October.  
**SMOCK'S FREE.** Large, yellow, very productive; late September.

## CHERRIES.

Heart and Bigarreau (Sweet.)

5 to 7 feet, first-class, 50c each; \$5.00 per dozen.

**ALLEN.** Large, nearly black, very mealy 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.

**DYEHOUSE.** 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.

## 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.  
**RED JUNE.** Large, red, fine quality; strong, vigorous grower. Finest extra early plum.  
**SHIPPER'S PRIDE.** Large, purple, fine, juicy and sweet.  
**WEAVER.** Large, purple, good quality and very prolific.  
**WILD GOOSE.** Medium, purple, flesh juicy and sweet.

## MULBERRIES.

5 to 6 feet, 50c each; \$5.00 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.

**FRUIT TREES, SMALL FRUITS, Etc.—Continued.**

**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.
- LIVES' SEEDLING. Dark purple, sweet. . . . .10c each; \$1.00 doz.
- MCPIKE. Bunch and berries very large, of finest quality; the finest black grape. . . . .35c each; \$3.75 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, musky flavor. . . . .15c each; \$1.25 doz.
- DELAWARE. Small, light red, thin skin, very juicy, sweet, sprightly, fine flavor. . . . .15c each; \$1.50 doz.

White or Yellow Grapes.

- GREEN'S EARLY. (New) nearly as large as Niagara, of fine quality and ripening before Moore's Early. An excellent shipper. Berries white. . . . .30c each; \$3.00 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. . . . .15c each; \$1.25 doz.
- POCKLINGTON. A seedling of the Concord, resembling that variety in leaf, vine, habit of growth, hardiness and productiveness. Bunch and berry very large; attractive golden yellow color. . . . .15c each; \$1.25 doz.
- RENTISS. Bunch large and compact; berry medium to large, yellowish green skin thin but very firm; sweet, juicy, with pleasant aroma. . . . .25c each; \$2.50 doz.

**Blackberries.**

50 cts. per Dozen; \$3.00 per 100 except where noted.

- ANCIENT BRITON. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, hardy.
- BLOWER'S (new.) Large, luscious berries, rich in quality and quantity. . . . .15c each; \$1.50 doz.
- EARLY HARVEST. Very prolific, choice variety.
- ELDORADO. Large fruit, borne in large clusters and ripen well together, fine quality, good keeper.
- KENOYER (new.) Early, berry large of good color, heavy yielder and good shipper. . . . .15c each; \$1.50 doz.
- MERSEREAU (new.) Extremely hardy, berries sweet, rich, melting and luscious without core. Good keeper and shipper. . . . .75c per dozen; \$3.00 per 100
- NYDER. Medium size, sweet and juicy, extremely hardy and very productive.
- WARD (new.) Vigorous grower, heavy yielder, berries large, rich, sweet and tender. . . . .75c per dozen; \$3.00 per 100
- WHITE ICELAND. A WHITE BLACKBERRY. This is a decided novelty, very prolific, sweet, tender and firm. . . . .Price, 10c each; \$1.00 per dozen.

**Dewberry.**

- UCRETIA. 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.

**Currants.**

10 cts. Each; \$1.00 per Dozen.

- BLACK CHAMPION. Large bunch and berry, excellent quality, strong grower, very productive.
- CHERRY. Fruit large, bunch small, deep red, acid.
- RAY'S PROLIFIC. Extra large stems and berries, color rich red, fine quality, very productive.
- ROMONA. Bright red, extra fine quality and enormously productive; strong, vigorous grower.
- RED DUTCH. An old favorite variety with large red berries.
- WHITE GRAPE. Large, yellowish white, sweet, excellent quality and valuable for the table.

**Gooseberries.**

- DOWNINGS. Very large and fine quality. . . . . \$2.00 doz.
- FOUGHTON. Medium size, very productive. . . . . \$2.00 doz.
- SMITH'S IMPROVED. Large, thin skin, best for table use. . . . . \$2.00 doz.
- INDUSTRY. English sort, of very large size hardy. . . . . \$2.00 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.
- BRILLIANT (New.) Berries large, beautiful, brilliant red. Good market variety. 10c each; \$1.00 per dozen.
- 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 (New.) Hardy and strong grower, berries red, large, handsome, firm and of highest quality, solid and good keeper. 35c each, \$3.50 per dozen.
- EUREKA. Large, black variety, fruit firm, of superior quality strong, vigorous grower and very prolific.
- 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 (New.) A purple cap variety, berries large and firm, never crumbles and stands up well in shipping. 10c each, 75c per dozen.
- KING (New.) The earliest Red Raspberry; berries round, medium size, light crimson and excellent quality. 75c per dozen; \$2.50 per 100.
- 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 hardiness. Will remain on bushes the longest without injury.

**Strawberries.**

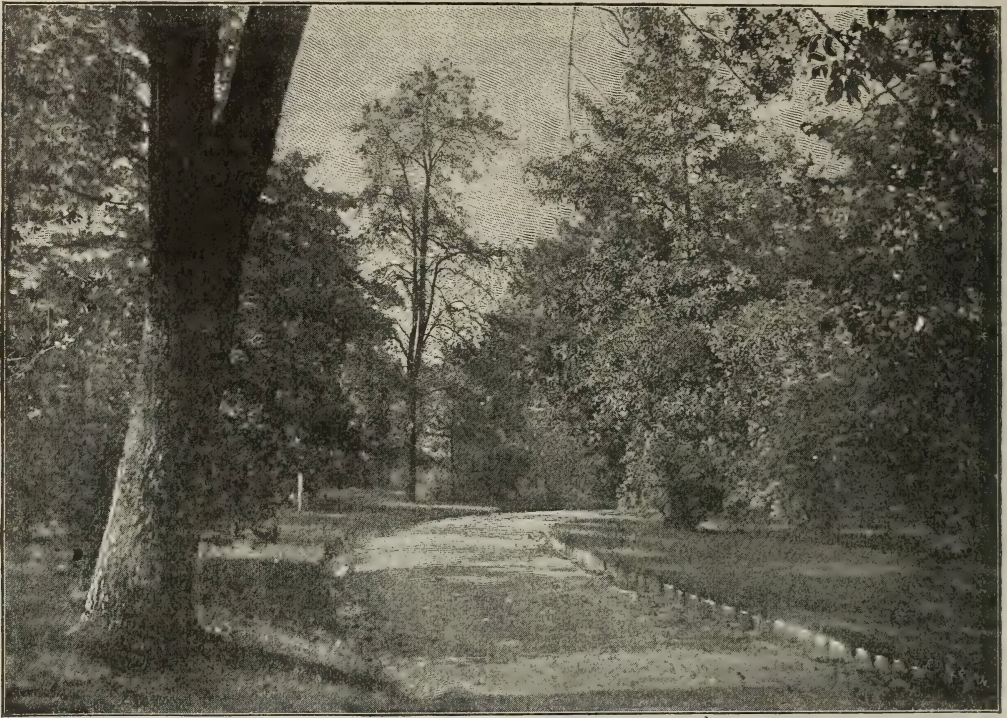
All varieties offered in this list have perfect or bi-sexual blossoms, except those marked (P), which are destitute of stamens, and are termed pistillate or imperfect flowering varieties and must be planted near some perfect-flowering sort or they will produce little or no fruit. We advise Fall planting for best results.

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.

- BISMARCK. Very large and productive, bright scarlet, fine quality, good shipper, requires rich soil.
- BUBACH, No. 5 (P). Very large and productive, bright scarlet; a fine market variety; early to medium.
- CLYDE. Large, light scarlet color; conical shape; very productive, good quality.
- CUMBERLAND. Large light red; conical shape; handsome and showy; plant vigorous and productive.
- ENHANCE. Large, bright crimson, firm, very prolific.
- GANDY. Large firm berries, excellent long-keeping and shipping variety.
- GLEN MARY. Large, bright red; sweet, rich, good flavor; vigorous grower, productive.
- GREENVILLE (P). Large, roundish berries of excellent quality firm and good shipper; very productive.
- HAVERLAND (P). Large, bright red, excellent flavor; vigorous grower; ripens fruit evenly and early.
- JESSIE. Large, handsome berry, of good quality; vigorous grower; good market sort.
- SENATOR DUNLAP. Large, bright red; firm splendid keeper and shipper; excellent quality; one of the best.
- WARFIELD. Firm and productive; berries large and firm.

**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.



View of Lawn and Trees.—Shady Places.—“The Pines,” Residence of Mr. Albert McCullough.

## McCullough's "Suburban" Lawn Grass Seed

**I**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 four bushels (64 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 300 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 be not 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 the 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:**  $\frac{1}{2}$  lb. 15c; 1 lb. 25c; 5 lbs \$1.00; 1 bu. of 16 lbs. \$3.00. By mail 10c per lb. extra.



**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 82.)

## 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; 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., 30c; 5 lbs., \$1.40; 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;

15x20 feet requires . . . . . 1 pound.	40x60 feet requires . . . . . 8 pounds.	50x100 feet requires . . . . . 16 pounds.
30x50 feet requires . . . . . 5 pounds.	40x75 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; 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., 80c; 1 bu. of 16 lbs., \$2.25. 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 nine 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.

# DEPARTMENT

—OF—

# GRASS SEEDS.



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.

As always, our aim is still QUALITY, QUANTITY, PRICE. When desired, we shall be pleased to mail samples, with special quotations on large quantities.

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 do not desire to be considered only as Sellers of seeds, but we are the largest Buyers in this section and will always pay the highest market prices.

## 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. We have for years been actively engaged in the introduction and distribution of all the principal grasses of America as well as the leading grasses of Europe, and, being familiar with the nature and habits of each, we are in a position to advise intelligently concerning a matter of prime importance to every Farmer and Stockman. 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 mixtures 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.	In lots of 10 bushels or over	Per bu.
Mixtures for meadows, first quality . . . . .	\$2 25		\$2 00
" " meadows, second quality . . . . .	1 75	" " "	1 60
" " permanent pasture, first quality . . . . .	2 25	" " "	2 00
" " permanent pasture, second quality . . . . .	1 65	" " "	1 50
" " pasture and hay in orchard and other shady places, first quality . . . . .	2 25	" " "	2 00
" " pasture and hay in orchard and other shady places, second quality . . . . .	1 75	" " "	1 60
" " marshy grounds, first quality . . . . .	2 00	" " "	1 75
" " marshy grounds, second quality . . . . .	1 75	" " "	1 60
" " sandy and rocky grounds, first quality . . . . .	2 00	" " "	1 75
" " sandy and rocky grounds, second quality . . . . .	1 50	" " "	1 40

## General List of Grass Seeds.

For convenience of our customers, all prices herein are estimated by the pound. The number of pounds to the bushel is mentioned in brackets merely for reference. 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 2 bushel, 18 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, cold and drought. It has been found to do well in the Northwest and Canada. 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.; \$1.25 for 10 lbs.; \$10.00 per 100 lbs.

**GRASS SEEDS**—Continued.



Meadow Fescue Grass.



Orchard Grass.



Perennial Rye Grass.

**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 . . . . .25c lb.; \$2.00 for 10 lbs.; \$17.50 per 100 lbs.

**CRESTED DOGSTAIL.** (*Cynosurus Crystatus*.) Perennial. Height, 1 to 1½ 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 100 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.; \$7.50 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. . . . .15c lb.; 10 lbs. \$1.00

**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 in 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, 20c lb.; \$1.65 for 10 lbs.; \$14.50 per 100 lbs.

**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.)  
15c lb.; \$1.25 for 10 lbs.; \$10.00 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. . . . .20c lb.; \$1.50 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 . . . . .20c lb.; \$1.50 for 10 lbs.

**FINE-LEAVED SHEEP'S FESCUE.** (*Festuca Ovina Tenifolia*.) 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. . . . .35c lb.; \$3.00 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. . . . .30c lb.; \$2.50 for 10 lbs.

**MEADOW FOXTAIL.** (*Alopecurus Pratensis*.) Perennial. Height, 2 to 3 feet. Resembles Timothy, but flowers much earlier, being of very early and rapid growth. It is highly relished by stock; endures close cropping, forms a luxuriant aftermath, and quickly revives after a long drought. Sow, if alone, 25 lbs. per acre. Weight, about 7 lbs. per bushel. . . . .25c per lb.; \$2.25 for 10 lbs.

**ORCHARD GRASS.** (*Daactylis 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.; \$1.40 for 10 lbs.; \$12.00 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.; \$8.00 per 100 lbs.

Glades, Tenn., September 4, 1907

The J. M. McCullough's Sons Co., Cincinnati, O.:  
Gentlemen—The Lawn Grass Seed I purchased of you last Spring has made me a beautiful lawn,  
Yours truly,

S. H. BINGHAM.

**GRASS SEEDS—Continued.**

- 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, ..... 10c lb.; 85cts for 10 lbs.; \$7.50 per 100 lbs.  
 Fancy Pure Seed: Weight about ½32 lbs. per bushel. Sow 10 to 12 lbs per acre. 15¢ lb.; \$1.00 for 10 lbs.; \$9.50 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 ..... 20c lb.; \$1.75 for 10 lbs.; \$16.50 per 100 lbs.
- SWEET VERNAL GRASS, TRUE PERENNIAL.** (*Anthoxanthum Odorum*.) 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 dried, thus sweetening hay. Sow 3 to 5 lbs. per acre with other grasses. 65c lb.; \$5.00 for 10 lbs.
- SWEET VERNAL GRASS, ANNUAL.** (*Anthoxanthum Odorum Puelli*.) Much smaller than the perennial. 15c lb.; \$1.30 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. 40c lb.; \$3.75 for 10 lbs.
- TIMOTHY.** (*Phleum Pratense*, Herd's Grass, Cat's-tail Grass.) This grass stands at the head of meadows. Never use less than a peck to the acre, then up to one-half bushel as to circumstances. .... Market price.  
 Add 10cts per pound extra if sent by mail.

**Clovers or Artificial Grasses.**

Add 10 Cents Per Pound Extra if Sent by Mail. Bags Extra—Two-Bushel Seamless Bags at 18 Cents Each.

**TURKESTAN ALFALFA OR LUCERNE.** ("Medicago Sativa, Turkestanica.") Vastly superior to the common Alfalfa, as it withstands extreme drought and cold much better than the common. Has been known to stand through a winter in South Dakota where the minimum temperature, was 40 degrees below zero, with the ground bare, the common Alfalfa being killed. Excellent crops have been raised on strongly Alkaline soil. Grows more rapidly under same conditions than common Alfalfa. Plants grow stronger and more leafy, with slender and less woody stems than the common sort making finer and more nutritious hay. We have secured our supply by direct importation, and must not be confused with inferior or substituted articles. Follow general directions for cultivation and sow 20 to 30 lbs. per acre.

1 lb. 25c., 10 lbs. \$2.00; 25 lbs. \$4.50; 100 lbs. \$16.00.

**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 ..... 20c lb.; \$1.75 for 10 lbs.; \$15.00 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.; \$1.75 for 10 lbs.; \$14.00 per 100 lbs.

**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.

**JAPAN CLOVER.** (*Lepedeza 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. The grades of the market are Good, Prime and Choice. 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

**GIANT SAINFOIN ESPARSETTA.** (*Onobrychis Sativa*.) A perennial, the duration of good crops being about eight years. Grows two to three feet high. Sow 10 to 12 lbs. per acre. .... 15c lb.

**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 in 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.; \$1.00 for 10 lbs.; \$9.00 per 100 lbs.

**WHITE DUTCH CLOVER.** (*Trifolium Repens*.) The best variety for lawns, as it forms a close herbage and remains greener throughout the season; it is also excellent for bee food. Sow 6 to 8 lbs. per acre. 30c lb.; \$2.25 for 10 lbs.; \$18.00 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.





# 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 18 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 40c peck; \$1.40 bushel.

**NORTHERN OR WESTERN GROWN MILLET.** ..... 35c peck; \$1.10 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; \$1.10 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..... 40c peck; \$1.25 bushel.

**EARLY FORTUNE MILLET.** Sometimes called Red Hog Millet, the seed being dark red, merging into brown. Yields from 40 to 50 bushels of seed per acre, plant highly esteemed as forage, and because of its ability to mature a crop in short season. Extensively used for stock, poultry and bird feed. Sow 1 bushel per acre..... 40c peck; \$1.15 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. 75c; 100 lbs. \$6.00

**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. 35c; 100 lbs. \$1.40

**RED KAFFIR CORN.** This grows taller than the white, the stalks are slenderer, but more juicy and very leafy. The heads are long, slender, compact and grow erect; they measure from one to two feet. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and yields well. It ripens a little earlier than the white variety and yields much heavier..... 5c lb.; 10 lbs. 40c; 100 lbs. \$1.75-

**VETCHES—SPRING TARES.** (*Vicia Sativa*.) Sown broadcast at rate of 1 to 1½ 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.) \$2.25.

**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 3 to 4 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 1½ bushels to the acre.  
15c lb.; 15 lbs. for \$1.80; bushel (60 lbs.) \$5.25.

## 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. 30c; bushel (50 lbs.) \$1.00

**EARLY AMBER CANE.** This popular and well-known variety is the earliest, and makes the finest quality of both sugar and syrup. .... 5c lb.; 10 lbs. 30c; bushel (50 lbs.) \$1.00

Plant in drills ¾ to 1 bushel; broadcast, 1 to 1½ bushels to the acre.

# COWS 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 1½ to 1¾ 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 requires 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 1½ 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

**California Golden.** A strong growing variety, much resembling the Evergreen, but longer brush, and a bright golden color when ripe . . . . . \$2.50 bushel

### SPRING WHEAT AND BARLEY.

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 . . . . . \$1.50 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.; 10 lbs. 50c; 100 lbs. \$3.50.

**TEOSINTE.** (Reana 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 ¾ to 1 bushel per acre.

**FLAX SEED.** Northwestern Sow at rate of ¾ 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 stooler and a robust grower. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs. per acre. . . . . 5c lb.; 30c for 10 lbs.; \$1.15 for 50 lbs.; \$2.00 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 40 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 form ¾ to 1 bushel to the acre.

