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**The Cullough's**  
**Seed**  
**Catalogue**  
AND  
**AMATEUR'S GUIDE.**

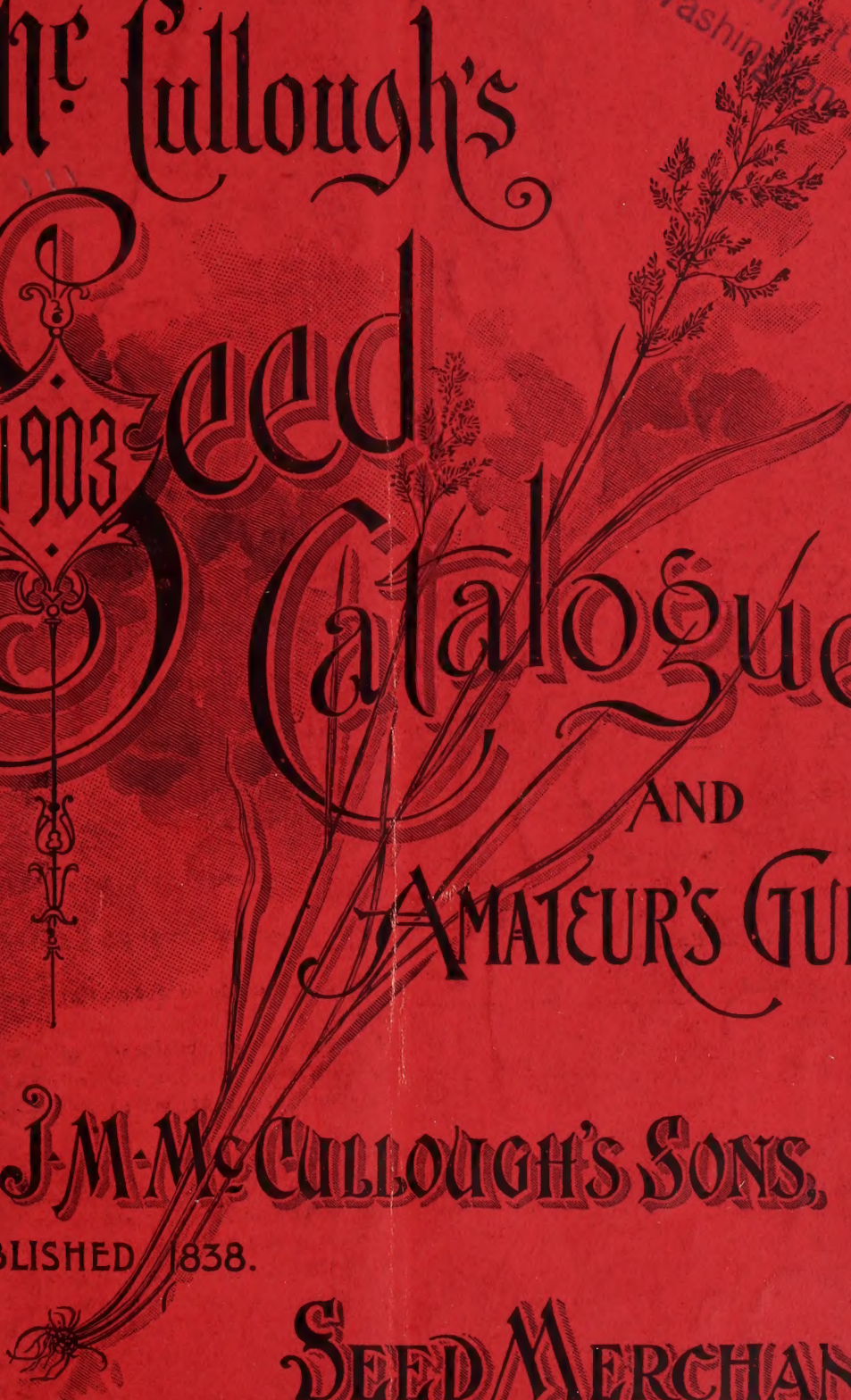
**J.M. McCULLOUGH'S SONS,**

ESTABLISHED 1838.

**SEED MERCHANTS**

316-318 WALNUT ST.

BETWEEN  
THIRD-FOURTH  
STS  
**CINCINNATI, OHIO.**





**O**WING to our increasing trade in Garden and Flower Seeds, we have been compelled to increase our floor space, and now use the entire buildings, 316 and 318 Walnut Street for our retail trade. We are in position to give our customers the best quality at lowest price and prompt service.

We have also added a Poultry Department, and carry a full line of the latest improved Incubators, Brooders, Bone Mills, etc.

Our customers are cordially invited to call and inspect our improved Warehouses, both in the Garden and Grass Seed Departments.

## 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 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.

**Customers who buy at our counters**, or wish to pay their own express charges may deduct ten cents per pound on all seeds bought by the pound, if quoted at prepaid rates.

**Send the money with the order.**—Postal Note, Post Office Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York.

In view of the fact that the express companies make a special low rate on small packages of Seeds, Plants and Bulbs, we would suggest that patrons remit by Express Money Orders, which can be obtained at nearly all the express offices. 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 seeds.** 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 our good seeds will be ruined. With the best of management and with good seeds there will be an occasional unaccountable failure. The best of gardeners sometimes fail, and try again with the same seed with good results.

**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.

# J. M. McCULLOUGH'S SONS,

(ALBERT McCULLOUGH)  
(H. B. McCULLOUGH)

Offices and Salesrooms, 316-318 Walnut St.,

Between Third and Fourth Streets,

WAREHOUSE DEPOT:

328-330-332 East Front St.

Telephones, Main 584 and 748.

CINCINNATI, OHIO.



# J. M. McCULLOUGH'S SONS

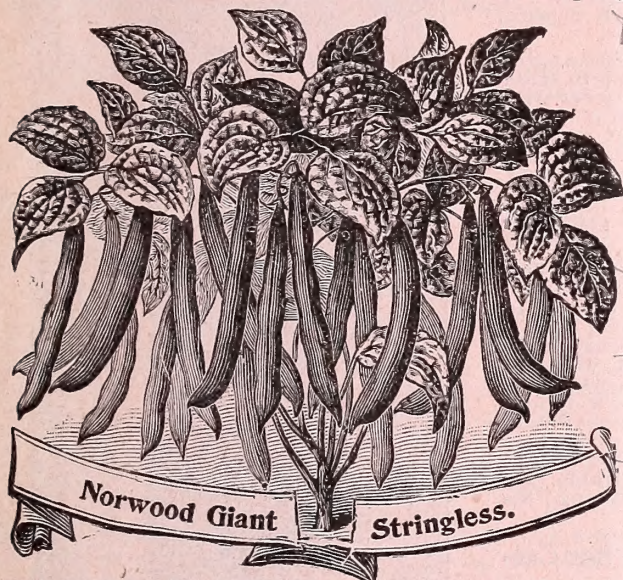
SELECTION OF

## NOVELTIES AND SPECIALTIES

IN

# Vegetable, Flower and Farm Seeds.

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.



### Norwood Giant Stringless Green Pod Bean.

This variety is far superior to any other green-podded bean grown, and will be highly appreciated by all who grow for market, also by those who grow for their own use. It is positively stringless, and ripens fully a week earlier than the well-known Red Speckled Valentine Bean. The pods, which are produced in abundance on the vines, are long and very fleshy; perfectly round and very meaty quality is the very finest. Per pkt., 5c; pint, 15c; quart, 30c; per peck, \$2.00.

**FLAGEOLET RED WAX BEAN.** Flat, yellow stringless, pods of great size. Per pkt. 5c; pint, 15c; quart, 30c; per peck, \$2.00.

**REFUGEE WAX BAEN.** A perfect refugee. with long, round wax pods, stringless; suitable for early and late sowing, and an immense yielder. Per pkt., 5c; pint, 15c; qt., 30c; per peck, \$2.00

**ROUND POD WAX BEAN.** This is a novelty in the true sense. Has 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 seven inches in length. Don't fail to try it. Per pkt., 5c; pint, 20c; per quart, 35c; per peck, \$2.50.

**VALENTINE WAX BEAN.** An improved extra early Valentine Bean, with round wax pods. It is without exception the earliest Wax Bean. The pods are 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. Per pkt., 5c; pint, 15c; quart, 30c; per peck, \$2.00.

**OHIO WAX POLE BEAN.** This novelty is an improved 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. Don't fail to give it a trial. Per pkt., 10c; pint, 25c; quart, 40c; per peck, \$2.50;

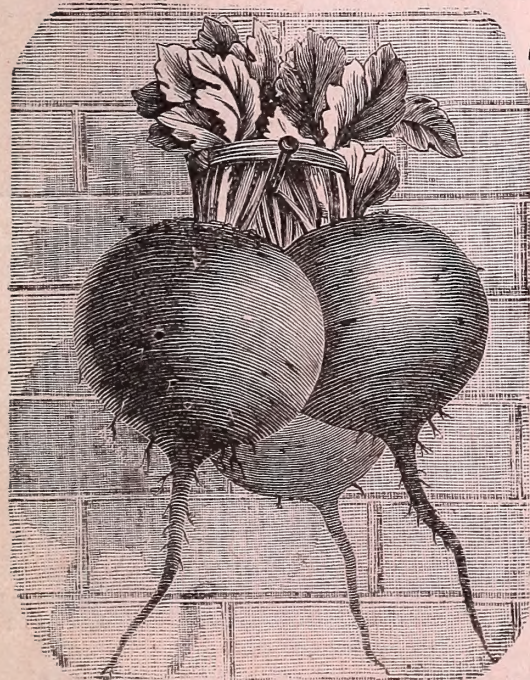
**ASPARAGUS or YARD LONG BEAN.** This is a curiosity, long slender, round pods of excellent quality. The pods grow from 2 to 3 feet long, and are very slender, like a pipe-stem very curious; should be grown on pea brush. Per pkt., 10c; 3 pkts, 25c.