**Japanese.** This new 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. . . . . 35c pk.; \$1.10 bu.

**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.		Per lb.		Per lb.
Black Locust	.35c	Fennel Seed	.15c	Mustard Seed, crushed	.10c
Honey Locust	.35c	Flax Seed (3 lbs. 25c)	.10c	Mustard Seed, black	.10c
Castor Beans	.20c	Flax Seed (crushed)	.10c	Osage Orange—Bois D'Arc	.35c
Canary Seed (3 lbs 25c)	.10c	Hemp Seed (3 lbs. 25c)	.10c	Pumpkin Seed	.15c
Mixed Bird Seed (3 lbs. 25c)	.10c	Lettuce Seed, for birds	.20c	Rape Seed (3 lbs. 25c)	.10c
Caraway Seed	.15c	Maw or Poppy Seed	.15c	Rough Rice, for Red Birds	.10c
Coriander Seed	.15c	Millet, for Birds	.5c	Sunflower Seed (4 lbs. 25c)	.10c
Celery Seed, for flavoring	.15c	Millet, Pearl	.10c	Watermelon Seed	.15c
Cotton Seed	.20c	Mustard Seed, white, for pickles	.10c	Bird Gravel (3lbs. pkg.)	.10c
Cattle Bone (1 oz. 5c)	.30c				

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, 18c Each. Ten Cents Per Pound Extra if Sent by Mail.

# NORTHERN GROWN SEED CORN.

Prices subject to market changes. Seamless Bags holding 2 Bushels, 18c each extra.

Our seed corn has been grown for us by specialists, and will be found 1 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.; \$1.10 bu.

**Iowa 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. 35c pk.; \$1.05 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 out-yield any corn in the world  
40c pk.; \$1.10 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.; \$1.10 bu.

**Leaming Yellow.** Ears of good size, cob red and small. A strong grower, and very prolific. . . . . 35c pk.; \$1.00 bu.

**Hickory King.** A distinct White Dent Field Corn. The stalks are strong, and bear two and occasionally three ears; the cob is remarkably small. It is very productive and of good quality  
40c pk.; \$1.25 bu.

**Blunt's Prolific:** A prolific white variety, producing four medium sized well-filled ears to the stalk. . . . . 40c pk.; \$1.20 bu.

**Longfellow.** A popular and well-known yellow, eight-rowed Flint variety. Ears from 10 to 12 inches in length, very early and an abundant yielder. . . . . 40c 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 . . . . . 90c bu.; \$8.50 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 . . . . . 40c pk.; \$1.35 bu.

## SELECTED SEED POTATOES, (Kartoffel, Ger.)

Warning; 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 1/4 bushels each. No charge for Barrels. Bags, 10c each.

**Bovee.** Extra early, very productive, of fine quality. Flesh white and very dry . . . . . 30c pk.; \$1.10 bu.; \$3.00 bbl.

**Early Six Weeks.** Extra early, oblong in shape; flesh solid; cooks dry and mealy . . . . . 40c pk.; \$1.30 bu.; \$3.60 bbl.

**Triumph.** Extra early, fine bright red skin, white flesh.  
35c pk.; \$1.15 bu.; \$3.25 bbl.

**Early Ohio.** (Red River Stock.) A week earlier than Early Rose. Cooks dry and mealy. 35c pk.; \$1.20 bu.; \$3.25 bbl.

**Early Rose.** The leading variety for earliness and productiveness . . . . . 35c pk.; \$1.25 bu.; \$3.40 bbl.

**Early Beauty of Hebron.** Ripens with the Early Rose; valuable market variety . . . . . 30c pk.; \$1.00 bu.; \$2.85 bbl.

**Burbank's.** Flesh fine grained and of excellent flavor; very productive . . . . . 30c pk.; 85c bu.; \$2.50 bbl.

**Chicago Market.** Very popular, early, good quality and yields well. . . . . 30c pk.; \$1.00 bu.; \$2.85 bbl.

**White Star.** A large cropper, fine floury texture and delicious flavor . . . . . 30c pk.; 90c bu.; \$2.65 bbl.

**White Elephant.** Late, large, enormously productive, and of excellent flavor . . . . . 30c pk.; \$1.00 bu.; \$2.85 bbl.

**Maggie Murphy.** A first-class late variety, good size and yielder.  
30c pk.; \$1.00 bu.; \$2.85 bbl.

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

**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.

## Seeds of Root Crops for Stock.

### 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 2 feet apart.

**Prize Mammoth Long Red.** Roots of large size and excellent quality . . . . . 15c 1/4 lb.; 30c lb.; \$2.25 for 10 lbs.

**Yellow Globe.** Of large size and globular form; very productive . . . . . 15c 1/4 lb.; 30c lb.; \$2.25 for 10 lbs.

**Red Globe.** Large, red, oval; keeps well; large crops on shallow soil . . . . . 15c 1/4 lb.; 30c lb.; \$2.25 for 10 lbs.

**Golden Tankard.** Bright yellow, large, handsome, heavy cropper, splendid quality. . . . . 15c 1/4 lb.; 30c lb.; \$2.25 for 10 lbs.

### SUGAR BEET.

Are not as heavy yielders as Mangels, but superior quality, containing a large amount of saccharine matter; thousands of acres are planted with Sugar Beets for manufacturing sugar. Excellent for feeding cows, improving quality and quantity 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 1/4 lb.; 30c lb.; \$2.50 for 10 lbs.

**Lane's Imperial.** One of the best for field culture; early, large and productive. . . . . 15c 1/4 lb.; 30c lb.; \$2.50 for 10 lbs.

**TABLE BEETS**—See page 13. **CARROTS**—See page 16. **TURNIP**—See page 33.

The J. M. McCullough's Sons Co., Cincinnati, O.; Wynne, Ark., Sept. 19, 1905.  
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, M. COLLINS.

# FERTILIZERS.

## EL PASO SHEEP MANURE.

This is a pure, natural manure, and a nutritious food for plants. Its effect is immediate. It is 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 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.  
Not Pulverized 100 lbs. \$1.50; per ton, \$25.00.

## BONE FLOUR OR DUST.

This is ground very fine decomposes more rapidly in the soil than the coarser grades and is therefore more quickly beneficial. Per lb., 5c; 10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$3.00.

## PURE BONE MEAL.

Finely pulverized, ground bone, is excellent for rose culture and lawns. It decomposes rapidly, and is more effective than the coarser grade. It is excellent for mixing 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.

## EXCELSIOR PLANT FOOD.

This is a most useful fertilizer for all kinds of plants raised in pots. It produces a rapid and vigorous growth and an abundance of flowers. Odorless, and takes the place of liquid manure. Drives insects out of the soil.

Package, containing food for 20 plants for 3 months, 15c; 3 for 40c; if by mail, add 8c per pkg.

Large pkg., containing sufficient plant food for 20 plants for one year, 25c; 3 for 65c; if by mail, add 18c per pkg.

Each package contains full directions.

## STERLINGWORTH PLANT FOOD TABLETS.

Contain Nitrogen, Ammonia, Phosphoric Acid and Potash. A New Scientific, Odorless, Concentrated Fertilizer for Potted Plants and Vegetables.

Takes the place of liquid manure. Used by dissolving in water. By being wholly soluble they start the plants at once into healthy vigorous growth and make them grow and bloom luxuriantly. These Tablets drive troublesome insects and worms from the soil.

They are odorless, non-poisonous, uninjurious and are clean and easy to handle, and owing to their concentrated form are far superior to other plant fertilizers. If your plants are not doing well, try Sterlingworth Plant Food Tablets, and see how quickly they are benefited.

Trial size box, sufficient for 10 house plants for 3 months 10 cents, post paid. Regular size box, sufficient for 35 plants for 3 months, 25 cents, post paid.

## 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
Total Phosphoric Acid.....	8	10
Available Phosphoric Acid.....	6	8
Water Soluble Phosphoric Acid.....	4	6
Potash (k 2 o).....	2	3

5 lbs., 25c; 100 lbs., \$2.00; 200-lb. bag, \$3.00; half ton, \$13.00 per ton, \$24.00.]

## PACIFIC NOBSQUE GUANO.

For several years we have been handling Nobsque Guano, and the universal verdict from all who use it is "It is the best fertilizer we have ever used."

ANALYSIS.—Ammonia.....	1 1/4 to	2 1/4	Per ct.
Available Phos. Acid.....	8	10	" "
Po ash (k 2 o).....	2	3	" "

Per lb., 10c; 5 lbs., 25c; 25 lbs., 75c; 100 lbs., \$2.00; per bag, 200 lbs. \$3.00; per half ton, \$13.00; per ton, \$24.00.

## ASHES.—Canada 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.

## 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, \$1.10; 600 lbs. or more 50c per 100 lbs.

## FERTILIZER INGREDIENTS.

**Nitrate of Soda.** A natural product of the mines of Chili, South America. Contains 16 per cent. Nitrogen, equal to 20 per cent. Ammonia. Send for special pamphlet giving full directions for use. . . . . 5c per lbs.; \$4.00 per 100 lbs.

**Kainit.** A natura product of the mines of Germany, containing nearly 13 per cent. pure Potash, also a large percentage of Magnesia sulphate of Lima and Salt. Mixed with stable manure, 1 1/2 pounds per day for each animal, will double the value of the manure, by preventing the waste of the Nitrogen-Ammonia. Use 400 lbs. per acre. Kainit is put up in 200-lb. bags only. Price per bag, \$2.25; 5 bags or more, \$2.00 per bag, or \$19.00 per ton.

**Mineral Phosphate.** A highly concentrated phosphate. Contains from 33 to 43 per cent. of available Phosphoric Acid. Use 50 to 60 pounds per acre. . . . . Price, \$3.50 per 100 lbs.

**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., \$1.00; 50 lbs., \$1.75; 100 lbs \$3.00

## NITRO-CULTURE. The Vest Pocket Fertilizer.

What NITRO-CULTURE Is—NITRO-CULTURE consists of nitrogen collecting Bacteria, which work in the soil and on the roots of leguminous plants, having the power to collect free nitrogen from the air and supply it to the plants. All plants need nitrogen, which is very costly when obtained by chemical process. The remarkable increase of crop frequently reported and caused by inoculations is due wholly to the large amount of nitrogen collected from the air by the Bacteria.

**Method of Using**—The Bacteria are furnished dried on absorbent cotton, and can be readily forwarded by mail to any section of the country. Full directions accompany each package, which no farmer can have any difficulty in following out.

**Value as Soil Renovator**—It has been ascertained from the most reliable sources that the average inoculated leguminous crops, such as Clover, Alfalfa, Vetch, Peas, Beans, etc., will not only under ordinary conditions show an increase of crop, but also that the Bacteria will collect the air and leave in the soil at the end of the season after the crop is harvested not less than 100 pounds of nitrogen per acre. This nitrogen at present market prices would be worth \$15.00 and upwards per acre, and would show a corresponding increase in the next succeeding crop, no matter what it may be.

**Increase of Crop**—It would be impossible for us to estimate what the increase caused by inoculation might be. Conditions vary in different sections. In some cases increases are reported to be very great, crops like Alfalfa, Clover, Vetch, Peas, Beans, etc., having been made to grow in sections where they had never been successfully grown before. We, therefore, advise on customers to try the experiment and ascertain the true value of Nitro-Culture on their respective soils.

**ALFALFA**—By means of inoculation with Nitro-Culture, Alfalfa is now being successfully grown from the Atlantic to the Pacific and from Canada to the Gulf.

**Acid Soil**—It should be remembered that there are certain unusual conditions of the soil which will prevent the profitable growth of any crop. The use of Nitro-Culture is not, of course, designed to overcome such difficulties, although there is no doubt but that under these circumstances an inoculated crop will produce better results than uninoculated. If you are sure that the right Bacteria are already in your soil, inoculation is not necessary

## PRICE-LIST.

Trial Package.....	\$0 50	20-acre Package.....	\$18 00
1-acre Package.....	1 50	50-acre Package.....	40 00
5-acre Package.....	5 00		

Special Garden Size Packages—Sweet Peas, 25c; Garden Beans, 25c; Garden Peas, 25c.

When ordering, state what particular crop you desire to inoculate.

- |   |     |                           |
|---|-----|---------------------------|
| 1. Alfalfa or Lucerne.                      | 8.  | Garden Beans Wax, String, |
| 2. Red, Yellow or Mammoth Clover.           | 9.  | Lima Pea or Kidney.       |
| 3. Alsike or White Clover.                  | 10. | Soy Beans.                |
| 4. Crimson Clover.                          | 11. | Velvet Beans.             |
| 5. Burr Clover.                             | 12. | Vetch.                    |
| 6. Cow, Clay, Whip-O'-Will, Black Eye Peas. | 13. | Peanuts.                  |
| 7. Garden Peas.                             | 14. | Field Peas.               |
|   |     | Sweet Peas.               |

**NITRO-CULTURE** cannot be furnished for any crops like corn, wheat, potatoes, cotton, etc., but only those which are mentioned on the above price list. Inoculated clover may be planted with oats or other crops, and we have reason to believe that they will be benefited.

## 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.** Fibrous and rotted. Per bushel \$1.25; per bbl. \$2.75.  
**Potting Soil.** This is a mixture specially prepared by us, and such as used at our own Greenhouses. It is suitable for all ordinary plants and bulbs. Peck 25c; bushel 75c; barrel \$1.50

# Insecticides and Fungicides.

**APHIS PUNK**, is a soft paper saturated with nicotine, rolled and dried. When lighted it burns slowly. For "smoking" conservatories, etc. per box of 12 rolls 60 cts., or by mail 70c

**BORDEAUX MIXTURE (Liquid)**. An indispensable fungicide. Ready for use by simply adding water. One gallon will make 50 gallons spraying liquid ..... 1 qt. 40c; 1 gal. \$1.00

**BORDEAUX MIXTURE (Dry)**. A fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. 1 lb. will make 5 gal. spraying liquid ..... 6 lbs. bag, 45c; 10 lb bag, 70c

**COPPERINE**. (Paste.) Ammoniacal solution of carbonate of copper. Remedy against fungus, mildew, rust and black rot. lb. 25c; (makes 15 gal. liquid); 5 lbs. \$1.00.

**COPPER SULPHATE**. For early spraying and making Bordeaux mixture ..... per lb. 10c.; 10 lbs. \$80c

**DISPARENE**. (Arsenate of lead.) For destruction of leaf eating insects. 2 lb. 50c; 5 lb. \$1.00; 10 lbs \$1.80; 25c \$4.25; 50 lbs. \$8.00; 100 lbs. \$15.00.

**ELECTRIC WORM ERADICATOR**. For the instantaneous extermination of Worms of every sort. This scientific preparation is specially valuable to fruit, vegetable and mushroom growers, as by its use it entirely prevents the ravages of Worms, Insects, etc. It will be found exceedingly effective and quite harmless to fruit, flowers, grasses, etc.  
Small bottle, 50c; large bottle, \$1.00

**FIR TREE OIL**. It frees 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 pint, 50c; pint, 75c; quart, \$1.25

**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., 15c; 1 lb. 25c

**HERBICIDE OR WEED EXTERMINATOR**. An effectual weed killer. It completely destroys all weeds wherever applied, and by its effect on the ground prevents the growth of fresh ones. Not injurious to marble or stonework of any kind, and it leaves the gravel paths and roads clean and bright.  
1 qt., 50c; ½ gal., 80c; 1 gal. \$1.50

**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, aphids, green fly, mealy bug, also for insects on fruit trees.  
1 qt., 40c; gal \$1.00

**KILL-O-SCALE**. A perfect remedy against San Jose Scale. One gallon will make 25 gallons spraying liquid.  
½ gal. 85c; 1 gal. \$1.50; 5 gal. \$6.25

**LIME (CONE'S PREPARED)**. It is thoroughly slacked; will not heat, swell or change, and is ready for immediate use for all purposes ..... 3 lb. pkg., 10c

**NAPCREOL**. A famous cold water sheep dip and unexcelled for skin diseases, killing animal parasites, mixing with white-wash for trees, chicken kennels, etc. ½ gal., 85c; 1 gal., \$1.50

**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. ½ pint, 50c; pint, \$1.50; ½ gal., \$5.50; gal., \$10.50.

**NICOTICIDE 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.  
Fumigator Pan and Lamp, 60c each.

**PARIS GREEN**. Warranted strictly pure, ..... per lb. 40c

**PERSIAN INSECT POWDER**. For worms, flies, aphids, and almost all kinds of insects. .... 1 lb., 15c; 1 lb., 50c

**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 any kind of water.

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.

1 qt., 35c; ½ gal., 65c; 1 gal. \$1.00; 5 gal., \$3.75

**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 Bug, Rose Slugs, Rose Lice, etc.

Per lb., 10c; 5 lbs., 30c; 10 lbs., 50c

**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.

**SULPHUR POWDERED**. Used to prevent and cure mildew on plants. .... 10c lb., 2 lbs., 15c; 5 lbs., 35c; 10 lbs 60c

**TOBACCO DUST**. A sure remedy for Green Fly, Aphis, Fleas, Beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. .... 5 lb., 25c; 100 lbs., \$3.00

**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. May be applied in powder or liquid form. If put on in powder the foliage should be wet, if in liquid, the foliage should be dry ..... 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. Pint, 30c; qt, 50c; gal. \$1.50; 5 gal., \$5.00

**TOBACCO SOAP, PINNER'S**. Manufactured from the essential oil of Tobacco, for the destruction of all insects, parasites and their eggs ..... ½ lb., 25c; 1 lb., 40c

**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, Bores 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

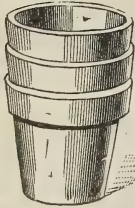
**TREE PAINT OTWELL'S**. For winter use. The best preparation for protecting fruit trees against rabbits, mice and vermin of all kinds. Puts the trees in the very brightest, healthiest growing condition ..... ½ gal., 60c; 1 gal., \$1.00

**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

**WHALE 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 to 50 lbs., 12½ per lb., 50 lbs. or over, 9c lb.

# 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.

EACH. DOZ. PER 100				EACH. DOZ. PER 100.				EACH. DOZ.		
2-inch..	2c	15c	\$0 80	5-inch.....	5c	40c	\$ 3 00	10-inch.....	25c	\$ 2 50
2½ " ..	2c	20c	1 00	6 " ..	6c	60c	4 50	12 " ..	40c	4 50
3 " ..	3c	25c	1 25	7 " ..	8c	90c	7 00	14 " ..	90c	9 50
3½ " ..	3c	25c	1 50	8 " ..	12c	\$1.25	9 00	16 " ..	\$1.50	17 00
4 " ..	5c	30c	2 00	9 " ..	15c	1.75	14 00			

## FLOWER POT SAUCERS.

EACH. DOZ. PER 100.			EACH. DOZ. PER 100.			EACH. PER 100				
4-inch.....	3c	25c	\$1 75	7-inch.....	5c	50c	\$3 50	10-inch.....	12c	\$1 00
5 " ..	3c	30c	2 25	8 " ..	7c	70c	5 00	12 " ..	15c	1 50
6 " ..	4c	40c	2 75	9 " ..	10c	90c	6 50			

## AZALEA FLOWER POTS.

These are the same style as our standard Flower Pots, but not so deep. Suitable for Azaleas, Bulbs, Ferns, Spireas, etc.

EACH. DOZ. PER 100.			EACH. DOZ. PER 100.			EACH. DOZ.		
5-inch.....	8c	\$0 60	7-inch.....	12c	\$1 25	10-inch.....	25c	\$2 50
6 " ..	10c	70	8 " ..	15c	1 60	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.

EACH. DOZ. PER 100.			EACH. DOZ. PER 100.			EACH. DOZ.		
5-inch.....	5c	\$0 50	7-inch.....	8c	\$0 90	10-inch.....	25c	\$2 50
6 " ..	6c	65	8 " ..	12c	1 25	12 " ..	35c	3 50

## FERN PANS.

These Pans are especially adapted for linings to Porcelain and Silver Fern Pans.

EACH. DOZ. PER 100.			EACH. DOZ. PER 100.			EACH. DOZ.		
5½-inch.....	6c	\$0 60	7-inch.....	10c	\$1 00	9-inch.....	15c	\$1 60
6½ " ..	7c	80	8 " ..	12c	1 30	10 " ..	20c	2 00

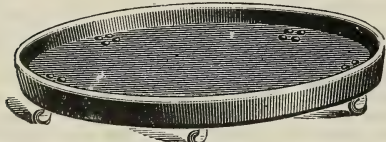
## FIBROTTA SAUCERS.

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.

4 inch.....	Each, 8c	Doz., \$0 90	10 inch.....	Each, 15c	Doz., \$1 40
5 " ..	" 9c	" 95	12 " ..	" 18c	" 1 70
6 " ..	" 10c	" 1 00	14 " ..	" 20c	" 2 00
7 " ..	" 12c	" 1 10	16 " ..	" 35c	" 4 00
8 " ..	" 12c	" 1 20	18 " ..	" 40c	" 4 50



Fibrotta Saucers.



Fibrotta Rolling Stand.

## Fibrotta Rolling Stands.

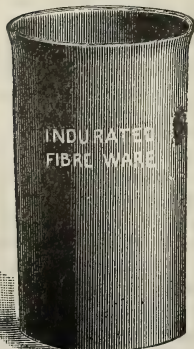
For heavy plants and Palms; will not soak or rust. Casters have ball bearings and have hardwood rollers. Rolling stands all have heavy deep saucers and will carry all the weight usually put in large pots for Palms, Rubber Plants.

12 inches diameter, 3 Casters.....	50c	18 inches diameter, 4 Casters.....	\$0 90
14 " " " 3 " ..	60c	" " " 4 " ..	1 00
16 " " " 4 " ..	75c	" " " 4 " ..	1 25

## FLORISTS' VASES FOR DISPLAYING CUT FLOWERS.

Indurated Fibre Florists' 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.		Enameled Green.	
			Each.	Per dozen.	Each.	Per dozen.
0	8	13	\$0 40	\$ 4 80	\$0 60	\$ 7 20
1	5½	10	35	4 20	45	5 40
2	4½	9	30	3 60	40	4 80
3	4	6	25	3 00	30	3 60
4	3	4½	20	2 40	25	3 00
00	9	22	75	9 00	1 00	12 00
11	5½	18	40	4 80	60	6 60
22	4½	15	35	4 20	45	5 40
33	4	12	30	3 60	40	4 80
44	3	9	25	3 00	35	4 20
000	9	29	1 50	18 00	2 00	24 00

Get our estimates. They cost you nothing, and may result in saving time, expense and annoyance.



Columbia Plant Tub.

### Columbia Plant Tub.

This Plant Tub is made of the best cypress lumber, which will keep for years without rotting. They are made of twelve staves in tapered shape, held together by two heavy steel wires, which are connected with substantial iron handles, and are so arranged that the wire can be tightened or loosened by simply turning nut on handle.

12 inches diameter, 11 inches high	.....	\$1 00
15 " " 14 " "	.....	1 50
18 " " 16½ " "	.....	2 00
21 " " 18½ " "	.....	2 50
24 " " 20½ " "	.....	3 00



Union Plant Tub:

### Union Plant Tub.

An excellent new tub, cheap, neat and durable. Made from ¾ inch Cypress, with iron handles, iron feet, 3 iron hoops and 2 coats of green paint.

No. 1. 13½ inches diameter, 12 inches high	.....	\$1 00
No. 2. 14½ " " 14 " "	.....	1 25
No. 3. 16 " " 16 " "	.....	1 50
No. 4. 21 " " 18 " "	.....	2 00
No. 5. 24½ " " 20 " "	.....	3 00
No. 6. 25½ " " 22 " "	.....	4 00

### Fibrotta Plant Tub.

Plant Tubs of Indurated Fibre Ware are useful in Parlors, Corridors, Hotel Lobbies, etc. Drainage holes in the bottom prevent the 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.

	Plain Brown.	Enameled Green.		Plain Brown.	Enameled Green.
10 in. Pot and Saucer	... \$0 45	\$0 75	14 in. Pot and Saucer	... \$1 00	\$1 45
12 in. " " "	.... 60	1 00	18 in. " " "	.... 3 40	4 00



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.

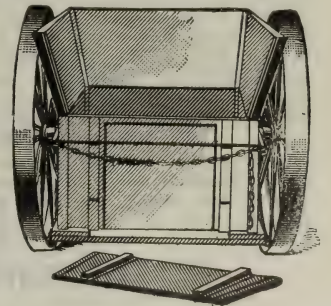
No. 1—4 arms, 6 feet long, 100 feet line, wood post	.....	\$ 6 50
No. 3—5 arms, 7 feet long, 150 feet line, wood post	.....	8 50
No. 3—5 arms, 7 feet long, 150 feet line, steel post	.....	10 00

### 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 28x32 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	.....	1½ in. Tires.	.....	3 in. Tires.
No. 2—With detachable box	.....	\$ 8 00	.....	\$10 00
No. 3—With Flaring Hopper sides, steel wheels	.....	10 00	.....	12 00
		12 00	.....	14 00

# 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.

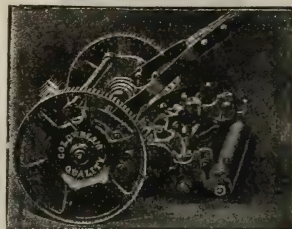
## Goldwell's Quality Ball-Bearing.

Guaranteed to be the latest and best Lawn Mower made. The drive wheels of Coldwell's Quality 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 Quality 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.)

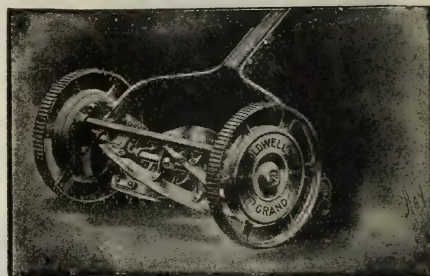
The stationery knife of Coldwell's Quality mower is channel shape, being double edged and reversible, which not only prevents its springing or saging, but also provides it with two cutting edges. When one edge is worn down, it can be reversed. Another important feature of this channel shaped knife over 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., \$8.25; 18 in., \$9.25; 20 in., \$10.00.



## Coldwell Grand Ball Bearing

This is a strictly high grade Ball-Bearing Lawn Mower made 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 shaft  $\frac{3}{8}$  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.

COLDWELL'S IMPERIAL LOW WHEEL. 14 in., \$6.00.  
CADET. 14 in., \$2.75; 16 in., \$3.00.

## COLDWELL IMPROVED HORSE LAWN MOWER.

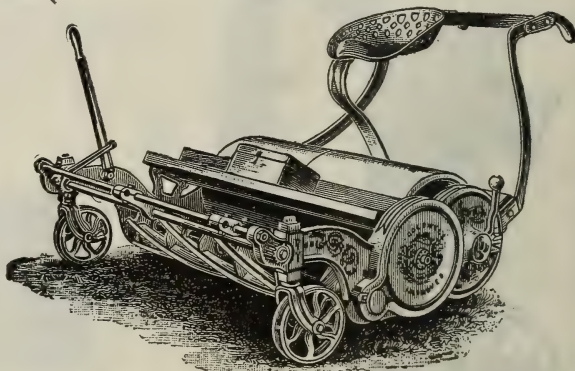
This well-known standard Mower has side draft attachments, to enable the horse to walk on the cut grass only, and castor rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same 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 PRUCHASER.

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



## GENUINE PHILADELPHIA LAWN MOWER.

The Philadelphia Lawn Mower has stood the test for years, and is still acknowledged to be one of the best and a strictly High-Grade Mower.

Style K—5 blades, 10-inch wheel, 6 $\frac{1}{2}$ -inch cylinder, Single Pinion, geared on both sides. The great diameter of cylinder, with five blades, insure fine cut, and, with its large driving wheels, is light running. 14-in., \$6.75; 16-in., \$7.25; 18 in., \$8.00; 20-in., \$8.75.

Style C—4 blades, 8 $\frac{1}{2}$ -inch wheel, 5 $\frac{1}{2}$ -inch cylinder, This style medium high wheel is to supply a demand for a mower which has real merits, and is light running, durable and easy to handle. 14-in., \$5.75; 16-in., \$6.25; 18-in., \$ 7.00

Style M—3 blades, 7-inch wheel, 5 $\frac{1}{2}$ -inch solid cylinder, with blades bolted on. This is the original Philadelphia 1870 pattern mower, and for general purposes is very popular, adapted for rough as well as smooth lawns.

14-in., \$5.75; 16-in., \$6.25; 18-in., \$7.00



# LAWN REQUISITES.

## CHAMPION LAWN ROLLERS.

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 cylinders of sections are clean, smooth castings, made to run close together, and yet revolve independently, thus doing better work. Weights are attached to the axle to balance the handle and hold it up.

No. 1—2-Section, 15 in., long and 15 in., in diameter, weight about 125 lbs ..... \$6.00  
 No. 2—2-Section 24 in., long and 20 in., in diameter, weight about 300 lbs ..... \$11.50

No. 3—2-Section, 24 in., long and 24 in., in diameter, weight about 375 lbs ..... \$14.00

No. 4—3-Section, 36 in., long and 20 in., in diameter, weight about 440 lbs ..... \$16.00

**DUNHAM LAWN ROLLER.** This roller is made in one and two sections; we can furnish extra weights which is attached to axle with set screws

2 Section 24 in., long and 20 in., in diameter weight about 225 lbs ..... \$9.00

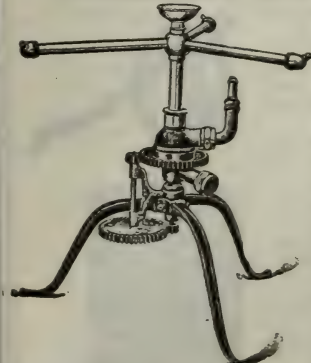
**ONE HORSE LAWN ROLLERS.** With steel frame.

2-Section 4 feet long and 20 in., in diameter, weight about 400 lbs ..... \$23.00

2-Section, 6 feet long and 24 in., in diameter, weight about 550 lbs ..... \$26.00

**ONE HORSE ROLLERS.** Have weight boxes, for carrying added weights.

## TWIN COMET LAWN SPRINKLER.



With an ordinary pressure of water, 30 pounds or upwards, it will thoroughly sprinkle an area of 80 feet in diameter. The nozzle and tips on end of arms are adjustable, and can be set so as to sprinkle any desired space, or the nozzle can be set perpendicular to send the water upwards in a straight stream like a fountain, perforated disc or rosette can be attached in place of the nozzle tip, discharging, instead of a solid stream, a fine mist and when set upright and tips on the arms turned down to a level or lower, it will sprinkle as small a space as desired. With the exception of the legs, all parts are of solid brass, heavily nickeled. Will sprinkle four times greater area than any other sprinkler made. Price, \$5.00.

## No. 1 CENTURY LAWN SPRINKLER.



Will cover with a beautiful revolving spray, an area of from three feet to fifty feet in diameter, and with an equal distribution of water.

Is mounted, with wheels on a wide base, and may be drawn about from place to place without turning off the pressure and without danger of upsetting.

It is made with a bearing that prevents clogging and that allows it to operate under any water pressure.

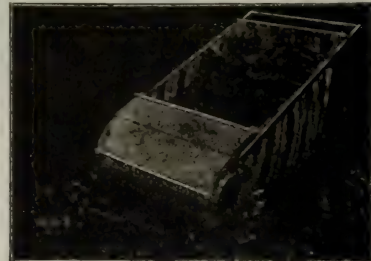
Any back pressure on the hose is relieved, thus saving wear and tear, which will in a season compensate for the investment Price, \$1.50



**No. 2, New Century Lawn Sprinkler.** with our new ball spray device. This is novel and very efficient, giving a spray superior to that of any other pattern that even approximates the price. Very durable and cannot clog. Price 50 Cents.

## 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. A strong current of air, created by a rapidly revolving fan with metal teeth, is the principle by which this machine cleans a lawn. The metal teeth rake up everything on the surface of the lawn

and, in combination with the current of air, carry it to the canvas basket, which is easily emptied when full. In the autumn it takes up the heaviest fall of leaves so well that many buy just at the close of the season. It is made of metal, wood and canvas, and is put together in the most durable and thorough manner. This combination makes it lighter and less noisy than all metal. It combines strength and durability with light construction. \$15 00

## 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 King.** Made of best hickory, 22 teeth ..... 35  
**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. \$8.00

## HOSE RUBBER

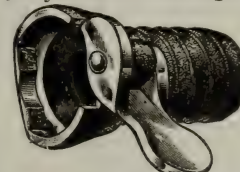
—In 50-Foot Lengths.

Standard Grade, 3-ply, 1/2 inch	Per foot.	12c
Standard Grade, 4-ply, 1/2 inch	"	14c
Standard Grade, 3-ply, 3/4 inch	"	10c
High Grade, 3-ply, 3/4 inch	"	14c
High Grade, 4-ply, 3/4 inch	"	16c
Hose Reel, Wooden		\$0 75
" Iron		2 25

Nozzle—Gem. Throwing all variations from fine spray to stream for 1/2-inch hose ..... 50c  
 Menders. Iron ..... 5c each, 50c doz.  
 " Wooden ..... 3c each, 25c doz.  
 Couplings ..... 10c each, \$1.00 doz.  
 " Bands, Sherman single ..... 5c each, 50c doz.  
 " double ..... 10c each, \$1.00 doz.

## ACME HOSE COUPLER—Absolutely Water-Tight.

Instantaneous in operation. No thread to get out of order. Nothing to get damaged or broken. Two positive motions and you have a water-tight joint.



No. 1.



No. 2

No. 1—Goes on end of hose that attaches to either faucet or ground pipe. It is used with No. 2, for connecting two lengths of hose. 20c each, \$2.00 doz.

No. 2—Used on nozzle end of hose and can be connected with any nozzle by using No. 4, as an intermediate. Used with No. 1, for connecting two lengths of hose. 10c each, \$1.00 doz.

No. 3—Screws on faucet, ground pipe or hose crook, on any of which it may be left permanently, and to it the hose is readily attached by the lever connections. No. 1 or 4 ..... 10c each, \$1.00 doz.

No. 4—Screws into old style couplings on hose and attaches to Nos. 2 and 3. Used as an intermediate for connecting nozzle to No. 2 or 3 20c each, \$2.00 doz.

**SPRAYING PUMPS AND APPLIANCES.**



Aquapult.



Little Giant



Lever Bucket.



Imp. Barrel.



O. K. Spray Pump.

- 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 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 be easily taken out and repaired. It is fitted for two strings of discharge Hose, Pump only, . . . . . \$12.00, 2 Sets of connections per Set. . . . . 50 cents, 2 nozzles . . . . . 75 cents each, Hose . . . . . 12 cents per foot.
- "—IMPROVED BARREL BRASS SPRAY. With 5 feet 1/2 inch discharge hose, and vermored graduating nozzle. . . . . \$6 00
  - "—LEVER BUCKET, BRASS SPRAY. Fine, coarse and solid stream nozzle, with malleable iron foot rest. . . . . \$4 00
  - "—LITTLE GIANT BRASS. Fine, coarse and solid stream nozzle, with malleable foot rest. . . . . \$2 75
  - Four-foot pipe extension, each. . . . . \$0 25
  - "—AQUAPULT. Brass, with stream and spray nozzle. . . . . \$4 00

**Auto Compressed Air Spray.**

Will not get out of order. Can be suspended from the shoulder thus allowing the free use of the arms.

A few strokes of plunger in air chamber will compress enough air to discharge the tire contents and make a continuous spray for nine minutes.