**COLUMBIA BEET.** One of the finest main-crop Beets either for market or the home garden. 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. 5c pkt.; 10c oz.; 25c 1/4 lb.; 75c lb.

**DETROIT DARK RED TURNIP BEET.** One of the best deep red turnip beets not only for market gardeners, but for the home garden. Its small upright-growing tops, early maturing and the splendid shape and color of the roots, make it popular with every one who plants it. 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. 5c pkt.; 10c oz.; 25c 1/4 lb.; 75c 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, and their rich, dark red flesh is very sweet, crisp and tender, never becoming woody even in the exposed portions. 5c pkt.; 10c oz.; 25c 1/4 lb.; 75c lb.

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 at the rate of ten cents per pound and sixteen cents per quart.



Columbia Beet.



Ohio Wax Pole.

**IMPROVED RUBICON CARROT.**—This beautiful half-long Carrot was originated in Connecticut by a reliable grower. It is the result of careful breeding, and in shape and color most desirable. The Carrots grow about same length as the well-known Danvers, but thicker, and are a rich, dark orange in color. It is an enormous cropper and a splendid variety for the market gardener . . . . 5c pkt., 10c oz., 30c ¼ lb., 80c lb.

**EARLY SHEFFIELD SUGAR CORN.**—A new early variety; a cross between *Cory* and *Extra Early Adams*. It combines not only the merits of these two leading varieties, but is superior to either. The *Sheffield* can be planted fully as early as the *Adams*, as the young plants will withstand slight frosts. The stalks are strong and vigorous, growing about five feet in height, bearing one or two fine ears to a stalk. The ears are quite large for so early a variety, and are entirely free from smut. The grains are of medium size, arranged in ten or twelve regular rows, well filled to each end of the ear; juicy, and of a fine sweet flavor. . . . 5c pkt., 10c pint, 20c quart, \$1.00 peck.

**CUMBERLAND CUCUMBER.**—A variety of the hardy, white spine type; is a rapid, strong and vigorous grower, and very prolific in fruit. The pickles differ from all other hardy sorts in being thickly set with fine spines over the entire surface, except the extreme stem end; and during the whole period of growth, from the time they first set until fully grown, the form is exceptionally straight and symmetrical, thus being as choice as a slicing variety as it is for pickles. The flesh is firm, but very crisp and tender at all stages. . . . 5c pkt., 20c oz., 65c ¼ lb.



Paris Golden Yellow.

**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 gardner and exceedingly popular with every planter. The entire stalk is solid and crisp. . . . 5c pkt., 30c oz., \$1.00 ¼ lb.

**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, veins small, and not the least signs of coarseness. 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., 60c ¼ lb., \$2.00 lb.

**MANY HEART**

**CELERY**—

This is one of the best keeping Celeries in the market to-day, and having plenty of heart, which is the important factor, it sells well; also the delicious flavor, besides being very brittle, makes it very desirable.

5c pkt., 30c oz., 85c ¼ lb.

**Shumacher Cel-**

**ery.**—

The finest dwarf winter Celery, being similar to the *Golden Self-Blanching*, but of a rich green color like the *Giant Pascal*. It is more readily blanched than the latter and ready for use much earlier in the fall. The plants make large bunches of extra heavy stalks with a very large heart. The entire stalk is solid and crisp, and of a rich golden yellow when blanched. . . . 5c pkt., 20c oz., 60c ¼ lb.



The Cumberland.



Early Spring Cabbage.



**Yellow Seeded Butter Lettuce.** with a mild, sweet flavor. It is one of the best late heading varieties. This variety will produce heads of truly immense size. . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.25 lb.

**Lettuce**

**Norwood Lettuce.** One of the best for forcing; extensively grown in this market by market gardeners; early and productive. A loose leaved variety . . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

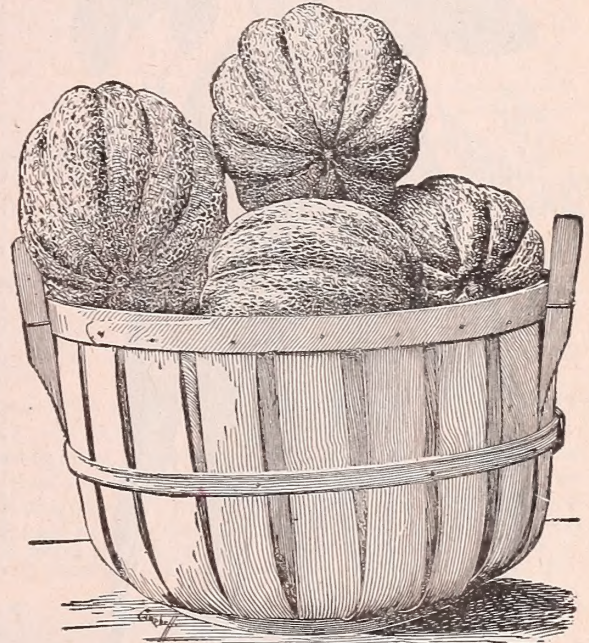
**Grand Rapids.** As a lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, light yellowish-green leaves, slightly crimped and blistered and rather thin, which will stand shipping long distances better than most sorts. . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

**Yellow-Seeded Butter.** A distinct sort, making a compact yellow head, of excellent flavor, withstands heat well and remains crisp and tender . . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

**Immensity Lettuce.** A strong growing and large heading late summer lettuce. The plants are of strong vigorous growth. The leaves are a rich bright green and grow well up around the large globular heads. They will measure eight inches and over and are tightly folded, so that the interior portion is beautifully blanched, crisp, and tender and rich soil, this variety. In a cool season and rich soil, this variety. . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.25 lb.

**MUSK MELON.**

**Paul Rose Musk Melon.** Cross between the old Netted Gem and Miller's Cream, and combines in a remarkable degree the good qualities of both. The fruit grows very uniformly, and of an attractive and useful size for packing. It is a very heavy cropper, the vines are very 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, very sweet and rich . . . . . 5c pkt.; 10c oz.; 35c ¼ lb.; \$1.25 lb.



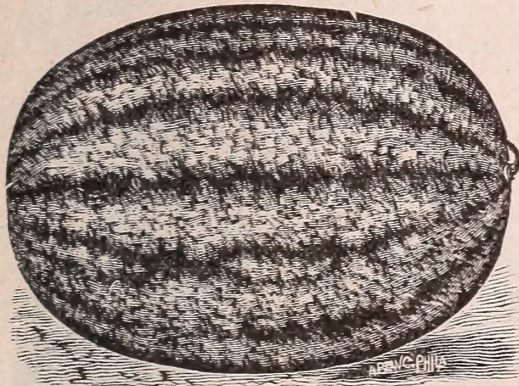
**Paul Rose Musk Melon.**

**WATER MELON.**

**Kleckley's Sweet Water Melon.** Vines strong and vigorous and the fruits grow uniformly to quite 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 rich, bright scarlet flesh is crisp, sugary and melting to the highest degree, being entirely free from any stringiness. The rich coloring of the flesh, together with its luscious sweetness combine to make it one of the finest table melons . . . . . 5c pkt.; 10c oz.; 30c ¼ lb.; \$1.00 lb.

**Hoosier King Water Melon.** A large variety, oblong shape, with skin striped light and dark green. The flesh is brilliant red, very solid sweet and luscious; the rind is thin but tough, making it a good variety for shipping. The beautiful markings together with its desirable shape, make it an attractive and saleable melon. . . . . 5c pkt.; 10c oz.; 20c ¼ lb.; 60c lb.

**Triumph Water Melon.** 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. It possesses all of the qualities that go to make up a desirable melon. . . . . 5c pkt.; 10c oz.; 25c ¼ lb., 75c lb.



**Hoosier King,**

**ONION.**

**Australian Brown Onion.** Is a most attractive market onion, very uniform and a fine appearance, being medium size, very hard and solid. It is very early, and never makes any stiff necks or scullions. When the plant is only three inches high, the bulb begins to form. Much earlier than the Red Wetherfield and ripening so uniform, it will make its mark. Owing to its firmness and hardness, it should keep longer in good condition than any other onion. The color is a clear amber-brown. . . . . 5c pkt.; 15c oz.; 40c ¼ lb.; \$1.00 lb.

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**Australian Brown Onion.**

## PEAS.

**Admiral Dewey Peas.** Height 3½ feet; foliage, vine and pod rich dark green; remarkably healthy and vigorous, producing in abundance; pods of largest size, frequently six inches in length, beautifully shaped and well filled with peas of largest size, tender and first-class flavor. Seed green wrinkled ..... 10c pkt., 20c pint, 35c quart, \$2.50 peck.

**McCullough's Improved Telephone Peas.** An improved strain of Telephone, being more productive, larger pods and superior quality. A first-class market-gardener's variety. .... 5c pkt., 20c pint, 35c quart, \$2.00 peck.

**Long Island Mammoth Peas.** A strong grower, producing mammoth pods containing ten to twelve large peas. When cooked they are a deep, dark green color and fine flavor. Add it to your order and you will be pleased ..... 5c pkt., 20c pint, 35c quart, \$2.00 peck.



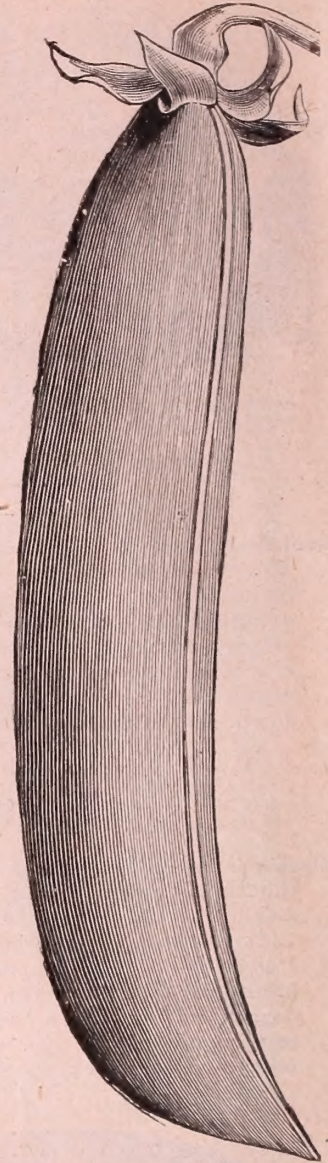
## RADISH.