- Brass Tank, with Stop Cock. . . . . \$6 00
- Galvanized Steel Tank, with Stop Cock . . . . . \$5 00
- Extension Pipes, 2 foot lengths, Brass. . . . . Each 35c

**LOWELL FOUNTAIN COMPRESSED AIR SPRAY.** No complicated parts to get out of order; does not require constant pumping. One charge sufficient to expell entire contents of tank. Has an Automatic thumb lever valve shuts off instantly. No packing or springs to wear out in the valve, all working parts made of hard brass casting.

- Galvanized Steel Tanks. . . . . \$5 00 | Brass Tank. . . . . \$7 00

**Auto-Spray No. 3.**

**Whitewashing and General Purpose Sprayer.** WONDERFUL POWER AND CAPACITY.

Tank extra heavy galvanized steel; holds eight gallons and has reinforced cover. Pump all brass but handle fittings. Cylinders extra heavy 1 1/2 inches in diameter, brass ball valves and three ply hose.

3-b Pump galvanized tank, 8 feet 3 ply hose, 8 feet iron extension pipe and vermored nozzle \$12 00

**TORCH FOR "AUTO-SPRAY."**

This torch can only be used with the Auto-Spray. It is effective in burning worms and nests. \$1 00

**LENOX KNAPSACK SPRAYER.**

For Garden, Field and Small Fruit Culture. Spray as fast as you walk. No waste. Spray stops by releasing the pressure of the thumb. Has an agitator on left side to stir the liquid. Price \$2.50 Each.

Extra Tube, Rubber bulb and rose to work with both hands, \$1.50. Rubber bulbs, 25c each.

**The Utica Sprayer.**

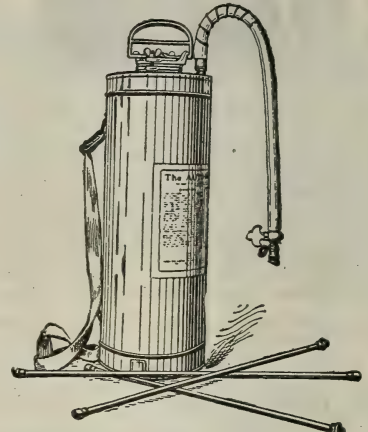
Gives a long easy stroke that supports a fine misty spray of full volume. Plunger rods heavy. Best calf leather reinforced with spring valve spreader, and strongly made in every part.

No 7, brass tanks, 1 1/2 quart . . . . . 75c

**GLASS TANK SPRAYER.** A perfectly DRY PUMP—when plunger is drawn back no solution is sucked back into pump cylinder; this leaves VALVES always DRY and PLIABLE and ready for use, pump cylinder being six inches longer than any other make allows operator to stand up straight and gives no backaches. Will spray up as well as down . . . . . 75c

**TIN TANK SPRAYER.** Only high grade material used in construction. Strong, durable and satisfactory . . . . . 50c

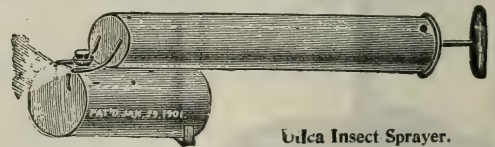
**DRY POWDER SPRAYER.** The powder can holds one quart. . . . . 75c



Auto-Spray, Compressed Air.



Auto-Spray No. 3-b.

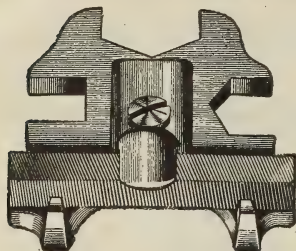


Utica Insect Sprayer.





HORTICULTURAL TOOLS AND SUNDRIES. Continued.



Royal Lawn Mower Sharpener and Wrench. A Practical, Perfect Device for Sharpening any make of Mower. The Blades are Sharpened Quickly to any required Bevel. An ADJUSTABLE, perfect, durable tool, having eight (8) sharpening cutting surfaces, sharpener and three (3) nut wrench combined. Light, and unobtrusive. The

sharpener in this tool is made from highest grade crucible steel, tempered specially for the purpose. Nickel-Plated. Price, 75c

Mattock, Long Cutter. With handle. 75c

Mattock, Cronk's Garden. 50c

Mastica. For glazing green houses. The use of Mastica avoids the necessity of repeatedly reglazing the house, saving much time and expense. With Mastica can bed in or use outside, with a machine. Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 300 running feet (one side.)

1-gallon. \$0 70  
1-gallon. 1 25

Mastica Glazing Machine. See cut \$1 25

Mole Trap—Reddick. The best trap on the market. No mole can pass under this trap and live. 75c

Mole Trap—Isbell. 50c  
—English. 40c

Oil, Lawn Mower. This is a handy can filled with fine oil, manufactured expressly for lawn mowers, bicycles, etc. per can 15c

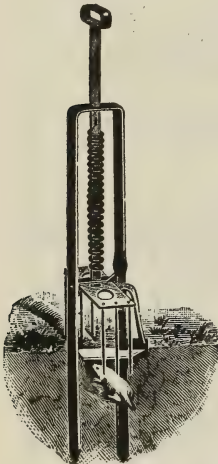
Pliers Wire. For cutting wire. 40c

Pot Hangers. Wire for 5, 6, 7 and 8 inch Pots. 5c each; 50c doz

Potato Hooks. 4 line. 50c

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.

Mastica Machine.

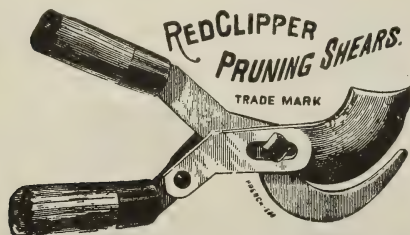


Plant Bed Cloth—Light Grade. Per yard. \$0 06  
—Medium Grade. Per yard. 10  
—Heavy Grade. Per yard. 12

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 power-

ful 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. 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

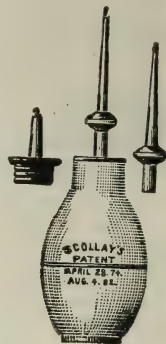
Putty—Twemlow's Liquid Glazing. For bedding glass in sash or for filling cracks or seams in roof joints or frames of green houses or hot beds. It makes a solid bed, impervious to moisture and holds glass in its place, and will stop any crevice or fault. It is applied with machine, bulb or brush. One gallon will cover about 600 running feet (one side.)

Gallon. \$1 25

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.	1/2 lb.	1 lb.	No.	Oz.	1/2 lb.	1 lb.
1	10c	35c	\$1 25	4	7c	25c	75c
2	8c	30c	1 00	5	6c	20c	60c
3	7c	25c	75				

If by mail add 2c per oz.; 5c for 1/2 lb.; 15c per 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

If by mail add, 1c per yard for postage.

Rakes—Steel Garden. 8 teeth 35c; 10 teeth, 40c; 12 teeth, 45c; 14 teeth 50c; 16 teeth, 55c.

—English Daisy. For ruffling over lawns tearing off, Daisy and Dandelion flowers. \$2 75

—Automatic Self-Cleaning. Lawn. Made of best hickory; 26 teeth. 60

—Die 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. 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 the flowers. Small size, 50c; large size. 1 25

Scythes—American. Weed or brush. 90

—English Lawn. 30 to 36 inches. \$1.25 to 1 50

—Sneath. Peerless. 75

—Stones. Talacre. English Round. 15

—Stones. Flat 5c; round. 10

Seed Tryers—Steel-pointed pocket, nickel-plated, with cap. 1 25

—Large, for sampling Orchard Grass, Blue Grass, Coffee, etc. 1 75

Silkalene—For stringing smilax, etc. Fast green color, will not fade or break. Two oz. spool. 20

Shears—Garden or Hedge. English. Short handle, 8-in. 1 25

— " " " " 9-in. 1 50

— " " " " 10-in. 1 75

—Hedge. With notch, 8-in. 1 50

— " " " " 9-in. 1 75

— " " " " 10-in. 2 00

—Grass Edging or Border. For trimming over hanging grass around edges or walks, 10-in. 3 00

—Grass. For trimming grass on edges and around flower beds. 80

Shovels—Steel. Square point. 1 00

— " " Round point. 1 00

— " " Long handle square point. 1 00

— " " Long handle round point. 1 00

Spades—Steel polished. 1 00

—Nursery. Steel extra heavy strapped. 1 50

**HORTICULTURAL TOOLS AND SUNDRIES—Continued.**



**Scollay Sprinkler.**

**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.

**Syringes—Brass. American Improved.**

No. 10—Barrel, 18 inches long, 1 1/2 inches diameter, 2 spray roses, with patent valves and jet .....\$5 25  
No. 11—Barrel, 18 inches long, 1 1/2 inch diameter, 2 spray roses and jet. .\$.4 50  
No. 12—Barrel, 14 inches long, 1 inch diameter, 2 spray roses and jet. .\$.3 25  
No. H—Barrel, 16 inches long, 1 1/2 inches diameter, with spray rose.....\$2 50



**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

**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—Transplanting.** 6 inch, 15c; 7 inch. . . . 20c

**Thermometers—Japanned.** 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

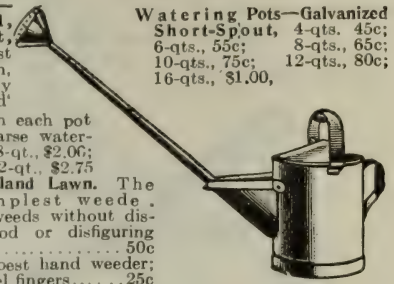
**Dairy.** 10-inch glass ..... 25c

**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.

**Watering Pots—Galvanized, Long Spout.** Made from best quality of iron, and heavily galvanized

**Watering Pots—Galvanized Short-Spout,** 4-qts. 45c; 6-qts., 55c; 8-qts., 65c; 10-qts., 75c; 12-qts., 80c; 16-qts., \$1.00,

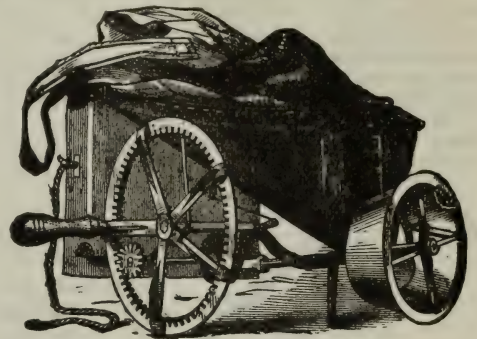


Two roses with each pot for fine and coarse watering 6qt. \$1.85; 8-qt., \$2.00; 10-qt., \$2.35; 12-qt., \$2.75

**Weeders—Cleveland Lawn.** The best and simplest weeder. Removes the weeds without disturbing the sod or disfiguring the lawn. .... 50c  
**Eureka.** The best hand weeder; thin forged steel fingers. .... 25c

**Eureka.** With 2 foot wood handle. .... 30  
**Helzantine.** One of the best; solid steel; good size and durable. 25c; by mail, 30c

**Excelsior.** A very useful little tool for weeding seed beds, stirring the ground, etc. .... 10c; by mail, 15c  
**Lang's.** Allows use of hands in working. .... 25c; by mail, 30c  
**Noye's Hand** ..... 25c; by mail, 30c



**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, rye, 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

**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.

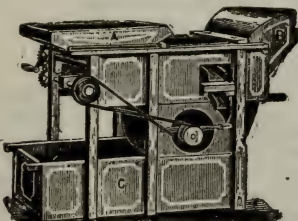
3 Tray Wire Stand—Trays 7 1/2 inches wide x30 inches long, \$3 00.  
2 " " " " 7 1/2 " " " x30 " " " 2 25  
1 " " " " 10 " " " x33 " " " 1 50

**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



Wire Flower Stand.



**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.

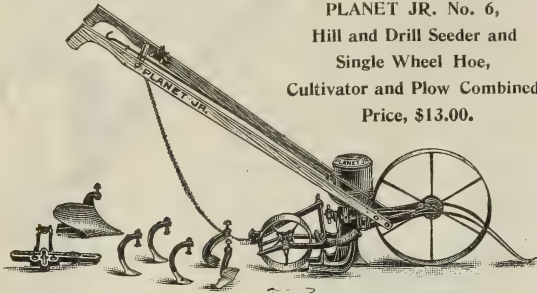
**BLUE GRASS STRIPPER**

The only Hand Blue Grass Stripper in the market. Is well made, nicely painted and varnished. A man can strip twenty bushels of seed per day with it. Weight, 4 pounds. \$1.25

# "Planet Jr." Farm and Garden Tools.

Space will not permit our showing and describing all the of "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

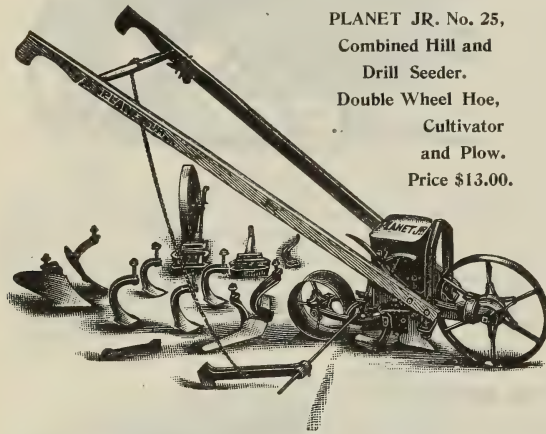


PLANET JR. No. 6,  
Hill and Drill Seeder and  
Single Wheel Hoe,  
Cultivator and Plow Combined.  
Price, \$13.00.

"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.

No. 18. Single Wheel Hoe, with Two 6-inch Hoe, \$3.00  
No. 36. Single Wheel Hoe, Cultivator and Plow.  
Wheel 16 1/2 inches high, making it easy running ....\$5.75

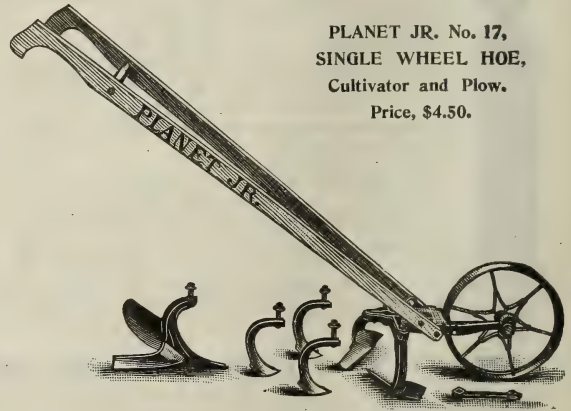


PLANET JR. No. 4,  
COMBINED SEED DRILL  
SINGLE WHEEL HOE,  
CULTIVATOR  
and PLOW,  
\$10.00.

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, \$10.00

No. 4, as a Drill only, \$8.00.



PLANET JR. No. 17,  
SINGLE WHEEL HOE,  
Cultivator and Plow.  
Price, \$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

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

Gentlemen—We have always found your seeds pure and just as represented in your catalogue. Your Crosby's Improved Egyptian Beet is the best and earliest beet that we have come across in our fifty years' experience in garden business. It is vigorous and of rapid growth and its color when raised in sand is dark red, and fine shape, and that makes it the best early market beet,

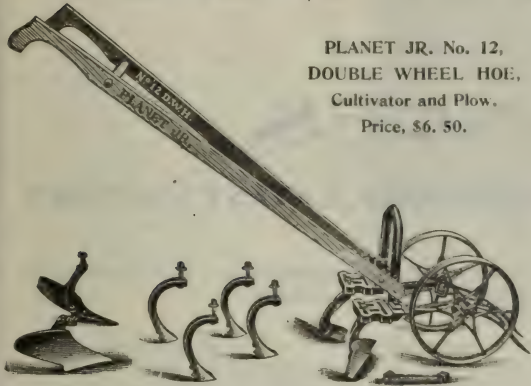
Very truly yours,

CHAS. H. BROWN

956 East Avenue,

Hamilton, Ohio, September, 7, 1905.

“PLANET JR.” FARM AND GARDEN TOOLS, Continued.



PLANET JR. No. 12,  
DOUBLE WHEEL HOE,  
Cultivator and Plow.  
Price, \$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-years-old girls work gardens with them with ease and success.

The No. 12 has 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-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

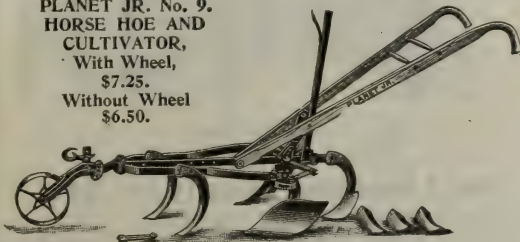
“FARMERS” No. 19 SINGLE WHEEL HOE.”  
Price, \$3.25.



This implement is especially designed for the Farmer's Garden Work, though it offers to everyone with either field or garden a cheap and effective tool for all hand wheel hoe operations.

Strength variety of tools and cheapness are its great virtues  
Price, \$3.25

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, \$7.25



“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 works 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, \$3.00

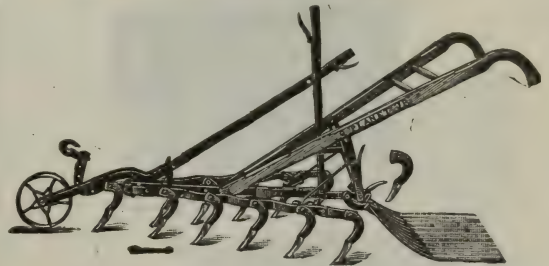
No. 4, PLAIN CULTIVATOR.

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, \$5.00; without wheel, \$4.25.

PLANET JR. TWELVE-TOOTH HARROW,  
CULTIVATOR AND PULVERIZER.

Prices—Without Pulverizer or Wheel, \$5.70.  
Without Pulverizer, \$6.90.  
Complete, \$8.50.



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 his purposes. 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 and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. Its 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 teal disc mounted on an outrigger . . . . . Extra. Price, \$1.75

# POULTRY SUPPLIES

—AND—

## APPLIANCES.

AGENTS FOR **STANDARD CYPHERS INCUBATORS, LATEST PATTERN.**

REASONS WHY YOU SHOULD BUY A GENUINE PATENT-DIAPHRAGM, NON-MOISTURE, SELF VENTILATING, AND SELF-REGULATING STANDARD CYPHERS INCUBATOR, LATEST PATTERN.

**ARTIFICIAL INCUBATION.** Years of experience have demonstrated the many advantages of artificial incubating and brooding over the old method, the hen. The experimental stage has been passed, and the poultryman of today has but to decide which make of machine to buy—the one that will hatch the largest number of strong, vigorous, healthy chicks from a given number of fertile eggs, and with the least amount of expense and labor; also the brooder best equipped for taking care of the new life as soon as it is ready to leave the incubator.

The best possible test of an incubator is the work it actually does in the hands of the average operator. Tens of thousands of Cyphers Incubators have been sold since they were placed on the market, and their merit is attested in the following:

**WARRANT OF SUPERIORITY.** Every genuine patented Standard Cyphers Incubator, latest-pattern, is positively guaranteed as follows:

**FIRST:** To require no supplied moisture under normal conditions thus solving and disposing of the troublesome "moisture question."

**SECOND:** To be self-ventilating, the air in the egg chamber remaining pure at all times by its own gentle but positive action.

**THIRD:** To be self-regulating, being equipped with the most sensitive and durable regulator thus far invented.

**FOURTH:** To be so constructed that the temperature in the egg chamber is more equable than in any other incubator.

**FIFTH:** To be precisely as represented in construction, materials, and workmanship, and, if given reasonable care, to last ten years without repairs.

**SIXTH:** To be easy to set up and positively automatic in operation (except as to trimming the wick, filling the lamp

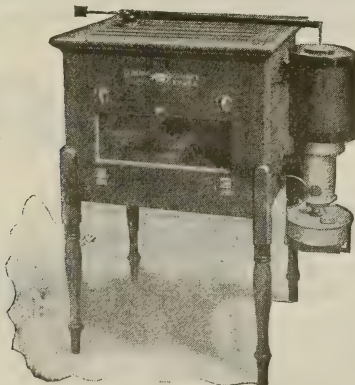
and turning the eggs,) and to operate with less labor and expense than any other make of incubator.

**SEVENTH:** To be in all essentials the simplest and easiest to operate and control, requiring less attention than any other make or style of incubator in the world.

**EIGHTH:** To produce larger, stronger and healthier chicks and ducklings than any other style or make of incubator.

**NINTH:** That when it is run in competition with any incubator of a different make, it shall in three or more hatches, bring out a larger average percentage of the fertile eggs in good, healthy chicks and ducklings than does its competitor.

**TENTH:** That each and every standard Cyphers Incubator we send out will do satisfactory work in the hands of the purchaser, provided he will give it a fair trial, or it can be returned to us within ninety days, in good repair, less reasonable wear, and the purchase price will be refunded.

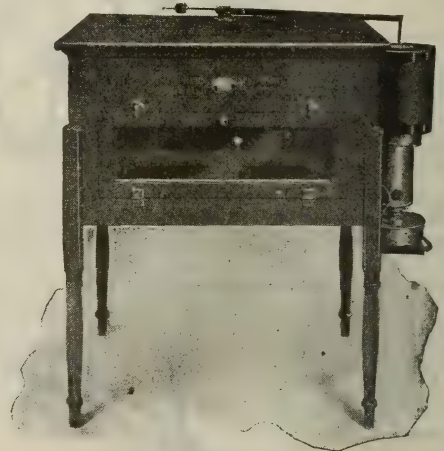


No. 0, Capacity 66 Eggs.  
Price, complete, \$13.00.

### No. 0 Incubator, Capacity 66 Eggs.

OUR No. 0, INCUBATOR, which holds 66 eggs, was placed on the market at the request of fanciers who breed only a few pairs of fowls for exhibition purposes. It is the equal of the larger machines in every particular except size.

No. 0, Capacity 66 Eggs. Price, complete, \$13.00.



No. 1, Capacity 140 Eggs.  
Price, complete, \$20.00.

### No. 1 Incubator, Capacity 140 Eggs.

OUR No. 1, INCUBATOR holds 140 eggs. The breeder who desires to raise from 100 to 300 chicks throughout the season chooses this machine. For that reason it is popular with farmers and fanciers who are branching out into a substantial business.

No. 1, Capacity 140 Eggs. Price, Complete \$20.00.



**WE SELL THE GENUINE CYPHERS INCUBATORS.**



**THE WORLD'S STANDARD HATCHER.** The genuine Standard Cyphers Incubators are not an experiment. They have been before the public ten years, and have received the benefit of ten years improvements. Their fame has grown until, they are now acknowledged to be the "World's Standard Hatchers."

The Standard Cyphers is a hot-air incubator, and therefore, does not possess a tin, galvanized-iron or copper tank to rust out, spring a leak and water soak the machine, thereby injuring or ruining the woodwork. The improved regulator or thermostat used in the latest-pattern Standard Cyphers is built on original lines, and no other style of regulator has been devised that is its equal in durability, exactness or reliability.

No. 2, Capacity 240 Eggs. Price complete, \$29.00.

No. 3, Capacity 390 Eggs. Price complete, \$35.00.

The No. 2 and No. 3, latest pattern Standard Cyphers Incubators are furnished with nursery drawers, the drawers occupying the nursery space underneath the egg trays, and are reached through solid wooden doors located below the glass panel door that opens into the upper portion of the hatching chambers where the egg trays are situated. These drawers will be found of great convenience in removing the chicks and ducklings from our large size Incubators as often as it may be deemed advisable without interfering in any way with the remainder of the hatch.

All sizes of the latest pattern Standard Cyphers Incubators are equipped with a "drop-bottom" for supplying ventilation when the incubator is operated during the warm months of May, June, July and August. This new and valuable feature enables the operator to meet all conditions of weather.

The latest pattern Standard Cyphers Incubator represent, the highest degree of excellence yet achieved in Incubators, both in principle and mechanical construction. It overcomes practically every defect, every inconvenience, and every objection urge to artificial incubation as performed by machines of other types. It not only is more convenient to operate, it not only consumes less oil, it is not only safer, but it produces larger, stronger, healthier and more vigorous chicks and ducklings than any incubator ever built. This is our guaranty to the poultry fraternity.

Standard Cyphers Incubators are used on more Government Experiment Farms, on more successful, large, commercial poultry plants, and by more successful fanciers, than all other incubators combined.

Cyphers Company Incubators are the only machines manufactured that lawfully can be equipped with our patented removable diaphragms, by use of which the "diffusive" system of ventilation is employed, overcoming the necessity of supplying additional moisture by use of shallow pans, wet sponges or moist cloths. This achievement has rendered Cyphers Incubators so simple and easy to operate and so certain in results that they have met with universal appreciation by experienced operators, while beginners succeed with them from the first trial because the machine itself solves the "moisture problem" for them; in other words, we place in their hands a practically automatic hatcher, leaving nothing to chance or inexperience.

By special arrangement with the manufacturers, we are now in a position to sell Cyphers Incubators F. O. B., Cincinnati, at exactly factory prices, as follows:

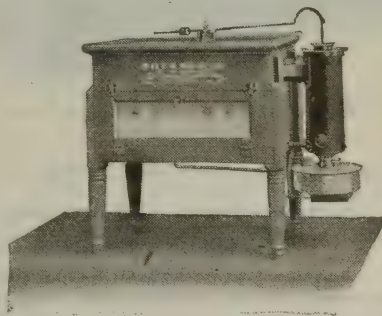
No. 0, 66 egg size, .....	\$13 00	No. 2, 240 egg size, .....	\$29 00
No. 1, 140 " " .....	20 00	No. 3, 390 " " .....	35 00

**LOW-PRICE INCUBATORS.**

While we unhesitatingly recommend the Standard Cyphers Incubator as the best on the market, and the one that is used by the largest and most experienced poultryman throughout the country, we realize that there is a demand for lower-priced incubators, and have determined to offer the following two popular-priced machines, in order to meet this demand. These machines are made of first-class materials, on the same general principles as the Standard Cyphers, and will be found to work practically and give very satisfactory hatches. They have been very thoroughly tested by practical poultrymen, and we have no hesitation in recommending them to those who want popular-priced machines.



Farm-Economy, Capacity 110 Eggs. Price, complete, \$12.00.



Boys' Choice, 50-Egg Capacity. Price \$7.50.

**CYPHERS IMPROVED PEDIGREE EGG TRAYS.**

In our No. 0, Incubator, chickens can be separated into four lots; No. 1, four lots; No. 2, eight lots; No. 3, eight lots. When ordering a Cyphers Incubator, if you want the pedigree trays be sure to say so and include the extra amount.

Note.—Pedigree trays are not for use during entire hatch. The eggs should be placed in them when they are turned for the last time. These trays will fit the Cyphers only.)

In ordering pedigree trays be sure to state style and size of machine and date of manufacture.

Prices: No. 0, each, \$1 25; No. 1, each, \$1.50; No. 2; per pair, \$3.00; No. 3, per pair, \$3.25.

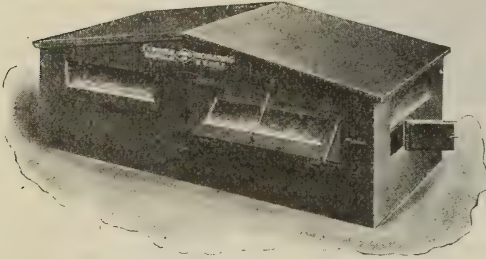
# Cyphers Unequaled Apartment Brooders.

Furnish a safe Home for the Large, Strong and Vigorous Chicks, Hatched in Cyphers Incubators, Insuring Rapid Growth Constant Health, Fine Form and Lustrous Plumage.

These Brooders are CERTAINTY, SAFETY and SECURITY combined.

Don't risk losses of well-hatched chicks in an inferior, wrongly-constructed brooder when you can obtain a certainty of safety in the Cyphers Brooders. Having hatched your chicks, DON'T COURT FAILURE by putting them in an unsatisfactory brooder.

## CYPHERS' STYLE A, THREE APARTMENT, OUTDOOR BROODER AND COLONY HOUSE,



Style A Brooder, \$14.00.

The Cyphers Style A Brooder furnishes an outdoor home for little chicks that is as near weather-proof and neglect-proof as can be made and sold at a popular price. We have manufactured these brooders during the last nine years and the best proof of their merit is that tens of thousands have been sold and are giving the best of satisfaction.

Briefly, the special points of merit in the Style A Brooder may be summed up as follows:—

FIRST:—It is rain-proof and storm-proof, the roof of both the hover chamber and feeding or exercising apartment being covered first with Cyphers red rope roofing paper and then with a specially-prepared heavy weight, water-proof duck.

SECOND:—It is fire-proof, being equipped with the Cyphers Insulated Brooder Stove, and the entire floor of the hover chamber being protected underneath by a solid sheet of galvanized iron with an air space between it and the wooden floor.

THIRD:—The fumes from the brooder stove cannot pass into the chick chambers (into either apartment), but are carried out at the sides of the brooder by an infallible device.

FOURTH:—The surplus heat from the insulated brooder stove preserves all the lower woodwork of the brooder, by warming and drying the soil underneath, thus making the brooder not only safer and more comfortable, but more lasting.

FIFTH:—The brooder stove is easy of access, being above ground and easily and quickly reached. The flame may be observed without the necessity of stooping over to look through the small mica window in the stove door.

SIXTH:—The brooder need not be placed in a pit, nor need the ground be excavated for the brooder stove; hence the saving of labor and in the trouble of caring for the brooder.

SEVENTH:—When the temperature underneath the chick hover is 95 degrees, we have a surrounding atmosphere of 80 to 85 degrees, while in the front apartment the temperature will average several degrees lower. The chicks, therefore, may suit themselves, going to and from the heat at will, and will be found to be comfortable at all times.

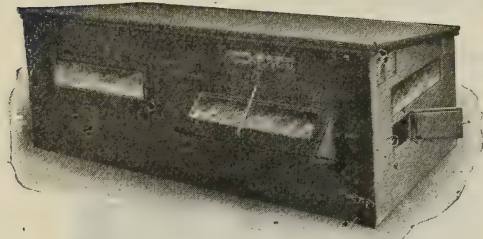
EIGHTH:—The cylindrical chick guard prevents the chicks from crowding and also prevents their coming in contact with the heat drum or dome, to their injury.

NINTH:—In this brooder there are no stairs to climb, hence no danger of the little chicks getting lost and becoming chilled while learning their way in and out.

TENTH:—The brooder may be readily converted into a colony house or colony roosting coop without the use of tools or the driving of a nail or screw. Size 3x6 feet. Price .....\$14 00

## CYPHERS SELF-REGULATING, THREE APARTMENT, OUTDOOR BROODER AND COLONY HOUSE,

The Cyphers Self Regulating Combination Outdoor Brooder and Colony House, 1907-pattern, possesses every valuable feature that has made the Style A Outdoor Brooder the safest and most popular device of the kind on the market, together with a number of additions that will recommend it to many purchasers. It differs only in size and shape, and is equipped with a regulating device that will be of material assistance in maintaining a more uniform temperature underneath the chick hover, especially when exposed to all kinds of weather and the extra cold climates. The heating system, in every particular, is identically the same as is used in the Style A Brooder. In addition to the valuable features possessed by the Style A Brooder, this brooder is also provided with double-wall insulation for the hover chamber, for use during winter months. When spring arrives and the weather moderates, this double-wall can be removed in five seconds of time, without the use of any tools whatsoever.



Outdoor Brooder and Colony House, \$17.00.

The entire floor space of this brooder, together with the lamp and other working parts, may be removed and roosts placed on the floor

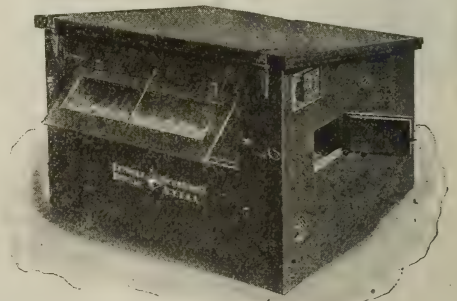
cleats inside brooder, thus making a well-lighted, well-ventilated colony roosting coop. Size 3x6 feet. Price .....\$17 00

## CYPHERS STORM KING OUTDOOR BROODER AND COLONY ROOSTING COOP,

The Storm King Outdoor Brooder, 1907-pattern, consists of the brooding apartment of the Style A, and Colony Brooders, without the exercising apartment of either, and without the regulating device and double insulation of the Colony Outdoor Brooder. In all other respects—including quality of materials in workmanship, it is identical with the brooding sections of the two larger and higher-priced brooders, except that it has a double-frame door in front, furnishing light and warm-weather ventilation to the interior, instead of the smaller, single-frame door used in this section of the other two styles of Cyphers Outdoor Brooders.

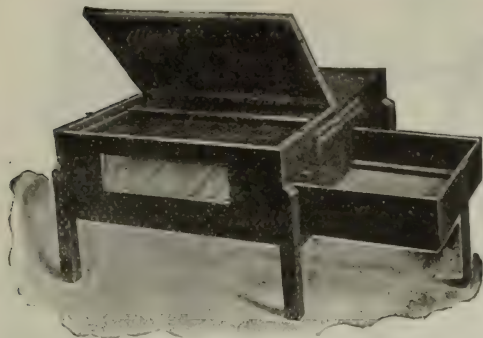
The entire floor space of this brooder, together with the lamp and other working parts, may be removed and roosts placed on floor cleats inside brooder, thus making a well-lighted, well-ventilated colony roosting coop.

Price .....\$9 00



Storm King Brooder.

**CYPHERS IMPROVED HYGIENIC INDOOR BROODER.**



Hygienic Brooder.

Cyphers Hygienic Indoor Brooder has been on the market several years and has given the best of satisfaction. We offer this brooder with the opinion that it is the best device in the form of an individual indoor brooder thus far conceived and invented for the safe and healthful rearing of chicks. It is strictly hygienic, simple in construction, economical to run and reliable in operation. This brooder is composed of three apartments, allowing the chicks to seek whatever temperature suits them best. The outside run is hinged to the brooder proper, so as to drop to the floor, in which position it serves as an incline between the brooder and the floor. The improved-heating system used in this brooder is the same as that employed in the Style A, and other Cyphers Brooders. Price.....\$8 00

**CYPHERS COLONY HOUSE FOR GROWING CHICKENS.**

This Colony House, or Roost Coop, will house comfortably fifty chicks, eight to twelve weeks old. The hinged hood keeps out rain and snow and can be used as an awning. The floor is removable. Our price is considerably lower than the cost of building them singly or in small numbers. Dimensions: Floor space, 3x6 ft. Height in front, 36 in. Height at rear, 24 in. Painted in green with red trimmings. Price, complete.....\$8 00



Colony House

**CYPHERS NEW MODEL COOPS FOR HEN WITH CHICKS.**

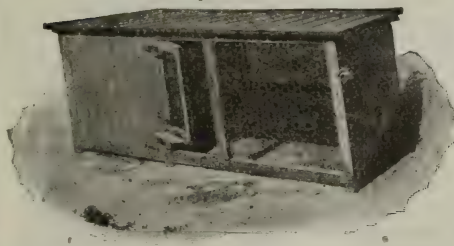
This new and improved model coop is intended for a hen with chicks but may be used also as a home for the chicks long after they are weaned or for chicks removed from the brooder. The house part (1 ft. 9 in. x 2 ft.) has removable floor. The exercise room (2 ft. 6 in. x 2 ft.) is closed at the end and screened with fine mesh galvanized wire, back and front.

Dimensions:—Width, 4 ft. 3 in. Depth, 2 ft. Height in front 1 ft. 9 in. Height in rear, 1 ft. 3 in. Painted in green, with red trimmings. Price, complete.....\$3 50

**CYPHERS CHICK SHELTER.**

The Cyphers Chick Shelter meets the needs of many of our customers. The sides and ends are made of stout, wooden frames, covered with small mesh wire netting. One end is made to fit front of brooder. Painted in green, with red trimmings.