**McCullough's Cincinnati Market—Original Strain Radish.** The radish so much grown by the Cincinnati market-gardeners, and is the handsomest long Radish in cultivation. It is a beautiful glossy scarlet, with a very small top, and grows from six to seven inches long. The skin is very thin, and the flesh crisp and brittle, and of a delightful pungent quality. It is undoubtedly the finest long red Radish for forcing, and will outsell any other on the market; and it is also an extra fine sort for the home garden, the quality being unexcelled. .... 5c pkt., 10c oz., 25c ¼ lb., 75c lb.

**Cardinal Globe Radish.** This Radish grows globular in shape, and is a brilliant cardinal color. The quality is fine, being crisp and tender; not only a good forcing Radish, but does well in open ground. .... 5c pkt., 10c oz., 25c ¼ lb., 75c lb.

**Crimson Giant Forcing Radish.** This new Radish is an entirely new type, and differs considerably from all the varieties hitherto in cultivation, in so far as its roots attain more than double the size of other forcing varieties, without getting pithy or hollow. The New Giant Radish develops roots of 6 to 7 inches in circumference and over an ounce in weight, their pure white flesh remaining firm and crisp and of the mildest flavor. It varies as to form, some of the roots being round and others inclining to oval, but its beautiful deep crimson color is quite constant. .... 15c pkt.; 3 pkts. for 35c.

**White Icicle Radish.** The finest early long white Radish; the young radishes are ready for use in 25 days, and continue to grow for a long time, fully retaining their crisp tenderness and mild flavor until quite large; most highly recommended. .... 5c pkt., 10c oz., 25c ¼ lb., 75c lb.



Admiral Dewey.

## TOMATO.

**Atlantic Prize Tomato.** One of the earliest varieties; comes in advance of such standard kinds as Acme, Beauty, etc. It bears in clusters, is of good size, smooth, round; color, scarlet. .... 5c pkt., 25c oz., 70c ¼ lb.

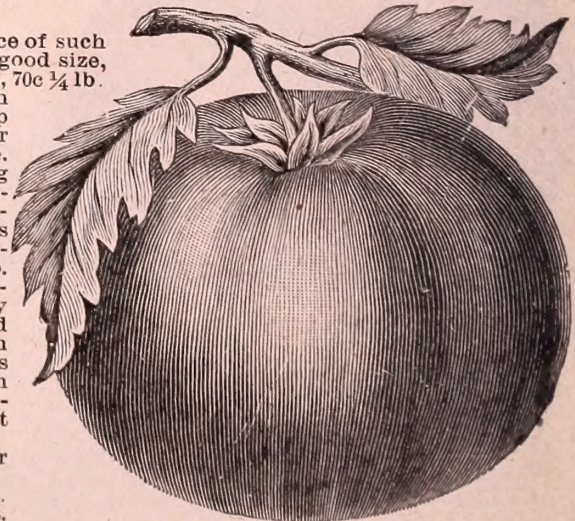
**Magnus Tomato.** A distinct variety; color, rich glossy crimson, with a slight purple tinge. While perfectly adapted to main crop planting, yet it matures so quickly that it will take first rank for early market. The form is perfect, uniform, large and attractive. Flesh is very firm. It is a robust grower, with short joints, setting its fruit clusters closer together than most varieties, and is therefore a heavy cropper. The fruits are very deep from stem to blossom end, many of them being almost globe-shaped. It ripens evenly, does not crack about the stem, and the flavor is most desirable. .... 5c pkt., 25c oz., 70c ¼ lb., \$2.00 lb.

**Norwood Tomato.** The first large Tomato to ripen; remarkably prolific; flesh thick and solid. In this new Tomato we have a variety of exceptional merit, coming into use as early as Early Ruby and other small and unshapely extra early sorts. It is perfectly smooth and symmetrical in shape, and as large as Perfection. 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 fine quality, with few seeds. It is an excellent shipper. Does not crack or rot.

The Norwood is the most profitable Tomato for the market gardener and trucker, and is unsurpassed for canning purposes. .... 5c pkt., 30c oz., 90c ¼ lb., \$3.00 lb.

**Trucker's Favorite Tomato.** 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. A good main-crop variety either for home use or for market. .... 5c pkt., 30c oz., 90c ¼ lb., \$3.00 lb.

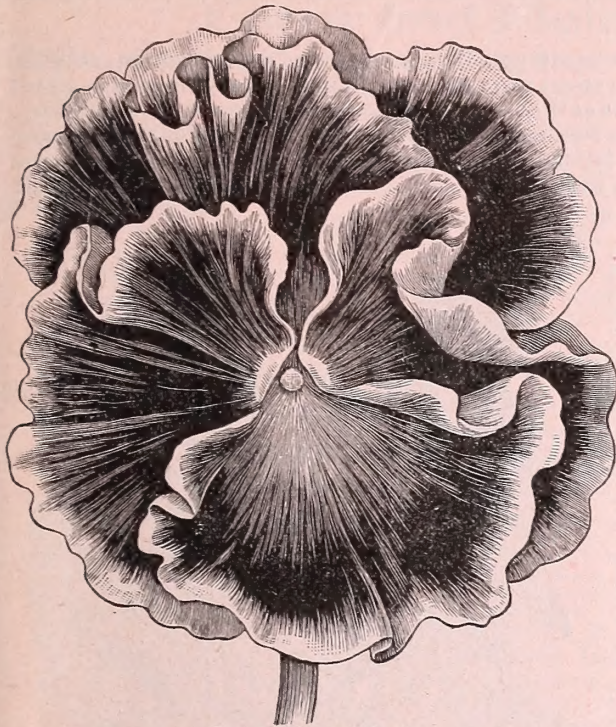
**Strawberry, or Winter Cherry (Husk Tomato).** Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe, the fruits are half an inch in diameter, bright yellow, and of very sweet flavor, highly esteemed for preserving or making pies. They are also excellent to eat raw as fruit. .... 5c pkt., 25c oz.



Norwood Tomato.

Though such a productive variety it ripens a large





**Pansy Masterpiece.**

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. Under the influence of the bright sunlight the flowers 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, a lovely combination of colors. Being of very easy culture, the plants produce their splendid flowers most abundantly and in constant succession from early Summer to the Autumn. 10c pkt.; 3 pkts. 25c.

**Flower Seed Novelties and Specialties.**

**PANSY—Masterpiece.** The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled. The flowers are perfectly round and contains the richest combination of colors, that have ever been offered in a five spotted Pansy. Each petal is distinctly marked with a very large dark blotch and most of the flowers are margined with a light, white or yellow edge ..... 25c

**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 ..... 25c

**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 if cultivated properly will give an abundance of very large flowers of unsurpassed brilliancy of color and distinct markings. Florists and amateurs desiring charming "show" flowers should not neglect this strain, as it is the result of many years' careful selection and hybridization and embraces all the attractive features that tend to make the Pansy; the people's flower ..... ¼ oz. \$2.00; 25c

**ANTIRRHINUM—Queen Victoria.** This is the finest large flowering pure white Snapdragon, yet offered; unusually large, are borne on long and graceful stalks; splendid either for borders or cutting ..... 15c pkt.; 2 pkts., 25c

**ARCTOTIS GRANDIS—THE AFRICAN LILAC DAISY**

A handsome new annual from South Africa, growing luxuriantly and forming profusely branched bushes of about 2 to 2½ feet in height and breadth. Its flower-heads, borne on long, strong stems, and when cut will stand for several days in good condition. The plant is a strong grower, of the easiest culture, flowering continuously from early Summer till Autumn. Finest mixed ..... 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 pkt., 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. 10c pkt.; 3 pkt. 25c.

**CENTAUREA—Imperialis.** This beautiful class is the result of a cross between *C. Moschata* and *C. Marguerite*, and inherit from the latter the beautiful sweet-scented, artistic-shaped flowers, but much improved in size and borne on long, strong stems, and when cut will stand for several days in good condition. The plant is a strong grower, of the easiest culture, flowering continuously from early Summer till Autumn. Finest mixed ..... 10c pkt.; 3 pkt., 25c.

**CENTAUREA—Depressa.** (King of Corn-flowers.) In this new variety the clear deep blue flowers are much larger. Plant also larger and more vigorous; a great improvement ..... 10c pkt.; 3 pkt., 25c.

**CHRYSANTHEMUM—Segetum Helios.** (Annual Golden Marguerite.) This is a splendid annual for cutting. 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, or Marguerite, but with the added advantage of requiring only the culture of an ordinary annual ..... 20c pkt.; 3 pkt., 50c.

**COSMOS—Giant Rainbow.** One of the most magnificent new Cosmos that has yet been introduced; large lacinated and frilled flowers, often 3½ to 4 inches in diameter, borne on tall graceful plants, consisting of the finest shades of white, cream, blush and mauve; some are daintily flecked like birds eggs, others have markings of red, lavender and pink. It is perfection in form and color; of this valuable cut flower now so largely in demand ..... 15c pkt.; 2 pkts., for 25c

**STAR PETUNIAS.** The difference from other petunias is the blossoms, which are marked with a star in the center. This star, from which the name is taken, varies in size. Rays of crimson often run through the star and line the edge. In some of the flowers, these crimson markings give it a feathery appearance. The color may be called a purple crimson, but it has a velvety depth and richness which cannot be described.

The plant is dwarf, 18 inches to 2 feet, more delicate than the original type, a free bloomer, bearing over 100 blooms to a plant, while as many as 180 have been counted on a single specimen at one time. The blossoms are of good substance of petal and of the velvety appearance of pansies ..... 10c pkt.; 3 for 25c



**Star Petunias.**

**DAHLIA, TWENTIETH CENTURY.**

—(New Orchid Flowered Single Dahlia.) A grand novelty, the plants grow 5 feet high, strong and vigorous; producing a mass of flowers on stems 2 to 3 feet long. The flowers are large size,  $4\frac{1}{2}$  to 7 inches across; the color is a rich rosy-crimson, passing to white at the tips. As the season advances the colors lighten, until finally they come clear white, suffused with rose. Single Dahlias are as easily raised from seed as the commonest annuals. Sown in the open ground when the weather has become warm, they flower in August. For the longest possible season of bloom it is better to start the seed indoors or in a hot-bed.....25c pkt., 5 pkts. \$1.00.

Roots 50c Each, \$5.00 Dozen.

**NASTURTIUM, JUPITER.**

—New Giant Flowered Climbing variety from California. "As beautiful as an Orchid," has been remarked of this magnificent flower, the precursor of a new race of giant Nasturtiums. The plants are very strong and vigorous with large dark green foliage. The great, rich pure yellow flowers measure  $3\frac{1}{2}$  inches across. The petals are large— $1\frac{1}{2}$  inches in diameter, they overlap and are exquisitely and deeply crinkled like crepe. The flowers are very fine for cutting, resembling orchids in their rich beauty. A grand and distinct variety. 10c pkt., 3 pkts. 25c, 50c oz.

**POPPY, IRRESISTABLE.**

—Giant pæony flowered. A splendid giant poppy, resembling an immense pæony. Color light red, shaded lighter at edge of petals; strikingly beautiful .....10c pkt., 3 pkts. 25c.

**POPPY, MAID OF THE MIST.**

—New Giant White. A magnificent, new, 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, suggests a pretty face looking out from the mist. 10c pkt., 3 pkts. 25c.

**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 unique and elegant foliage is very abundant, and has an extremely fresh and healthy appearance. The intense bright scarlet flowers are very large and the plants of neat compact habit. A charming variety of great effect .....10c pkt., 3 pkts. 25c.

**SCABIOSA CAUCASIA PERFECTA.**

—Fine, large and fringed, new variety. 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.

**SHASTA DAISY.**

—This is a grand, large-flowering Daisy, originated by Luther Burbank, and improved by careful selection. The plants are entirely hardy, are very robust in growth, and produce larger and finer flowers each season as the plants increase in strength. Small plants do not flower until late the first summer, but when well established large flowers are produced freely throughout the second season. The flowers measure fully 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. As the large flowers come singly on a stiff slender stem nearly 2 feet in length, they are especially useful as cut flowers to arrange in tall vases, etc., as well as most showy bloomers for planting in beds or borders of perennial or hardy flowers.....25c pkt., 5 pkts. \$1.00



Salvia Splendens Silver Spot.

**JAPANESE FERN BALLS.**

—Is composed of Japanese Island Fern Roots and Sphagnum Moss, and so constructed as to send out leaves beautiful dark green from every point. They are easy to take care of, and if let dry out about every three months and allowed to rest a while, they will last indefinitely.

Don't fail to order some, as from the satisfaction they have given the demand is beyond the supply.

**Directions.**—Place the ball in water for one hour, and then hang in a desirable position; in two days dip again for fifteen minutes, and repeat every two days till the growth is started, after which only dip twice a week for five minutes at a time. Order now and make sure of them.

Large size, dormant.....50c each; 3 for \$1.25.

If wanted by mail, 15c each, extra.

Large size, in leaf, \$1.25; by express, not prepaid.

**THE GIANT-FLOWERING CALADIUM, NEW CENTURY.**

—A new species, introduced from Central America. It produces leaves from three to five feet long, two to two and one-half feet broad, and is much larger than the ordinary Caladium or Elephant's Ear. The leaves are of a heavy leathery texture, bright glossy green color, with metallic lustre and are held on stout, stiff stems well above the ground. Added to the foliage effect are the creamy white Lily-like flowers, from twelve to fifteen inches long, which possess an exquisite fragrance, and are produced throughout the summer..... Price, 25c each.



Fern Ball in Leaf.

adium or Elephant's Ear. The leaves are of a heavy leathery texture, bright glossy green color, with metallic lustre and are held on stout, stiff stems well above the ground. Added to the foliage effect are the creamy white Lily-like flowers, from twelve to fifteen inches long, which possess an exquisite fragrance, and are produced throughout the summer..... Price, 25c each.

## Farm and Field Seed Specialties.

### CORN—McCullough's Champion White Dent

The earliest White Dent Corn. Will mature in ninety 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 peck; \$1.25 bu.; 2 bu. \$2.30.



McCullough's Champion White Dent.

### CORN—Peerless.

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. It is known to have been successfully grown 100 miles north; 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. Peerless corn was awarded the following prizes in 1902. Sweepstake Prize at Indiana State Fair. First Prize at Illinois State Fair, in 1 bushel class, open to the World . . . . . 40c peck; \$1.25 bu.; 2 bu., \$2.30

### 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.; \$2.50.

### WHITE KAFFIR CORN.

It grows from four to five feet high, making a straight, upright growth. It has a stalky stem, with enormous wide leaves. The stalks keep green and are brittle and juicy, not hardening like other varieties of sorghum, 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 stock, 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 three feet apart, 3 to 5 lbs., of seed to the acre. For fodder sow 25 to 50 lbs., either broadcast or in drills. 5c lb.; 10 lbs., 40c; 100 lbs., \$2.25.

### Tennessee or German Golden Millet.

True Southern Grown Seed is worth double that of Northern or Western Grown, if you want a good crop of hay or seed. 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. This is due to the fact that German Millet is a native of a warm climate

### The True Tennessee Millet

is planted in drills and cultivated with a view of getting the best results in quality and quantity of seed. Therefore, we have again secured this season a full supply grown expressly for seed, which we know will give the very best satisfaction to the farmer. . . . . 50c peck; \$1.50 bushel.

### SIBERIAN MILLET.

Valuable for all sections of America. It is the greatest stooler ever introduced. Six quarts will sow an acre. It is without exception the heaviest yielding millet, giving several times the yield of any other variety. It has been thoroughly tested in all sections of America and Canada, and the reports from different parts of this country prove that it will in time take the place of all other varieties. It does not grow rank or coarse, but the entire stalk is of such excellent quality that it is readily eaten. Although there are numerous blades, they are as fine as can be, making it of the greatest value to farmers everywhere. The various reports received from the drought stricken districts show that it will stand more hot, dry weather than any other sort, and it has been known to yield heavily when other varieties failed almost entirely.

**A FEW REASONS WHY THE SIBERIAN MILLET IS THE BEST VARIETY EVER INTRODUCED.**  
No other millet equals it in profusion of blades or quality.

It is extra early, usually about two or three weeks earlier than the German or Golden.

It surpasses every other millet in yield, very hardy and possessed of unusually vigorous habit.

It makes the best hay, as it produces the greatest profusion of blades, and is unequalled in quality while the yield is something enormous. . . . . 35c peck; \$1.15 bushel.

### PEARL MILLET, or "Pencilaria."

This quick growing forage plant has been long known under the name of *East India* or 'Cat-tail Millet'. Sown in drills four feet apart and cultivated like corn the plants attain a height of eight to ten feet, with slender stalks and slender long-bladed leaves. These stalks can be cured for winter use and the seed makes an excellent poultry food, but the best use of the plant is to cut the stalks for green forage when about three feet high and allow the plants to make a second growth for fall feeding and ensilage. The edges of the leaves are set with small sharp spines, and we find that dairy cows do not eat it so readily as they do other forage plants, hence it should be cut while young and tender, or the stalks should be made into ensilage which will soften the small spines. Sown in rows three and a half to four feet apart, three to four pounds of seed are required for an acre.



Tennessee or German Golden Millet.

One-third natural size.

When sown broadcast or drilled in rows, twelve to eighteen inches apart, eight to ten pounds per acre should be used. Seed should be sown thinly as the plants stool very freely.

Per lb., 15c; 10 lbs., \$1.20; 100 lbs., \$10.00.

**Japanese Barnyard Millet.** This valuable new forage plant was introduced into this country by Prof. Brooks of the Massachusetts Agricultural Experimental Station. 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 20 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, 8 pounds per acre is plenty. Per lb., 15c, 10 lbs., \$1.20; 100 lbs., \$10.00.

### 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 lbs. to the acre, but is better drilled, in which case 3 lbs. to the acre will suffice. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned in on it; all reports agree that they gain weight faster on this than any other fodder, as it can be sown after other crops are off; the gain in fodder is secured at a nominal cost. Stockmen, Dairy men and Farmers have proved its value. Lb., 10c; 10 lbs. 75c; 100 lbs. \$6.00



Dwarf Essex Rape.

Lb., 10c; 10 lbs. 75c; 100 lbs. \$6.00



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, it is unequaled; the immense quantity we annually sell is the best proof we can offer. 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 15 x 20, 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 unailing mark of intelligence and taste, to obtain which the main point is to start right. It is now a decided fact that seed will make a better lawn than turf or sod. The best soil is a good medium texture, neither very heavy or excessively light; the surface should be raked repeatedly, thoroughly pulverized, and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken. As portions sink, the hollows should be firmly filled, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain, and at the best time for lawn making (April) these are usually sufficiently abundant. When the soil is firm, level and suitably moist, sow "SUBURBAN" LAWN GRASS SEED at the rate of four bushels (64 lbs.) per acre. One pound is sufficient to sow a small yard 15 x 20 feet, or 300 square feet. 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 three or four 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 to 600 lbs. to the acre) should be used.

### Suburban Lawn Grass Seed.

Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 5 lbs., \$1.00; 1 bu. of 16 lbs., \$3.00. If wanted by mail add 10c per lb. extra.

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

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

**McCullough's Golf Link Grass Seed.**—We have given much attention to grasses for *Golf Links*. The mixtures 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.

**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 wash-out.

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

1903



# VEGETABLE SEEDS

## General List.

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 seeds 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 supplied at pound rates; half bushels at bushel rates.