Price of Small Size, 3x5 ft. 11 in.....\$4 75  
Price of Large Size, 3x11 ft. 10 in.....\$8 50



New Model Coop.

**CYPHERS SHED ROOF CANVAS LIGHTED HOUSE.**

This house possesses all the advantages of both closed and curtain-front poultry buildings. Water-proof paraffine sheeting being used instead of glass, all danger of broken windows when moving is eliminated. In addition to ordinary wooden door there is an inside door made of water-proof sheeting. This sheeting freely admits light, but keeps out wind and rain.

Dimensions; Floor space, 6x5 ft. 10 in., Height in front, 6 ft. 10 in., Height at rear, 4 ft.; window, 2 ft. 7 in.x2 ft.

Price complete.....\$22 00

**CYPHERS SUBURBAN POULTRY HOUSE—DOUBLE FLOOR SPACE.**

A double floor, two apartment arrangement, which furnishes the fowls a total floor space of 60 sq. ft. Both apartments are well lighted. In the upper apartment the fowls may be fed and can exercise to their hearts' content. The lower apartment takes the place of a scratching shed. A slatted runway connects the two rooms. It is unnecessary for an attendant to enter this house at all. A door of ample size and convenient height is located in the rear wall through which the nest boxes are easily reached, and the dropping board can be cleaned with a hoe or scraper.

Dimensions: Floor space, 5x6 ft., Height to eaves 5 ft., Height to ridge pole, 7 ft. Price complete.....\$27 00

**HARE-CURTIS PORTABLE HOUSE.**

This is a unique low priced and very desirable knock-down portable house. Being of pyramical form, it offers no large, square right-angle surfaces to the wind, something farmers will appreciate. The house simply consists of four parts, when received by purchaser, and it is unnecessary for him to put on a hinge, drive a nail or do aught else in erecting it ready for use, except put twelve screws in place. The cap-roof, or roof, can be opened for ventilation being so adjusted that the side to windward may be closed, only the sheltered side being open.

Dimensions: Floor space, 6x6 ft., Height to eaves, 6 ft., Height to center of cap-roof, 6 ft. 4 in., Width of cap-roof 2 ft. 3 in.

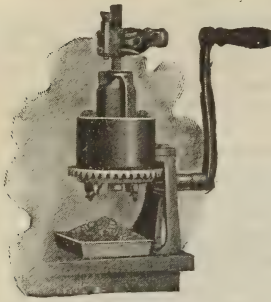
Price complete.....\$22 00

**CYPHERS APEX OR BOYS' POULTRY HOUSE.**

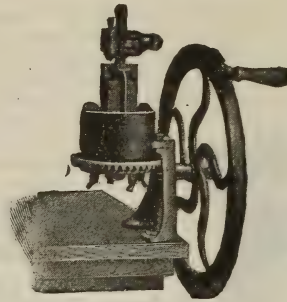
While this house is designed especially for the boy, being a low priced, yet substantial house, it will be found quite useful for temporarily housing surplus stock or for small colonies of breeding stock. A runway of wire netting of a strong, durable frame is made for use in connection with this house. The house and runway can be bought in combination or separately as may be desired.

Dimensions: Floor space, 4 ft. 10 in. x 5 ft. 10 in., Runway, 5 ft. 8 in.x3 ft., Height to apex, 4 ft. Price without runway, \$11.00. Price with runway, complete.....\$16 00

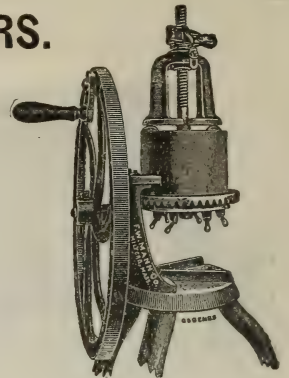
# MANN'S GREEN BONE AND CLOVER CUTTERS.



No. 5 C. \$6.00.

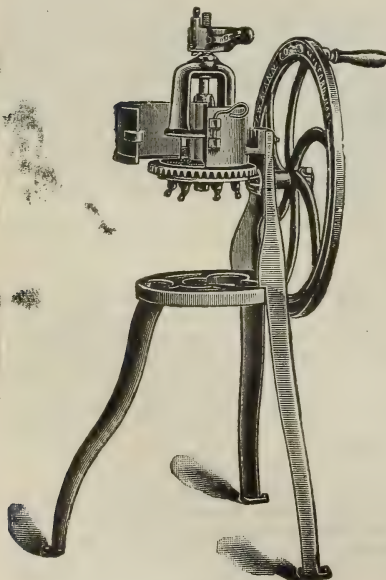


No. 5 B. \$8.00.



No. 5 B. M. \$10.40.

- No. 5 C. This machine is exactly the same as the No. 5 B, with a crank handle instead of a balance wheel, and is only recommended when the strictest economy must be practiced. The small difference in the price is more than offset by the ease of operation produced by the momentum of the balance wheel. Capacity not quite equal to 5 B. Weight, 35 lbs. Price, \$6.00. The No. 5 C, No. 5 B, and No. 5 B. M. do not have the split hinged cylinder.
- No. 5 B. This machine is exactly the same as the No. 5 B. M., except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. Price, \$8.00.
- No. 5 B. M. Intended for flocks of 15 to 25 hens. Can be used for flocks of 100 hens, but larger size is more economical in the end for such a large flock. Mounted on iron stand, no expense to set it up. Place for pan to catch the bone. Patented automatic governing spring feed. Cylinder, 6 inches diameter, 4 inches deep. Cutter plate has 4 knives. Will cut faster and easier than other types costing twice as much. Weight 85 lbs. Price, \$10.40.
- No. 7, NEW MODEL. Intended for flocks of 40 to 100 hens. Can be profitably used for 200 hens or more, but we recommend No. 9, for flocks of more than 100. Mounted on strong iron stand with large table for box or pan to receive cut bone. Patented New Model automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts. Six special knives. Guard guard, anti-clog, device. Heavy balance wheel, with adjustable handle, besides all the best features of our old style machines. Weight, 107 lbs. Cylinder, 7 1/4 inches in diameter, 5 1/4 inches deep. Capacity, 1/2 to 1 lb. per minute. Made in one size only. Price, \$12.00.
- No. 7 1/2, SEMI-POWER. A combination hand or power Bone Cutter. Adapted to run either way without changing any part. It is always ready for use. Intended to meet the demand for a small power cutter. Cylinder same size as No. 7 Capacity, 50 to 100 lbs. per hour. Weight, 150 lbs, diameter of the pulley, 11 1/2 inches, 2 3/4 inch face Speed of pulley, 300 revolutions per minute. The No. 7 1/2 has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulley. etc. Horse power required, 1/2 to 1. Price, \$16.00.
- No. 9, NEW MODEL. Intended for flocks of 100 to 300 hens. The description of No. 7, will apply to this size also. The difference consists of larger cylinder, greater holding capacity, different design and larger table. Weight 170 lbs. Cylinder, 9 inches in diameter, 6 inches deep. Capacity, 3/4 to 1 1/4 lbs. per minute. Price, \$18.40.
- No. 11, NEW MODEL. Intended for large flocks when the machine must be run by hand a portion of the time. It is really a semi-power and semi-hand or combination machine, and as such has its place. It has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulleys, etc. Horse power required, 1 to 1 1/2. Weight, 215 lbs. Diameter of pulley, 15 inches, 3 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.



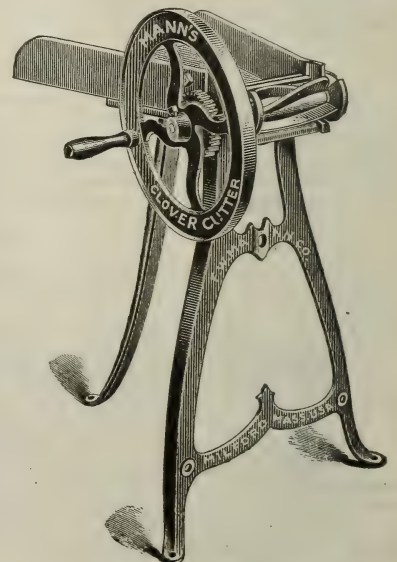
No. 7, \$12.00.

## MANN'S CLOVER CUTTER.

This machine is designed upon strictly correct mechanical principles, for the particular purpose of making the knife easy to sharpen and simple to adjust, and that will not get out of order, something never before accomplished. Another strong feature of Mann's Clover Cutter lies in the fact that 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 of hay or clover, either dry or green, and more rapidly than any other. Every revolution of the balance wheel produces twelve cuts which are four times as fast as the ordinary clover cutter.

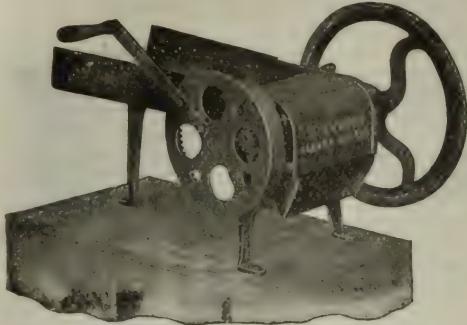
It is strongly built. The workmanship is first-class in every particular, and it will last for years without repairs. Made either with or without the stand.

Price, without stand . . . \$8 00  
With iron stand, all complete . . . \$10 00



Mann's Clover Cutter.

Every Hand-Power Mann Bone Cutter is warranted by us against breakage for one year, and we hereby agree to replace, free of charge, any breakage which occurs while cutting bone within one year from date of purchase, provided purchaser pays express charges on broken part. This insures the purchaser a first-class article.



Silver's Clover Cutter.

**SILVER'S CLOVER CUTTER.**

THIS machine has been especially designed for cutting clover, alfalfa, etc. for feeding poultry and the above cut represents the best machine yet produced for this purpose. It has a heavy fly wheel, which insures easy running, and it will cut faster than machines costing about twice the money. The cutting plate is adjustable, allowing the operator to keep the cutting device in the best possible condition. The throat of the machine is wider than any other Cutter of the kind, giving more room to spread out the clover, which makes the machine cut very much easier than machines with a narrow throat. This machine has four 8 in. solid center spiral knives and cuts  $\frac{1}{4}$  inch in length. The length over all is 24 inches; length of box 18 inches; width of box at largest end 10 inches; width of box at throat 8 inches. Will cut a bushel of clover easy in ten minutes. It is intended to be mounted on a box or bench the proper height for the convenience of the operator. Weight 60 lbs. Price, \$5.50.

**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 25

**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

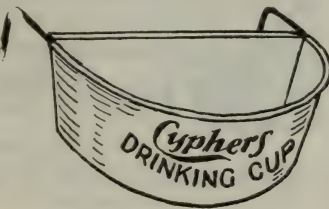


**BLACK HAWK CORN SHELLER.**  
AHDATCH CLARKSVILLE, TENN.

**FOOD OR WATER CUPS.**

Made of galvanized iron, strong and durable. Hold  $\frac{1}{2}$  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 each for postage.



**PAPER EGG BOXES.**

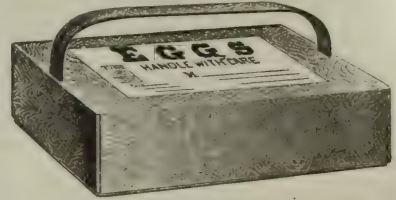
Just the Thing for Your Family Egg Trade.

**PRICES.**

1-doz. size, per doz. 25c; per 100, \$1.00; per 1000, \$5.50.  
2-doz. size, per doz. 45c; per 100, \$1.75; per 1,000, \$12.00.

**HOUGHTON'S WIRE EGG CARRIER.**

Holds six dozen eggs, \$1.25 each.

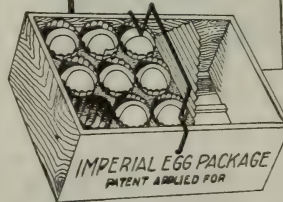


**EYRIE EGG BOX.**

The handle, when put in place, locks the box, and cannot be tampered with in transit. The eggs are completely surrounded by double-faced corrugated paper, which provides a dead air space, effectually preventing their chilling in the coldest weather.

Prices; No. 1, 15-egg size, 15c each, \$1.25 per doz.; No. 2, 30-egg size, 20c each, \$1.90 per doz.

**EGGS FOR MATCHING.**



**IMPERIAL EGG PACKAGE.**

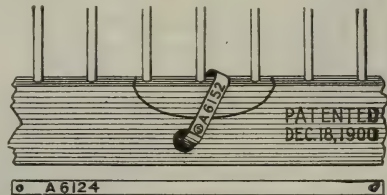
Each package is equipped with a strong stiff wire handle, which locks the lid of the box. Full directions for use accompany every box.

Prices: 15-egg size, per doz., \$1.50; per 100, \$11.00  
30-egg size, per doz., \$2.00; per 100, \$14.00.

**BIT TO PREVENT FEATHER PULLING.**

Keeps the bill just far enough apart to prevent catching the feathers, but does not interfere with the fowl feeding.

Price, per dozen, \$1.00. Less than one dozen, 10c each.



**COOP SEALS.**

Seal your shipping coops, and prevent robbery. They are much cheaper and safer than padlocks. They are made like Smith Sealed Bands, of tin strips about 10 in. long, and are numbered in lettered series, and no duplicates are ever furnished. When shipping poultry or pigeons, use these seals, and advise your customers of seal number.

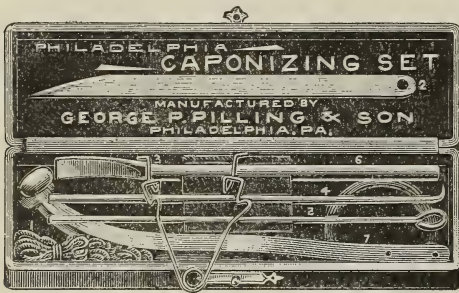
Price; 30c per dozen; 50c for 25; \$1.00 for 60; \$1.50 per 100; 250 for \$3.50; 500 for \$6.50; 1,000 for \$12.00. Prepaid. Any sealing tool or plyers will answer for closing the seals.



There is no doubt in the minds of up-to-date poultrymen as to the advantages of caponizing. The operation is very simple, and with a "Triumph Caponizing Set" any boy twelve years of age can perform it with safety and thoroughness. Capons, as anyone knows, sell on the market as a rule from 5 to 8 cents per pound nigher than any other chickens. The demand for capons is always good, is steadily growing, and at this time a better market is assured the producer in this field than any other. Now is the time to get into the caponizing business, and the first thing to start right is to buy a "Triumph Caponizing Set." No more efficient, simple or more easily operated set is being offered today.

**PRICES.**

- Set in plush-lined, cloth-covered case .....\$3 00
- Set in polished hardwood box ..... 2 75
- Set in japanned wood box ..... 2 50



**PILLING CAPONIZING INSTRUMENTS.**

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



Chick Servers.

**CHICKS SERVERS.**

These chick servers give out pure food and water at all times until the supply is consumed. They are made of galvanized iron in two parts, cone and basin.

Price: 25c each; one dozen \$2.75

**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. Single, pair or trio size \$2.00 each. Pen size \$2.50



McCullough Exhibition Coop.

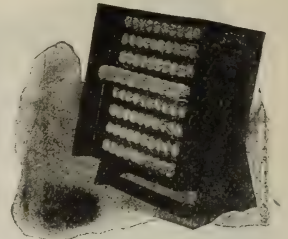
**HALL'S AIR-CELL EGG MODEL.**

Price, 25c; by mail, 30c.

**WOOD'S REVOLVING EGG CABINETS.**

Eggs intended for hatching should be turned daily; the warmer the temperature the more necessary that they be turned every two or three days if kept any length of time. We recommend these cabinets very highly.

Prices: 150-egg size, weight 30 lbs., \$3.00. 288-egg size, weight, 55 lbs., \$5.00. 560-egg size, weight 75 lbs., \$6.25. 1,050-egg size, weight 100 lbs., \$10.00.



Woods Revolving Egg Cabinets.

**WOOD'S PONY CABINET.**

72-egg size .....\$0 85

**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.

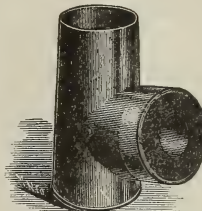
Price, complete, including box, lamp and reflector \$1.25.



**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.



X-Ray Egg Tester.

**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 1/2x8 1/2x1 1/2 in. deep, capacity 1 1/2 qt.; price, 20c each, \$2.25 per doz.

No. 3. 18x6x2 1/2 in deep, capacity 5 qts.; price, 35c each, \$3.75 per doz.



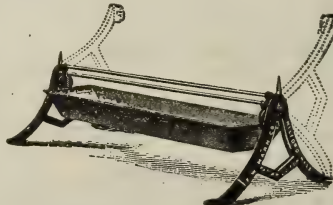
**WALL FEED PANS.**

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, \$3.75 per doz.

**FEED TROUGH.**

A convenient and food-saving appliance which every poultry feeder should appreciate. It 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.



Automatic Swinging Feed Tray.

**AUTOMATIC SWINGING FEED TRAY.**

The saving in the food alone where this tray is used will more than pay for it in a short time.

Price: 18 in, \$1.00; 27-inch, \$1.25; 36 inch, \$1.50

**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.

**STONEWARE RABBIT FEEDERS.**



Stoneware Rabbit Feeders.

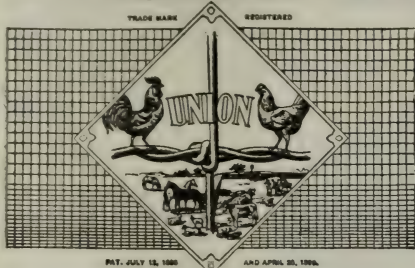
These are in popular use by rabbit and Belgian hare breeders. They are meeting with a rapid sale and the demand increasing for them.

Price; 10c each, or \$1.00 per doz.

**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 3x4 inches. The pickets are No. 19 galvanized steel wired 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 woven-wire 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 60	48-in. bale of 10 rods. . . \$4 15
18-in. bale of 10 rods. . . 2 00	60-in. bale of 10 rods. . . 4 80
24-in. bale of 10 rods. . . 2 80	72-in. bale of 10 rods. . . 5 40
36-in. bale of 10 rods. . . 3 45	
48-in. extra heavy wire, bale of 10 rods. . . 5 50	
60-in. extra heavy wire . . . 6 75	
47 inch. Hog Fence, bale of 10 rods . . . 4 50	
55 inch. . . . . 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 25
Per bale 150 ft. long, 4 ft. wide . . . . .	3 00
Per bale 150 ft. long, 5 ft. wide . . . . .	3 75
Per bale 150 ft. long, 6 ft. wide . . . . .	4 50
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 1/4 ft. wide . . . . .	2 75
Per bale 150 ft. long, 2 ft. wide . . . . .	3 50
Per bale 150 ft. long, 2 1/4 ft. wide . . . . .	4 25
Per bale 150 ft. long, 3 ft. wide . . . . .	5 00
Less than full bales \$1.50 per 100 square feet.	

**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-gal. dish, 40c each.
- No. 2, with a 6-gal. dish, 60c each.



**GALVANIZED IRON DRINKING FOUNTAINS—CYPHER'S.**

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, 50c.

**WALL FOUNTAINS—CYPHER'S.** These fountains are equally serviceable for young chicks or adult fowls, and especially useful for pigeons.

Price: 1-gal. size, 50c. 2-gal. size, 75c.



Davis Food and Water Holder.

**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.



**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.



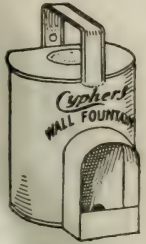
W. R. Poultry Fountain.



Hallock Food and Water Holders.

**DAVIS FOOD AND WATER HOLDERS.**

Can be used for water or grain, grit, shells, etc., 25c each; \$2.70 dozen.



**GALVANIZED SANITARY DRINKING FOUNTAINS.**

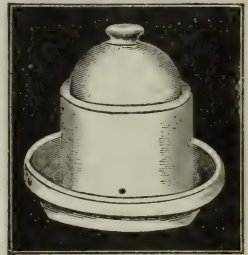
Made of heavy galvanized iron and not injured by freezing. Prices—1-gal. size, 50c. 2-gal. size, 85c.



**SANITARY STONEWARE 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 thing 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.



Sanitary Stoneware Fountain.

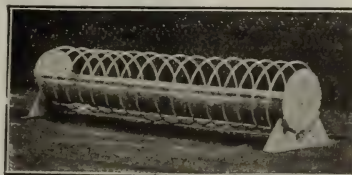
**HALLOCK FOOD AND WATER HOLDERS.**

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.

**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 leak. 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. Made in Three Sizes.



- 3-inch Trough, 18 inches long . . . . . \$0 50
- 4-inch Trough, 24 inches long . . . . . 75
- 5-inch Trough, 36 inches long . . . . . 1 00

**CYPHERS' DRY FOOD HOPPER.**

Made from galvanized iron.

The large compartment is intended for grain, the smaller on for beef scraps.

Price: each, 75c



**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 ..... 50c

**SANITARY GRIT AND SHELL BOX—CYPHER'S.**

Manufactured from the best galvanized iron and contains three compartments, for food, shells or grit.

Price, each ..... 50c.



**GAPE WORM EXTRACTOR.**

This instrument is specially constructed for the purpose, and is the best Gape-Worm Extractor manufactured.

Price, postpaid, 25c



Gape Worm Extractor.



**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., 30c for 25; 55c for 50 \$1.00 for 100.

**LEG BANDS FOR PIGEONS. OPEN BANDS**—One size only, suitable for any breed, and any number desired. Price: Per dozen, 15c; \$1.00 per 100; postpaid, \$1.10.

**OILED MUSLIN.** Price, 12c per yd.; by the bolt, 40 to 50 yds., 10c per yd.

**THE MODEL**

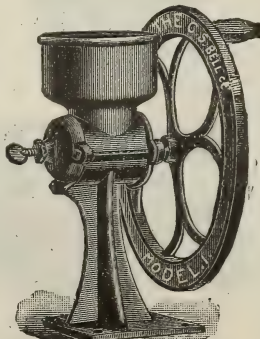
**GRINDING MILL.**

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.

**PRICES.**

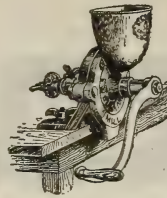
- No. 1, capacity 1/2 to 1 bu. per hour ..... \$2 50
- No. 2, capacity 3/4 to 1 1/2 bu. per hour ..... \$5 00
- No. 3, capacity 1 to 2 bu. per hour ..... \$7 50

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 in the house 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 in the back yard, 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.

**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.



**THE JERSEY PIGEON PERCH.**

Made of seasoned maple and coppered steel wire. Screws into 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 in. in diameter, 8c each, by mail 10c; 50, \$3.50; 100, \$6.50.



Jersey Perch.

**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.

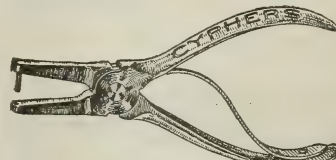
**PHILADELPHIA POULTRY MARKER.**

Is made in two sizes, one for chicks and one for adult fowls.

Prices, each, 25c



Philadelphia Poultry Marker.



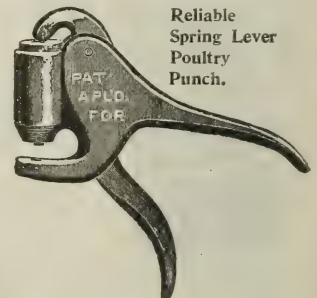
Cyphers Perfect Marker.

Is made especially for the work of marking chicks. Price, 50c each.

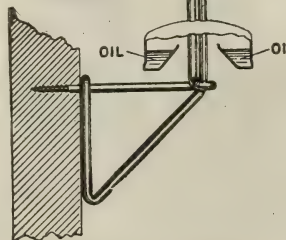
**RELIABLE SPRING LEVER POUCH PUNCH.**

This punch is self-opening very accurate, well made and finished and carefully tested.

Price, 35c; postpaid 40c.



Reliable Spring Lever Poultry Punch.



Anti-Lice Roost Hangers:

**ANTI-LICE ROOST HANGER**

These Anti-Lice Roost Hangers are manufactured from the best steel and tin, light and durable and with ordinary care will last a life-time. Cheap in price and easily put up.

Price: 20c pair.



### Davis' Anti-Louse Roost Brackets.

PREVENT MIDGE LOUSE OR RED MITE RAVAGES.

Neatest and most practical poultry roost on the market. Prevents lice from getting onto the roost from the building, or vice versa, and allows the roosts to be raised up out of the way for cleaning the platform, painting underside of roosts, etc. The brackets are put together with spring cotter pins, which can be taken out in an instant to allow the roosts to be removed from the building.

They are rigid and substantial, neatly japanned, and an ornament to any poultry house.

Both styles of brackets are provided with oil cups as shown, and when put up it is impossible for lice to get on or off the roost from the building without being trapped in the oil. The oil cups should be filled with a good liquid lice killer or a mixture of machine or lard oil with kerosene, equal parts. Cups should be refilled three or four times a year.

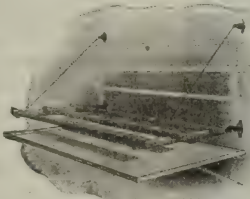


No. 1 or Single Roost Style.

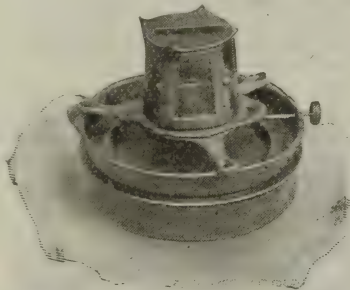
Prices, No. 1 or Single Roost Style:  
 Brackets only,  
 Per pair ..... \$0 75  
 Three pairs ..... 2 00  
 Six pairs ..... 3 50  
 Twelve pairs ..... 6 25

### No. 2, or Multiple Roost Style:

Brackets complete, as shown but without Roosts,  
 Per set ..... \$ 1 25  
 Three sets ..... 3 25  
 Six sets ..... 6 00  
 Twelve sets ..... 11 50



No. 2 or Multiple Roost Style



Safety Brooder Stoves.

### SAFETY BROODER STOVES.

These stoves positively have no equal. Very safe and economical; 7½ inches high, greatest width 10½ inches

1905 Pattern  
 Prices: \$1.35.  
 Three for \$3.90.  
 Six for \$7.50.

1906 Pattern.  
 New style insulated, \$1.50 each.

### 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.



### 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.	\$ 5 00
35 gals., for wood only	72 lbs.	30 in.	8 00
50 gals., for wood only	110 lbs.	30 in.	10 00
100 gals., for wood only	145 lbs.	46 in.	12 00
35 gals., for wood or coal	120 lbs.	30 in.	10 00
50 gals., for wood or coal	140 lbs.	30 in.	12 00
100 gals., for wood or coal	175 lbs.	46 in.	16 00

We will attach a ½-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 of cooker, so as to convert it into a camp stove for any size cooker, for the low sum of \$1.25 extra.

### REX FLINTKOTE ROOFING.

Flintkote is the greatest value in roofing ever offered, and is the only roofing on the market which fulfills all requirements.

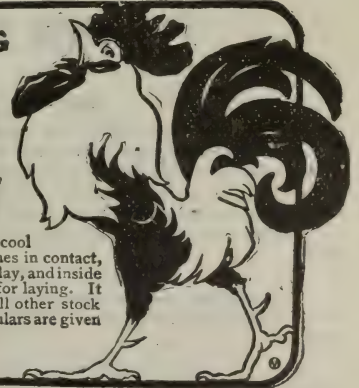
Flintkote is made in four thicknesses and weights, in rolls 36 in. wide. Each roll contains two squares and will cover 200 square feet and allow 2 inches for laps and butts. In the core of each are sufficient nails, caps and cement for laying. We recommend the ½ and 1-ply for ordinary purposes.

### 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.



½-ply, weight 60 lbs., per roll of 200 sq. ft. .... \$3 50  
 1-ply, weight 74 lbs., per roll of 200 sq. ft. .... 4 50

2-ply, weight 94 lbs., per roll of 200 sq. ft. .... \$6 50  
 3-ply, weight 114 lbs., per roll of 200 sq. ft. .... 8 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 roofs.

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

**RED ROSIN SHEATHING PAPER.** This is a strong and durable Sheathing Paper, 30 inches wide, 500 sq. ft. to 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. Prices: 2-ply, 80c per roll; 3-ply, \$1.00 per roll.

**TIN ROOFING CAPS.** One pound of tin caps is required for each roll of roofing. ....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.

**THERMOMETERS.** Incubator. High-grade tested, 50c; by mail, 60c. Brooder. High-grade tested, 40c; by mail, 45c.

# POULTRY SUPPLIES.

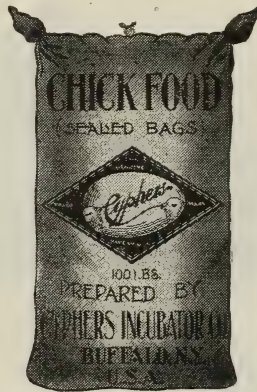
## Cyphers Ready-Mixed Poultry Foods

The Standard Foods for Poultry of all Ages, for All Purposes. Specially Mixed and Balanced Chick Food, Developing Food, Laying Food, Scratching Food and Fattening and Finishing Food Analyzed and Tested by Government Analysis and Guaranteed.

### CYPHERS CHICK FOOD.

This is a complete, scientifically compounded food containing a mixture of many different seeds and granulated grains, properly proportioned to meet all the requirements of little chicks, from the shell to weaning age. No other food will produce as strong, sturdy chicks, or as rapid healthy growth. Cyphers Chick Food is a dry granular food, intended to be fed in the litter.

Per lb., 5c; 6 lbs., 25c; 25 lbs., 85c; 50 lbs., \$1.50; 100 lbs., \$2.50.



### CYPHERS DEVELOPING FOOD.

Cyphers Developing Food is a special food intended for properly maturing young chicks after they are ready to be weaned from Chick Food, and to carry them along to the age when it is desired to place before them the larger whole grains. When the chicks are from six to eight weeks old they are able to eat and exhibit a preference for larger particles of grain than are found in our chick food. Full directions for feeding are in every bag.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.15; 100 lbs., \$2.00.

### CYPHERS FORCING FOOD.

This is an ideal ground grain mash food mixture especially designed to promote rapid growth. It contains, in addition to the ground grains, a sufficient amount of meat foods and meal clover, making it ready for immediate use by simply mixing with the required amount of water to make a crumbly mash. It will produce well developed, plump, attractive broilers or roasters in the shortest possible time. Full directions for feeding are in every bag.

Per lb., 5c; 6 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.15; 100 lbs., \$2.00.

### CYPHERS SCRATCHING FOOD.

This is the best dry grain mixture for feeding half-grown chicks or laying stock. It is made of seeds with whole and cut grains proportioned to give the best results. Fed in the litter, it is the best exercise food ever offered for use of poultry. Full directions for feeding are in every bag.

Per lb., 5c; 6 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.15; 100 lbs., \$2.00.

### CYPHERS LAYING FOOD.

This is a palatable and highly nutritious balanced ration, ready mixed for making the daily mash. It is a complete ration and contains in addition to ground grains, the necessary meat and green food. This food is ready for use by simply mixing with sufficient water to make a crumbly mash. There is no need to worry about the proportions of the different ingredients since Cyphers Laying Food is scientifically balanced, according to a well tried formula. Full directions for feeding are in every bag.

Per lb., 5c; 6 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.15; 100 lbs., \$2.00.

## SPRATTS PATENT POULTRY FOODS.

### 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., \$6.00.

### 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., \$6.00.



# Purina Poultry Foods.

NO GRIT PURINA POULTRY FOODS are entirely of grain and seed composition. No grit is used for two important reasons:

- In a mixed grit feed it is impossible for the feeder to tell how much he is paying for grains and seeds, and how much for grit. Grit can usually be purchased for ONE-QUARTER OF THE FEED PRICE and it is therefore foolish and extravagant to pay feed price for it.
- It is impossible for any one but the hen to know how much grit is required; therefore where it is used in mixed feeds, it is usually found in quantities wasting on the ground after feeding.



## PURINA BABY CHICK FEED.

Composed of choice grains 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; 6 lbs. 25c; 25 lbs. 85c; 50 lbs. \$1.50; 100 lbs. \$2.50.

## PURINA FATTENING FEED.

A careful intelligent combination of the best materials known for finishing off market fowls quickly and profitably, ground to a meal. It can either be mixed with sufficient water for a crumbly mash, or made into a gruel for use in the stuffing machine.  
Per lb. 5c; 6 lbs. 25c; 25 lbs. 75c; 50 lbs. \$1.15; 100 lbs. \$2.00.

## 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, and ground.  
Per lb. 5c; 6 lbs. 25c; 25 lbs. 75c; 50 lbs. \$1.15; 100 lbs. \$2.00.

## PURINA MASH—Makes Hens Lay.

GREEN FOOD AND MEAT RATION FOR MOULTING AND WINTER EGGS. Composed of meat scraps, mill feed, and alfalfa meal. This gives the necessary combination of green foods, meat and medicinal qualities necessary for highest egg development. Where all other feeds have failed to produce eggs, PURINA MASH HAS SUCCEEDED.  
Per lb. 5c; 6 lbs. 25c; 25 lbs. 75c; 50 lbs. \$1.15; 100 lbs. \$2.00.

## PURINA PIGEON FOOD.

This feed is made to meet the universal demand from fanciers for something especially suitable for pigeons. The mixture contains a great variety of grain and seeds and peas properly balanced under the directions of a successful man who has had years of study and experience with pigeons. Like all of our feed, it is absolutely guaranteed. No Grit or Shell in it to cheapen it.  
Per lb. 5c; 6 lbs. 25c; 50 lbs. \$1.50; 100 lbs. \$2.50.

# 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 unrivalled for raising young chicks, ducklings and turkeys. The name of this preparation is "CHICKS—EAT."

Chicks eat "CHICKS-EAT" greedily, and thrive on it. 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. package 25c; 7 lb. package 50c; 15 lb. package \$1.00.



## VICTOR CORN AND OAT FEED.

Victor Food is a balanced ration in itself. It is a pure grain food, all corn and oats, and not a refuse or bi-product. In Victor Corn and Oat Food the grains are so balanced as to produce the greatest results in feeding. Makes a great stock food for horses and cattle, and one of the best foods on the market for poultry, to make them lay.

Price: 50 lb. bags, 75c; 100 bags, \$1.40.

## ALFALFA CLOVER MEAL.

Is pure Alfalfa, ground to a 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., \$1.10; 100 lbs., \$2.00.

## SHORT CUT ALFALFA CLOVER.

Guaranteed 95 per cent. pure clover. It can be fed either with a mash or scalded with warm water and fed in a trough by itself. ... Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.00; 100 lbs., \$1.75.

## HULLED OATS.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.25.

## ROCK RIVER OAT MEAL.

Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.30; 100 lbs., \$2.40.

## 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.

Ground Beef, Spratt's Patent. Per lb., 5c; 6 lbs., 25c; 50 lbs. \$1.90; 100 lbs., \$3.50.

## 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., \$2.00; 100 lbs., \$3.75.

## 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., \$1.85; 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.



**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 balance of the ration, and if fed daily, very little meat food need be given.

Prices: 2½-lb. pkg., 25c; 25-lb. pails, \$2.00.

**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. This Lice Paint was formerly

known as "Surekill." If something cheaper is wanted, dilute one part Cyphers' Lice Paint with one part kerosene oil and you will then have a liquid as strong and as deadly as any other on the market.

Prices: 1-qt. can, 35c; 2-qt. can, 60c; 1-gal. can, \$1.00; 5 gal. can (wooden jacket), \$4.00.