### 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.

<b>For 25c</b> select 6 five-cent packages of Vegetable Seeds	} These prices do not refer to seeds offered by weight or measure, but to seeds in PACKETS ONLY.	
<b>For 50c</b> " 13 five cent " " " "		
<b>For \$1</b> select Seeds in packets only to the amount of.....		\$1.30
<b>For \$2</b> select Seeds in packets only to the amount of.....		2.65
<b>For \$3</b> select Seeds in packets only to the amount of.....	4.00	

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 1/4 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.

**I**N EARLY spring sow the seed, after soaking it twenty-four hours in warm water, in drills about one foot apart and one inch deep. The soil should be very rich and well worked. Later, thin plants to three or four inches apart in the rows, and cultivate often and thoroughly through the summer. 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 three 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. 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 but if this is done all the short shoots, no matter how small, should be cut, and after the final cutting, give a good dressing of manure, ashes and salt. In the fall, as soon as the tops are ripe and yellow, they should be cut and burned. The plants may also be set in the fall, if the ground is so well drained that water will not stand on it. The quickest way to obtain a supply is to plant the roots. Two-year-old roots will insure the best and earliest results.

	PKT.	OZ.	1/4 LB.	LB.
<b>Barr's Mammoth.</b> A fine, large-stemmed green variety.....	5c	10c	25c	\$0.65
<b>Columbian Mammoth White.</b> Pure white stalks, large size and finest quality.....	5c	15c	40c	1.00
<b>Conover's Colossal.</b> One of the best varieties, large and productive.....	5c	10c	25c	.60
<b>Palmetto.</b> An improved variety. Very early and a good yielder.....	5c	10c	25c	.65

## ASPARAGUS ROOTS.

	Two-year-old roots.....	PER 100	PER 500	PER 1,000
<b>Barr's Mammoth.</b>	.....	\$1.00	\$4.25	\$7.00
<b>Colossal.</b>	.....	.80	3.75	6.00
<b>Columbian Mammoth White.</b>	.....	1.00	4.25	7.00
<b>Palmetto.</b>	.....	1.00	4.25	7.00

*Round Pod Stringless Beans*  
*Valentine*

# BEANS (Bohne, Ger.)—Dwarf or Bush.

## Dwarf Green Podded Sorts.

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.



McCullough's Improved Round Pod Red Valentine.

	Pkt.	Pt.	Qt.	Pk.
<b>Norwood Giant Stringless Green Pod.</b> Extra early, pale green color, perfectly stringless, long round, full fleshy pods; very prolific, and excels in crispness and flavor .....	05	15	30	2.00
<b>McCullough's Improved Round Pod Red Valentine.</b> Ten days earlier than the Early Valentine, and ready to pick thirty-five days after planting. The pods are thick and fleshy, of finest quality, and unequalled in uniformity of ripening. One of the most profitable sorts for the garden.....	05	15	25	1.75
<b>Red Speckled Valentine.</b> The old variety.....	05	10	20	1.30
<b>Extra Early Refugee.</b> Early and productive, will stand a light frost; one of the best string or pickling beans.....	05	15	25	1.50
<b>Improved Refugee, or Thousand to One.</b> Medium or late variety, extensively grown for pickling.....	05	10	20	1.30
<b>Long Yellow, Six Weeks.</b> Very early, productive, and a good shell bean.....	05	15	25	1.75
<b>Early Mohawk.</b> Very early and will stand more cold than most of the bush varieties.....	05	15	25	1.50
<b>Horticultural Dwarf.</b> Excellent quality as a shell bean, either green or dry... ..	05	15	25	1.75
<b>Best of All.</b> Early and of superior quality; round, green pods.....	05	15	25	1.75
<b>White Kidney or Royal Dwarf.</b> A superior kind for baking, and is also excellent when shelled green.....	05	15	25	1.25

	Pkt.	Pt.	Qt.	Pk.
<b>Burpee's Stringless Green Pod.</b> This variety is positively stringless and remains tender and crisp. The pods are of pale green, long and straight, perfectly round and meaty, maturing with the earliest of the green pod varieties .....	05	15	25	1.75
<b>White Marrowfat.</b> Grown for sale as a dry bean for winter use; excellent shelled, either green or dry.....	05	15	20	1.25
<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	20	1.00
<b>Navy.</b> The old standard sort for winter use.....	05	10	20	1.00
<b>Henderson's Bush Lima.</b> Produces enormous crops of delicious Lima Beans, which can be as easily gathered as the common bush beans.....	05	20	35	2.25
<b>Burpee's Bush Lima.</b> 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	20	35	2.25
<b>Dreer's Bush Lima.</b> A Dwarf variety of the Dreer's Improved Lima which has been fixed in its character of a bush bean; it is prolific, grows close together in pods, and are thick, sweet and succulent.....	05	20	35	2.25



Burpee's Bush Lima.

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 — Dwarf or Bush. *Continued.*

## Yellow-Podded Wax Varieties.

	Pkt.	Pt.	Qt.	Pk		Pkt.	Pt.	Qt.	Pk
✓ <b>Round Kidney Wax.</b> Seespecialties, ...	05	20	35	2.50	✓ <b>Valentine Wax.</b> An extra early Valentine Bean, with round wax pods. Without exception the earliest, being earlier than Golden Wax. Pods are meaty, and so very little string they may be called stringless. Remarkably free from rust, and remains a long time without becoming tough; recommended to market gardeners on account of heavy cropping qualities.....	05	15	30	2.00
✓ <b>Golden Wax.</b> Our stock of this desirable variety has become so well and favorably known as to warrant us in making a distinction between our stocks and those usually offered, as ours are a strong-growing, distinct variety. The pods are long, brittle and entirely stringless.....	05	15	30	2.00	✓ <b>Davis Kidney Wax.</b> Pods long, straight, oval, clear, waxy white color, growing to a length of seven to eight inches; are stringless and fine flavor.....	05	15	30	2.00
✓ <b>Improved Black Wax.</b> Improvement on the old Black Wax; pods waxy yellow, very tender and productive.....	05	15	30	2.00	✓ <b>Yosemite Wax.</b> The largest pods of any wax variety, 8 to 10 inches in length. Golden yellow color, stringless. Productive and of excellent quality.....	05	20	35	2.25
✓ <b>Wardwell's Kidney Wax.</b> Vine of medium size, erect, hardy and productive. Pods long, broad, flat and of a waxy yellow, brittle and stringless.....	05	15	30	2.00					
✓ <b>Pencil Pod Wax.</b> Pods round, long, thick and fleshy; absolutely stringless; prolific, excellent quality.....	05	15	30	2.00					

# BEANS (Stangen Bohnen, Ger.)—Pole or Running.

One Quart will Plant 150 Hills.

The 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 centre. 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.



Lazy Wife Pole Bean.

	Pkt.	Pt.	Qt.	Pk
✓ <b>McCullough's Extra Large Lima.</b> The most buttery and delicious bean grown, both for market or family use..	05	20	35	2.00
✓ <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	20	35	2.00
✓ <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	20	35	2.00
✓ <b>Seibert's Early Lima.</b> The earliest of all the large Limas. Green, they are larger than any other variety. Vine is hardy and vigorous, continues in bearing longer than any other. Of better quality, a decided improvement in large Limas and cannot fail to become a favorite.....	05	20	35	2.00
✓ <b>Kentucky Wonder, or Old Homestead.</b> This we regard as far ahead of any other green pole bean. In our trial grounds last summer, 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	20	35	2.00
✓ <b>Cut Short, or Corn Hill.</b> Used among corn, the best for this section.....	05	15	25	1.75
✓ <b>White Creaseback.</b> It is a good grower, and very productive. Pods five to six inches long, perfectly round, with a crease in the back. The pods are <i>stringless</i> , very fleshy and of superb quality.....	05	15	25	1.75
✓ <b>Horticultural (Wren's Egg, or Speckled Cranberry).</b> Productive and tender. Is an excellent corn bean.....	05	15	30	2.00
✓ <b>King Horticultural.</b> 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.....	05	15	30	2.00
✓ <b>Southern Prolific.</b> Produces, in clusters, excellent short beans in eighty days. Is early, productive, and bears till frost.....	05	15	25	1.75
✓ <b>Scarlet Runner.</b> A beautiful ornamental climber. Bright scarlet flowers.....	05	20	40	2.50
✓ <b>Dutch Case-Knife.</b> Very productive and one of the earliest, sometimes used as snaps, but generally shelled. A good market sort.....	05	15	25	1.75
✓ <b>Lazy Wife.</b> An excellent late green-podded pole bean. Pods of a 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.....	05	20	30	2.00
✓ <b>Golden Cluster Wax.</b> The pods are from six to eight inches long; stringless, very tender and of delicious flavor.....	05	15	30	2.00
✓ <b>Golden Andalusia.</b> The most productive of all the pole varieties; beans pure white, round; makes an excellent dry bean for winter use.....	05	15	30	2.00

*Ohio Navy Pole Beans*

# 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.



May crop Blood Beets



Crosby's Beet.

	Pkt.	Oz.	1/4 lb.	Lb.
✓ McCullough's "Norwood" Turnip. One of the most uniform of all Beets, with very small tops of bronzy red. The bulbs are handsome and round, very smooth, and of good marketable size. Skin, deep blood red; the flesh, dark.....	05	10	20	60
✓ Detroit Dark Red Turnip. See specialties, .....	05	10	25	75
✓ Crosby's Improved Egyptian. Extra early. An improved strain of the Egyptian Beet, in great repute in the Boston market. It is much thicker than the original strain, quite as early, of better color and quality, besides being smoother.....	05	10	25	75
✓ Columbia. See specialties, .....	05	10	25	75
✓ Eclipse. One of the best early sorts. The roots are a bright glossy red, fine-grained and delicious.....	05	10	20	50
✓ Lentz's Early Blood Turnip. 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
✓ Extra Early Flat Egyptian. A standard sort, earlier than the blood turnip. Large size, crimson color, small tops.....	05	10	20	50
✓ Edmand's Early Turnip. Uniform small top, bronzy red. Exceedingly tender and sweet; skin, blood red; flesh, dark red.....	05	10	20	60
✓ Bastian's Early Blood Turnip. Extra early, of quick, large growth; flesh, tender.....	05	10	20	60
✓ Early Blood Turnip. Flesh dark red color; a standard round variety, with small top.....	05	10	20	60
✓ Bassano. (The Table Sugar Beet.) Very early, tender and sweet, rose color; grows to a good size.....	05	10	20	60
✓ Long Dark Blood. An old standard variety, and a splendid keeper.....	05	10	20	60
✓ Swiss Chard, or Spinach Beet. Cultivated for its leaves.....	05	10	20	60
✓ Sugar Beets and Mangel Wurzels. See page 76.				

## BROCCOLI. (Spargle Kohl, Ger.)

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

✓ Early Large White.....	05	25	1.00
✓ Early Purple Cape. Differs in color.....	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.

✓ Dwarf Improved.....	05	25	75
-----------------------	----	----	----



# CABBAGE (Weisskopf Kohl, Ger.)

One ounce will produce 1,500 plants. Quantity to transplant one acre, one-half lb.

**T**HE early varieties of Cabbage are cultivated more extensively than any other vegetable. In latitudes where the thermometer never indicates 20° below the freezing point, seed may be sown in the open border in October, and planted out on the first opening of spring; but in the Northern States they must either be sown in hot-beds in February, or, what is still better, wintered over in cold-frames; for this purpose, the seed is sown from the 10th to the 20th of September. Attention to date is important; if too soon the plants might run to seed, and if too late they would be too small. In four or five weeks from the time of sowing they will be fit to transplant into the cold-frames. In planting, it is very important with Cabbage or Cauliflower, that the plant is set down to the first leaf, so that the stem is all under ground, for, if exposed, it will be split by the action of the frost, and will be injured in consequence. The plants are usually set out from the middle of March to the middle of April, in rows about two feet apart and eighteen inches between the plants in rows. The earliest crop matures in June. For second early, the early kinds should be sown first week in April, and planted out in May. The 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 three feet between the rows, and two 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 wood ashes, air-slacked lime, plaster, slug-shot or tobacco dust, early in the morning while the plants are wet with dew.

**Our Seed is grown from selected heads, and saved from center shoots.**

McCullough's Early Louisville Drumhead.



✓ **MCCULLOUGH'S  
EARLY  
LOUISVILLE  
DRUM-HEAD**

Originated in this market and is now the principal market variety all through this part of the country. It is highly esteemed by the market gardeners, and it will stand hot weather better than other sorts; will stand the entire summer without bursting. 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 it 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. ¼ lb. Lb.

*The Genuine Louisville can only be obtained from J. M. McCullough's Sons.*

✓ <b>Etampes.</b> One of the earliest cabbages in cultivation, having solid, compact heads of conical form, and of a yellowish green color.....	05	20	50	1.75
✓ <b>Early Winnigstadt.</b> A solid and tender variety; good for either early or late. Desirable for private gardens.....	05	20	50	1.50
✓ <b>Early Spring.</b> See specialties.....	05	20	60	2.00
✓ <b>Early Jersey Wakefield (Select Stock).</b> An improved strain of this celebrated Cabbage. Heads remarkably hard and solid; pyramidal in shape, generally pointed at the end, and having few outside leaves; excellent quality.....	05	20	60	2.00
✓ <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	60	2.00
✓ <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	60	2.00
✓ <b>All Head, Early.</b> The largest heading of the second early sorts, of excellent quality. The deep flat heads are remarkably solid, and very uniform in size, of a very compact growth, having few outer leaves.....	05	20	60	2.00
✓ <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	60	2.00
✓ <b>Early Dwarf Flat Dutch.</b> Large solid heads of fine flavor. An excellent variety.....	05	20	50	1.75
✓ <b>Improved Brunswick.</b> An excellent second early, large heading Drumhead Cabbage. Produces a fine solid head of good quality.....	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.

# CABBAGE—Continued.

## Late or Winter Varieties.



Charleston Wakefield.

- |  | Pkt. | Oz. | ¼lb. | Lb.  |
|--|------|-----|------|------|
| ✓ <b>McCullough's Premium Flat Dutch.</b> A variety for winter market; has no superior. Heads large, round, solid, broad and flat on top. They open white and crisp, are tender and well-flavored. The best variety for keeping. Our stock has been carefully selected for several years. No better strain is on the market..... | 05   | 15  | 50   | 1.50 |
| ✓ <b>Autumn King.</b> A fine strain of late Cabbage. It produces regular, even heads of enormous size, and can be relied upon to produce a greater weight of crop from the same space of ground than most of the late sorts, from the fact of its producing so few outer leaves.....   | 05   | 20  | 60   | 2.00 |
| ✓ <b>Danish Ballhead.</b> 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 |
| ✓ <b>Large Late Drumhead.</b> Extra stock. Is the "sauerkraut" Cabbage of the Germans. A large size; the flat, solid heads often weighing fifteen to twenty pounds. A sure header, good keeper and shipper...  | 05   | 15  | 50   | 1.50 |

## 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.



McCullough's Premium Flat Dutch.

- |   | Pkt. | Oz. | ¼lb. | Lb.  |
|---|------|-----|------|------|
| ✓ <b>American Drumhead Savoy.</b> Heads large and very finely curled; short stalk and compact grower; an excellent keeper. Far superior to the ordinary imported Drumhead Savoy, seed of which we could supply at half the price..... | 05   | 20  | 60   | 2.00 |
| ✓ <b>Green Curled Savoy.</b> Heads large, very solid and compact, of a yellowish-green color, and, like all others of the Savoy varieties, is of excellent flavor.....  | 05   | 20  | 60   | 2.00 |

## Red Cabbage.

- |   |    |    |    |      |
|---|----|----|----|------|
| ✓ <b>Early Red Dutch Erfurt.</b> Earlier than the Red Drumhead, but equally as valuable for pickling.....                           | 05 | 20 | 60 | 2.00 |
| ✓ <b>Red Dutch Drumhead.</b> A large-heading variety, fine for pickling. The variety most sown, as it makes large, solid heads..... | 05 | 20 | 60 | 2.00 |
| ✓ <b>Mammoth Rock Red.</b> The largest and most solid of the red varieties; a sure heading sort and tender.....                     | 05 | 25 | 75 | 2.50 |

## CRESS.

Sow thickly in shallow drills, early in 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.



American Drumhead Savoy Cabbage.

- |   |    |       |     |      |     |        |     |     |
|---|----|-------|-----|------|-----|--------|-----|-----|
| ✓ <b>Extra Curled, or Peppergrass.</b> Fine flavor, and the best for dry soils.....                                       | 5c | pkt., | 10c | oz., | 20c | ¼ lb., | 50c | lb. |
| ✓ <b>Erfurt Water Cress.</b> A desirable and appetizing salad, thriving best in shallow water, on the edges of streams... | 5c | pkt., | 35c | oz.  |     |        |     |     |

## CHIVES.

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

## CHICORY.

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

## COLLARDS (Blatter Kohl, Ger.)

A species of Cabbage. Cultivate in the same manner. **Georgia Grown**.....5c pkt., 10c oz., 30c ¼ lb.

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.

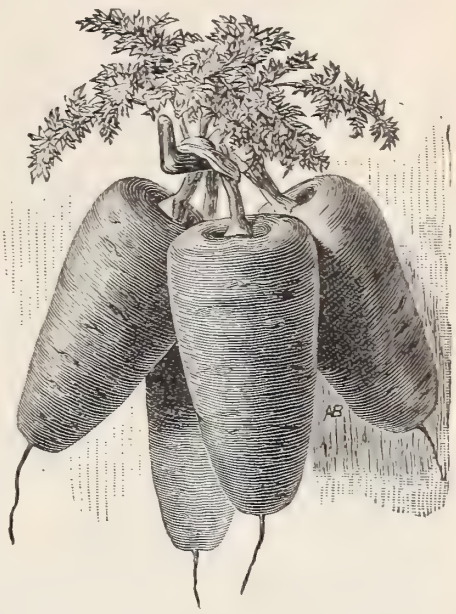
# CARROT. (Mohre, Ger.)

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

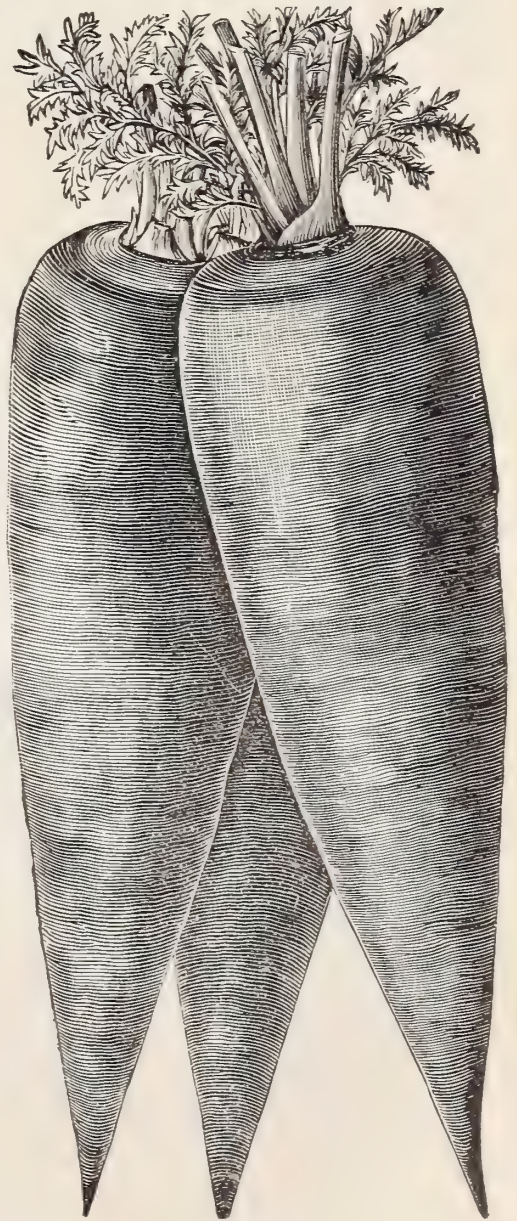
**L**IGHT, sandy loam, well-tilled and manured the previous year, best suits the Carrot. For early crop, sow as early as the ground can be worked, in drills ten inches apart, and thin five inches in the rows.