**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; 5-gal. can (wooden jacket) \$4.00.

**CYPHERS' 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.

Prices:—  
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.

**OVINAPHTHOL NEST EGGS.**

Our Ovinapthol Lice Killing 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. Do not accept worthless substitutes. Prices: 10c each, 75c per doz.

**PORCELAIN NEST EGGS.**

These eggs are made of first-class flint glass, and should last a lifetime. Prices, 2 for 5c. Per doz., 25c.

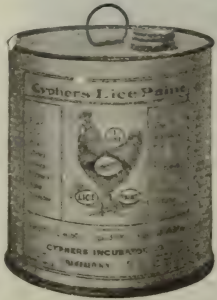
**NAPCREOL.**

A concentrated preventive of disease. Guaranteed to do the work. Napcreol is 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, sealy leg and all parasites. Napcreol is never sold in bulk. Full directions on every can.

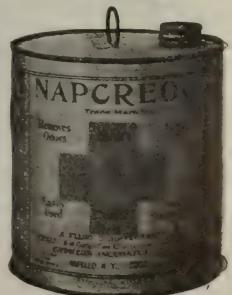
Prices: ½-gal. can, 85c; 1-gal. can, \$1.50.



TRADE MARK REGISTERED



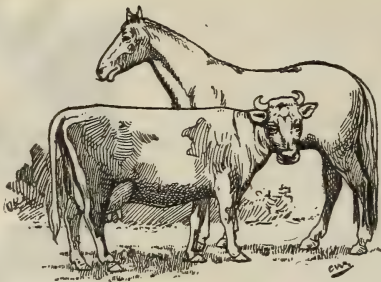
Lambert's Death to Lice.



**ANTI-FLY**

**PEST.**

Easy to apply, safe to use, lasting in effect. One application instantly relieves horses and cattle from all annoyance 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.



**TAROLINE, CONKEYS.**

Is an invaluable remedy for all germ, diseases. Pint can, 35c; qt. 60c; gal., \$1.50.

**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 pkg., 50c, postpaid. Large size pkg., \$1.00, postpaid.

**HEAD LICE OINTMENT, CONKEY'S.**

Prices: 10c and 25c.

**CHOLERA CURE, CONKEY'S.**

Price: 50c.

**GAPE CURE, CONKEY'S.**

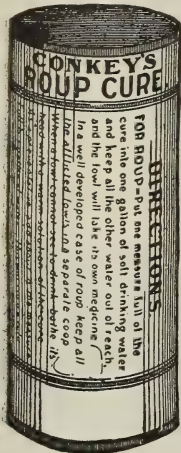
Price: 50c.

**ROUP PILLS, RUSTS HAVENS'.**

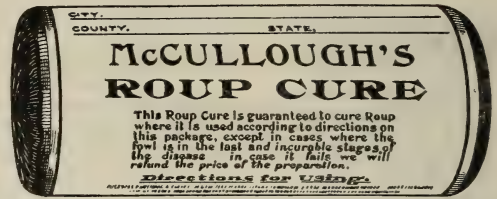
For Roup, Catarrh, Colds, Pigeon Diseases, etc.

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 of 250, \$1.00. Can be sent by mail, postpaid.

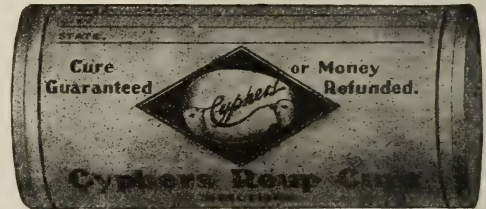


**McCULLOUGH'S ROUP CURE.**



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, postpaid, Large size package, \$1.00 postpaid.



**ROUP CURE, CYPHERS'.**

Cyphers' Roup Cure is used by simply dissolving the remedy in drinking water. Full directions for use with each package.

Prices: Small size pkg., 50c, postpaid. Large size, \$1.00, postpaid.

Sample size 25c, postpaid.

**SELECTED PIGEON SUPPLIES.**

	Per qt. 10c	Per pk. 60c	Per bu., \$2.00
English Maple Pigeon Peas	Per qt. 10c	No. 1. \$1.50 per bu.	No. 2. \$1.30 per bu.
Canada Pigeon Peas	Per qt. 10c	50 lbs. \$1.50	100 lbs. \$2.50
Mixed Pigeon Feed	Per lb., 5c	50 lbs. 2.50	100 lbs. 4.75
Vetches	10c	50 lbs. 2.25	100 lbs. 4.00
Hemp Seed	10c	50 lbs. 2.50	100 lbs. 4.75
Tick Beans	10c	50 lbs. .85	100 lbs. 1.60
Kaffir Corn	5c	50 lbs. 1.25	100 lbs. 2.00
Pigeon Corn	5c	50 lbs. 1.25	100 lbs. 2.30
Red Millet	5c	50 lbs. 1.50	100 lbs. 2.65
Hog Millet	5c	50 lbs. .55	100 lbs. .75
Rock Salt	5c	50 lbs. 1.25	100 lbs. 2.00
Fousts Health Grit	5c	50 lbs. 1.25	100 lbs. 2.00
Tobacco Stems	5c	6 lbs. .25c	

**PURE SEEDS FOR BIRDS.—SPECIAL PRICES IN LARGER QUANTITIES.**

Canary Seed	Per lb., 10c	3 lbs., 25c	Millet Seed	Per lb., 05c	6 lbs., 25c
Hemp Seed	10c	3 " 25c	Rough Rice Seed	10c	3 " 25c
Rape Seed	10c	3 " 25c	Parrot Seed, Mixed	10c	3 " 2c
Sunflower Seed	10c	3 " 25c	Cuttle Bone, Mixed	30c	Per oz., 05c
Lettuce Seed	20c	3 " 50c	Bird Gravel		3 lb. pkg., 10c

Fish Food, 5c per box.

Aquarium Plants, 10c per bunch.

Prices fluctuate with the market, so if wanting a large quantity, write us for special prices stating what quantity desired. Add 18c for each seamless, and 10c for each burlap bag, on feed and grain orders.

**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 Diphtheritic 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.



Cyphers Medical Case of Standard Poultry Remedies.

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.

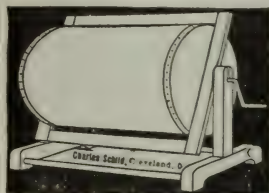
# PORTABLE POULTRY HOUSE FIXTURES

## The Potter Portable Hennerly 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 hennery ever offered to poultrymen. Prices of Vermin Exterminator Roost, range from 3 ft., 2-perch @ \$1.00 each to 10 ft., 3-perch @ \$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 eight or ten 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 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.

# EGGS FOR HATCHING.

## FROM THOROUGHbred STOCK.

Having been requested at various times by our many customers to secure them Eggs from good, reliable breeders, for hatching purposes, and being in a position to secure the best only, we have made arrangements with reliable specialty breeders, and know they have high-class stock only. We herewith list some of the leading and most popular varieties.

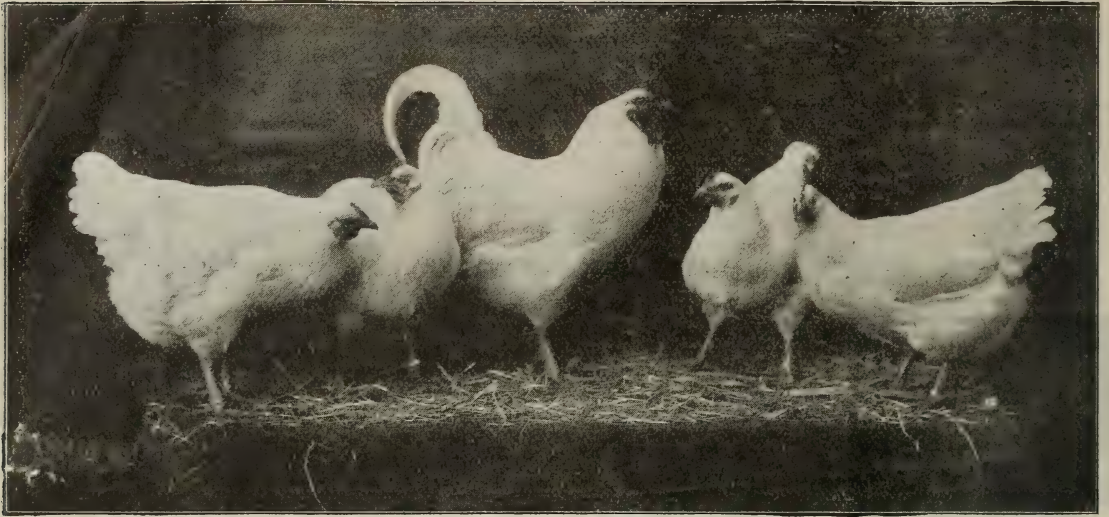
In selling Eggs for hatching, no special guarantee is expressed or implied in regard to fertility. We guarantee all Eggs to be standard bred stock and true to name. The fertility varies with the season, but we do not in any case send out Eggs that we know do not show a high percentage of fertility, and we can furnish Eggs as good as sold 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 .....	\$2 00 for 15	Brown Leghorns, R. C .....	\$2 00 for 15
White Plymouth Rocks .....	2 00 "	White Leghorns, S. C .....	2 00 "
Buff Plymouth Rocks .....	2 00 "	White Leghorns, R. C .....	2 00 "
White Wyandottes .....	2 00 "	Buff Leghorns, S. C .....	2 00 "
Golden Wyandottes .....	2 00 "	Black Minorcas .....	2 00 "
Silver Wyandottes .....	2 00 "	Rhode Island Reds .....	2 00 "
Buff Wyandottes .....	2 00 "	Cornish Indian Games .....	2 00 "
Partridge Wyandottes .....	3 00 "	Silver Spangled Hamburgs .....	2 00 "
Light Brahmas .....	2 00 "	Golden Spangled Hamburgs .....	3 00 "
Dark Brahmas .....	3 00 "	Black White-Crested Polish .....	2 00 per 13
Buff Cochins .....	2 00 "	Silver Bearded Polish .....	2 00 "
Brown Leghorns, S. C .....	2 00 "	Pekin Duck Eggs .....	2 00 "

We can furnish Eggs from any standard bred poultry, also of any ornamental fowls, pheasants, ducks, geese or turkeys. We can also furnish Incubator Eggs by the hundred or thousand, almost any variety, on short notice. Prices of same, a matter of correspondence.

# WHITE PLYMOUTH ROCKS.

## THOROUGHBREDS.



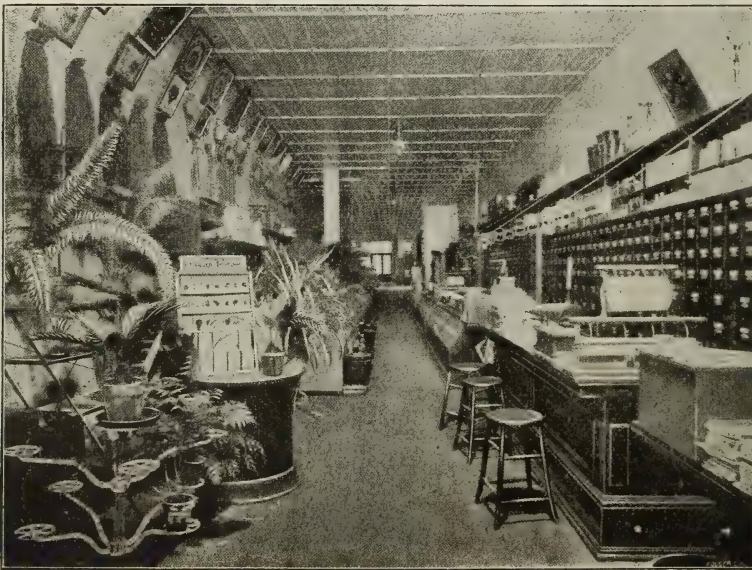
Bred and owned by Mr. H. B. McCullough.

To be successful with Poultry good stock is essential. Costs no more for feed and care than common stock and results are certain.

We are prepared to furnish strictly first-class stock in all the leading varieties of Poultry and will give prompt attention to all inquiries,

Homer Pigeons for Squab breeding, Buff Cochin Bantams, etc.

1838. ESTABLISHED 69 YEARS. 1907.



**VIEW OF OUR MAIN SALESROOM.**  
316 WALNUT STREET.

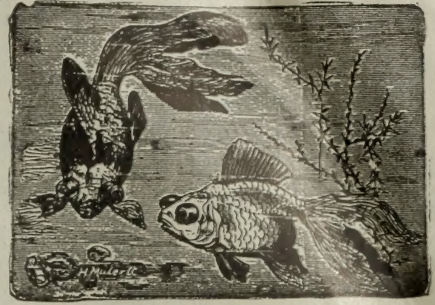
**T**HE above illustration presents a view of the first floor of our modern steel front building located at 316 Walnut Street, Cincinnati, Ohio, and consisting of five floors and basement, each 25 feet wide by 200 feet deep, containing a total of 30,000 square feet.



# GOLD FISH.

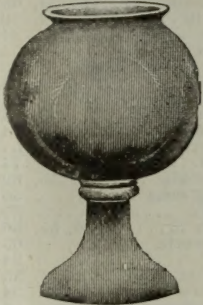
We carry in stock the following varieties of Gold Fish, all selected with greatest care to secure best qualities only, so that purchasers may rely on receiving best values for prices charged.

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 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.

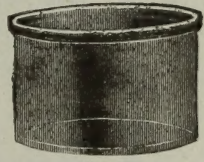
## FISH GLOBES AQUARIUMS, Etc.



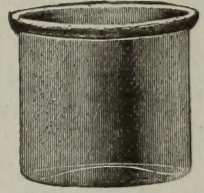
Footed Fish Globes.



Hanging Fish Globes.



Aquaria, Puntled Bottom.



Flat Fish Tanks.



Footed Fish Tanks

### FOOTED FISH GLOBES—Pressed Foot.

Size.	Each.	Dozen.
1/2-gallon actual capacity	\$ 0 75	\$ 8 50
1 "	1 00	11 00
1 1/2 "	1 25	14 00
2 "	1 50	17 00

### HANGING FISH GLOBES.

Size.	Each.	Dozen.
5 1/2-in.—1-gallon actual capacity	\$ 0 25	\$ 2 75
6 1/2-in.—" "	30	3 25
7 1/2-in.—" "	35	4 00
8 1/2-in.—1 "	45	5 00
9 1/2-in.—1 1/2 "	60	6 50
10 1/2-in.—2 "	70	7 50
12-in.—3 "	85	9 50

Chains for fish globes, 10 cents each.

### AQUARIAS—Puntled Bottom.

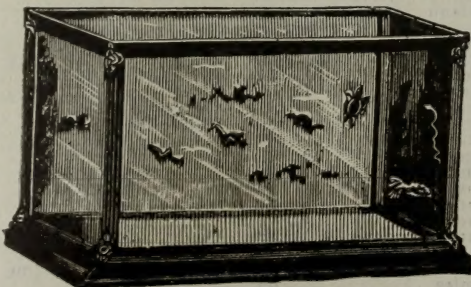
Size.	Each.	Dozen.
10-in.—2-gallon actual capacity	\$ 1 00	\$11 00
12-in.—3 "	1 50	16 50
14-in.—4 1/2 "	2 00	22 00

### 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; ..... 10 00  
 No. 210.—Metal stand, Brass finished, height 32 inches, for 5 gallon Aquaria, ..... 10 00

### AQUARIUMS.



Are made on latest improved principles—water does not touch the iron—no danger of iron rust killing the fish. No rusting of the frame, as the water does not touch it.

No. 1.—2 1/2 gallons ..... \$3 75 | No. 3.—9 gallons ..... \$5 50  
 No. 2.—6 gallons ..... 4 50 | No. 4.—12 gallons ..... 6 50

### FLAT FISH TANKS Puntled Bottom.

Size.	Each.	Dozen.
7 1/2 x 7 1/2-in.—1 gallon actual capacity	\$ 0 70	\$ 7 50
8 1/2 x 8 1/2-in.—1 1/2 "	85	9 50
9 1/2 x 9 1/2-in.—2 "	1 00	11 00
11 x 11 1/2-in.—3 "	1 25	14 00
12 x 12 1/2-in.—4 "	1 75	20 00

### FOOTED FISH TANKS.

Size.	Each.	Dozen.
7 1/2 x 7 1/2-in.—1 gallon actual capacity	\$ 0 85	\$ 9 50
8 1/2 x 8 1/2-in.—1 1/2 "	1 00	10 75
9 1/2 x 9 1/2-in.—2 "	1 50	16 50
11 x 11 1/2-in.—3 "	2 00	21 00

### JAPANESE FISH GLOBES.

Plain top, capacity 2 gallons ..... \$2 50 each  
 Crimped top, capacity 2 gallons ..... 2 65 each

### WROUGHT IRON FISH GLOBE STAND.

These stands greatly improve the appearance of a fish globe sitting on a table or window, as they are graceful, light yet strong and durable.

No.	For	Each	Doz.
No. 1.	For 7-inch globe, without globe	\$ 0 25	\$2 75
No. 2.	" 8 "	35	3 75
No. 3.	" 9 "	45	4 50
No. 4.	" 10 "	50	5 50

### AQUARIUMS IN VARIETY.

We own and operate in our salesroom the largest aquarium in Cincinnati used for commercial purposes.

## AQUARIUM ORNAMENTS

In Variety, from 10 cents up.



Single Ruin.



Medium Castle.



Castle.

7 in. high, 40c each. 4 1/2-in. high, 35c each. 4 in. high, 25c each.

FLOATING ANIMALS ..... From 20 cents to 50 cents each.  
 AQUARIUM MOSS ..... 10 cents per bunch; by mail, 12 cents.  
 FISH FOOD ..... 5 cents per box; by mail, 7 cents.  
 DIP NETS ..... 25 cents to 50 cents each.  
 TIN BUCKETS ..... Small size 10 cents; large size 15 cents.

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