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.	¼lb.	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>Banvers.</b> A handsome, cylindrical-shaped Carrot of good size, and stump-rooted. It is of a rich dark orange color, grows to a large size, is smooth, and the flesh very close in texture, with little core. It is a first-class Carrot for all soils.....	05	10	25	75
<b>Chantenay Half-Long Scarlet.</b> A stump-rooted variety, somewhat resembling the well-known Nantes Carrot, but having a larger shoulder, and being much more productive.....	05	10	25	75
<b>Half-Long Scarlet Nantes.</b> A stump-rooted variety, having little or no core. Flesh red, and of fine flavor.....	05	10	25	75
<b>Improved Rubican.</b> Half-long. See specialties, .....	05	10	30	80
<b>Guerande or Oxheart.</b> A thick Carrot, five inches long and very blunt at the lower extremity. It grows very rapidly, and the roots attain a weight of more than a pound. 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; they are of good size, being from ten to twelve inches in length, and two to three inches in diameter at the top. 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



Chantenay.



Intermediate.

## FIELD VARIETIES FOR STOCK.

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

	Pkt.	Oz.	¼lb.	Lb
<b>Improved Giant Short White.</b> This is the heaviest cropping Carrot grown, yielding more tons to the acre than any other sort. The flesh is white, solid, crisp and very sweet, the roots are short and very heavy at the shoulder which allows them to be harvested very easily. They do not break easily in pulling or storing, owing to their solidity and shape. One of the most profitable Carrots; cattle and horses like it.....	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



## CORN SALAD OR FETTICUS.

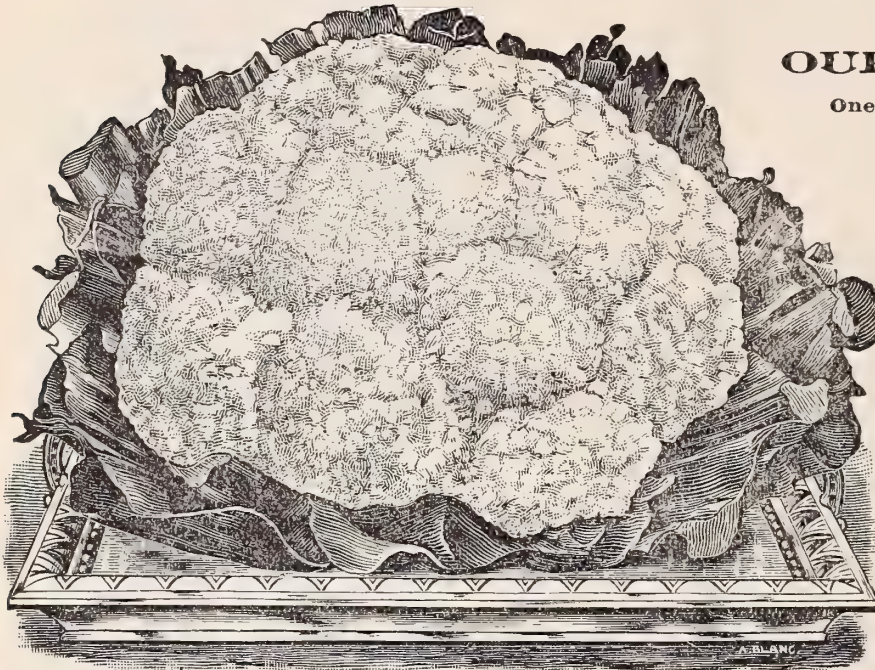
(Ackersalat, Ger.)

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

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

	Pkt.	Oz.	¼lb.	Lb
<b>Large Seeded</b> .....	05	10	20	50
<b>Small Seeded</b> .....	05	10	20	50

# CAULIFLOWER.—(Blumenkohl, Ger.)



McCullough's Earliest Dwarf Erfurt Cauliflower.

## OUR SPECIALTY.

One Ounce of Seed for 1000 Plants.

**S**OW for early use about the middle of September or October, in a bed of clean, rich earth. Transplant in frames and cover with sashes and shutters during severe weather, giving them light and air every mild day. When this is not practicable, they may be had nearly as well by sowing the seed in a hot-bed in January or February, and when the plants are large enough transplant three inches apart in boxes, or in other hot-bed, until time to plant out. If hardened off, they are seldom injured by planting out as early as the ground can be properly prepared, 2½ feet apart each way. Keep them well hoed, and bring the earth gradually up to their stems, watering freely in dry weather, and especially when they begin to head. The Cauliflower succeeds best when planted in frames at the close of winter and brought to maturity before the summer heat sets in. The late varieties mature in the autumn, and are sown and managed similar to winter Cabbage.

Special Prices given to Market Gardeners and others who use large quantities of Seed.

McCullough's Earliest Dwarf Erfurt. This has become the 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. The compact and solid texture of the snow-white heads, combined with delicious flavor, surpass all.....

Pkt. ¼oz. 1 oz.

Early Snow Ball. (True.) Extremely early dwarf, producing magnificent white heads. Well adapted to hot-bed culture.....	25	1.00	3.75
Dwarf Erfurt. This is a fine strain, producing large, white, firm heads, close, and of excellent quality. Extra early, and always certain to head; is good for early and late planting.....	20	90	3.00
Large Early Erfurt. This is a vigorous growing variety, with large, white firm heads. One of the best sorts for a second or late crop.....	10	60	2.00
Early Paris. Heads large, white, compact and solid; tender and delicious; leaves large, stalks short.....	10	25	75
Lenormand's Short Stem. Large, late, short-stem, with well-formed white heads, of extra quality.....	05	20	60
Veitch's Autumn Giant. One of the finest late varieties, of robust habit, heads large, compact, and thoroughly protected by the leaves.....	05	20	60



Paris Golden Yellow.

## CELERY.—(Sellerie, Ger.)

One Ounce will produce about 2,500 Plants.

**T**O grow early Celery, sow the seed late in March in a hot-bed or box, and for later crops, in the open ground, as soon as the weather becomes warm, cover lightly, or better still, roll or press it in. Shade the young plants for a week or ten days, and do not let the soil dry out. The tops may be shorn off once or twice before planting, so as to insure "stocky" plants, which will suffer less on being transplanted. When from four to six inches high, transplant into broad, shallow trenches, or on the level ground, setting the dwarf sorts into rows three feet apart, and the tall varieties four feet apart, and six inches apart in the rows. The soil should be light, highly manured, partially shaded and moist, or near water, as the 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.

Many Heart. See Specialties, .....	5c pkt., 30c oz., 85c ¼lb.
Shumacher. See Specialties, .....	5c pkt., 20c oz., 60c ¼lb.
McCullough's Paris Golden Yellow. 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.....	5c pkt., 30c oz., \$1.00 ¼lb., \$3.50 per lb.

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.

# CELERY—Continued.



**Giant Pascal.**

<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	1.50
<b>Giant White Solid.</b> The best of the large growing sorts. It should never be planted closer than four feet between the rows, or it can not be worked properly. This variety is most suitable for Southern sections of the country, as it grows freely in a hot or dry atmosphere.....	05	15	50	1.50
<b>Perfection Heartwell.</b> This is one of the best varieties in cultivation; stalks long and thick, very compact, crisp, and of fine flavor.....	05	20	60	2.00
<b>Evans' Triumph.</b> The best late Celery. A strong and vigorous grower, with very large but crisp, brittle, tender and fine flavored stalks. Will keep longer than any other sort.....	05	20	60	2.00
<b>Dwarf Rose.</b> The red sorts surpass the white in flavor and possess in their coloring a feature which renders them valuable as a table ornament.....	05	20	60	2.00
<b>Soup, or Flavoring Celery.</b> Used for flavoring pickles, sauces, etc.....	05	10		.20

Pkt. Oz. ¼lb. Lb.

<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	25	75	2.75
<b>Golden-Hearted Dwarf.</b> The most popular variety of all. Handsome color, medium size, fine flavor.....	05	15	50	1.50
<b>Golden Rose Self-Blanching.</b> A distinct, early variety. Color, a beautiful rosy tinge, 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. Very early, and positively self-blanching, it bleaches to a beautiful golden yellow at the heart. Excellent quality.....	05	25	75	2.50
<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	1.50
<b>Winter Queen Celery.</b> This variety was first introduced several years ago, and has proved a valuable sort, particularly on account of its excellent winter keeping qualities. It grows a very thick, solid and heavy stalk and has a large heart. It is a close, compact grower, and when blanched is a creamy white color; the flavor is good.....	05	25	75	2.50
<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	2.00
<b>Pink Plume.</b> A perfect White Plume in character, excepting color, which is of a delicate shade of pink, presenting a beautiful appearance with the white and yellow varieties.....	05	25	75	2.50

## CELERICAC, TURNIP ROOTED CELERY.

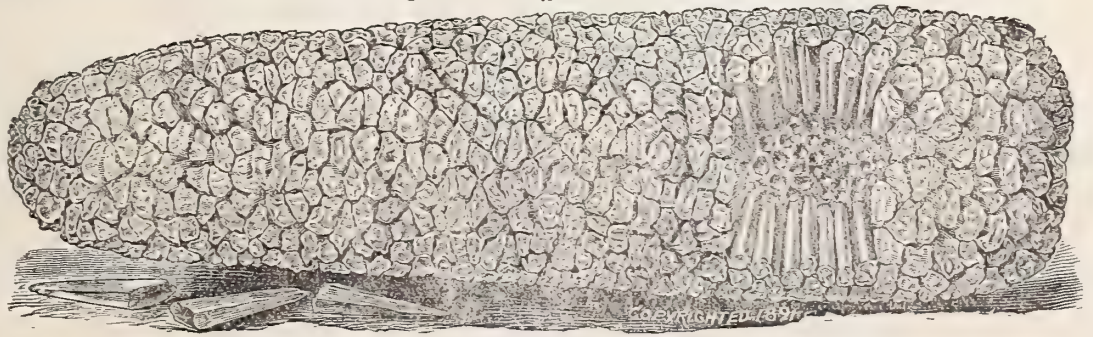
Sow early in spring. Transplant in May into rich, mellow soil in rows eighteen inches apart and six inches in the row. Water in dry weather; little or no earthing up is required. One ounce will sow fifty feet of row.

<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

## 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



"Country Gentleman."—See Page 18.

<b>Adams' Extra Early.</b> The hardiest and earliest variety for table use, but not a Sugar Corn; can be planted earlier than any other.....	05	10	15	.75
<b>Adams' Early.</b> While not a Sugar Corn, is a tender white Corn for the table; can be planted earlier, and will be ready in sixty days.....	05	10	15	.75
<b>Mammoth White Cory.</b> Largest and best extra early Sweet Corn. Ears, twelve-rowed; twice the size of the old Cory, white-cobbed and covered with large white grains of extra quality.....	05	10	20	1.00
<b>Early Sheffield, Sugar.</b> See Novelties and Specialties.	05	10	20	1.00
<b>Early Minnesota.</b> Very early, and desirable alike in the market or family garden. Ears of fair size and good quality.....	05	10	20	1.00
<b>Crosby's Early.</b> A great favorite; productive and of excellent quality.....	05	10	20	1.00

# CORN—Continued.

**Ohio Monarch.** Cross between the well-known "Mammoth" and Stowell's Evergreen; it resembles the former in size, but twelve days earlier; like the Evergreen, has deep grain, remaining a long time in the green state, but far supersedes that standard variety in productiveness; the kernels are tender and sugary.

Pkt. 5c. Pt. 10c.  
Qt. 20c. Pk. \$1.00



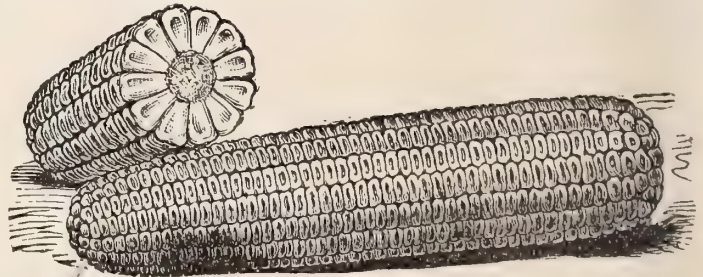
**"OHIO MONARCH"**  
Sugar Corn.

	Pkt.	Pt.	Qt.	Pk.
<b>Moore's Early Concord.</b> Ears large and well-filled; early and unsurpassed for richness and delicacy of flavor.	05	10	20	1.00
<b>Shaker's Early.</b> A larger sized early kind. Remarkable for fine flavor, sweetness and is a desirable gardener's and canning variety.	05	10	20	1.00
<b>Kendel's Early Giant.</b> 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	20	1.00
<b>Country Gentleman.</b> Will delight the most fastidious epicure, retaining its delicate tenderness and flavor even when a little old. The ears are of good size, are produced in 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	20	1.00
<b>Black Mexican.</b> A black-grained variety, sweet and tender; must be picked young to avoid a black appearance when cooked.	05	10	20	1.00
<b>Perry's Hybrid.</b> An early twelve-rowed variety, growing only four or five feet high. Kernels white, large, sweet and very tender.	05	10	20	1.00
<b>Egyptian.</b> A fine large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality.	05	10	20	1.00
<b>New Early Evergreen.</b> A selection from Stowell's Evergreen, possessing all its good qualities, but coming in ten days ahead of that famous variety.	05	10	20	1.00
<b>Stowell's Evergreen.</b> Standard variety, both for home use and market, and is the general favorite. The ears are of a large size, grains deep, exceptionally tender and sugary, and has the advantage of remaining longer in the green state than any other. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the Evergreen character of this best of all late sorts.	05	10	20	1.00
<b>Zig-Zag Evergreen.</b> This is one of the sweetest and best late Sweet Corns. The ears are as large as those of the Evergreen, but the kernels are placed irregularly, or zig-zag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.	05	10	20	1.00
<b>Mammoth Sugar.</b> A late variety producing ears of very large size and fine flavor. It is unusually productive.	05	10	20	1.00

## SEED POP CORN.

Plant two quarts to the acre.

- White Pearl.** Our common market variety...10c pt., 20c qt.
  - White Rice.** A handsome variety, kernels long and pointed, very prolific.....10c pt., 20c qt.
  - Silver Lace or Eight Rowed.** A strong growing variety, color silvery white.....10c pt., 20c qt.
  - Queen's Golden.** The stalks grow six feet high, and the large ears are produced in abundance. It pops perfectly white.....10c pt., 20c qt.
- We always have in stock a large supply of old corn for popping, and are prepared to fill all orders at market prices.



## FIELD CORN.

Prices subject to market changes.  
Seamless bags holding 2 bushels, 15c each extra.

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

- McCullough's Champion White Dent.** The earliest White Dent Corn. Will mature in ninety 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 peck, \$1.25 bu.
- King of the Earliest Dent.** An early yellow corn, adapted for high latitudes, and will mature in eighty to eighty-five days.....40c peck, \$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; color a bright golden yellow; grain is very deep; cob small and therefore dries out very quickly as soon as ripe.....40c peck, \$1.10 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 peck, \$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 peck, \$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 peck, \$1.15 bu.
- Blunt's Prolific.** A prolific white variety producing four medium sized well filled ears to the stalk.....40c peck, \$1.25 bu.
- King Phillip.** (Reddish Flint.) One of the best and most reliable very early sorts.....40c peck, \$1.25 bu.
- Longfellow.** A popular and well-known, yellow, eight-rowed Flint variety. Ears from ten to twelve inches in length. Very early and an abundant yielder.....40c peck, \$1.25 bu.
- Red Cob Ensilage.** A Southern type of large white corn, with deep red cob, strong leafy stalks and short joints. Adapted to all sections of the country, and a general favorite with thousands of dairy farmers.....\$1.00 bu. \$9.00 for 10 bu.
- Sweet Fodder.** There is nothing better for green feed, or curing for winter, than sweet corn. Cattle highly relish it, and when fed on it, keep in fine condition and give an abundance of milk. It has the great merit of being so sweet and palatable that cattle eat every part of the stalks and leaves, and consequently none is wasted. Also excellent for soiling. Sow thickly in drills or broadcast at the rate of two to three bushels per acre.....50c peck, \$1.75 bu., \$3.20 for 2 bu.

# CUCUMBERS. (Gurken, Ger.)

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

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

	Pkt.	Oz.	¼lb.
<b>CUMBERLAND.</b> See Novelties, .....	05	20	65
<b>Improved White Spine.</b> The favorite market variety, largely used for forcing, and extensively grown South for shipping North early in the season. The fruit grows from seven to ten inches long, is quite smooth, of a deep green color, and full at both ends.....	05	20	50
<b>London, or Long Green.</b> A standard late sort, crisp and tender, very prolific, excellent for the table, and makes a hard, brittle pickle	05	20	60
<b>Evergreen.</b> It is very early, and the cucumbers retain their beautiful green color longer than any other sort. One of the best varieties for slicing, as it is crisp and of good quality; and as it produces fruit of medium size, it is good for pickling purposes.....	05	15	50
<b>Nichols' Medium Green.</b> One of the best for pickling, and excellent for forcing or slicing. Always straight and smooth. In length it is between White Spine and Long Green.....	05	20	60
<b>Jersey Pickle.</b> As a pickling variety, is unsurpassed. Its characteristics are its uniform growth and its immense productiveness.....	05	15	50
<b>Early Cluster.</b> A much-esteemed early variety, growing in clusters; is extremely productive.....	05	15	50
<b>Early Boston Market.</b> Largely used about Boston by market gardeners. Very productive.....	05	20	50
<b>Green Prolific.</b> One of the best pickling varieties; dark green, tender, crisp, very productive; good for table use.....	05	20	60
<b>Cool and Crisp.</b> The earliest and most prolific of all pickling cucumbers, and is certain to become a standard sort. While primarily a pickling variety, it is also most useful for slicing, the cucumbers, when fully matured, being of good size, and exceedingly tender and crisp.....	05	20	60
<b>Early Frame.</b> A good variety for pickling and table. Of medium size.....	05	15	50
<b>Japanese Climbing.</b> Is suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table or pickling.....	05	20	70
<b>Gherkin.</b> A very small, prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender.....	05	20	70

## English Forcing Cucumber.

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

	Pkt.
<b>Duke of Edinburgh.</b> Very large and long, dull green, quite smooth.....	25
<b>Telegraph.</b> Free bearing, long and extensively grown....	25

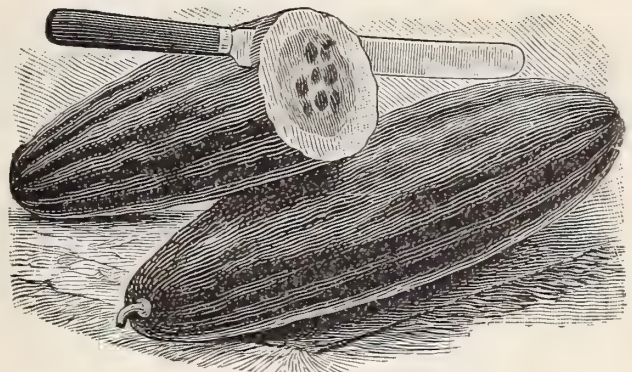
The packets of English Varieties contain ten Seeds each.

## HORSE RADISH.

The best Horse Radish is produced from small pieces of roots four or five inches in length. These small roots will produce good Radish fit for use in one season's growth. Plant the set small end down, where the slanting cut is, so that the top will be two inches under the soil. The soil should be very rich and well cultivated. It is hardy and may be left in the ground until spring before digging. By express (not paid), 15c dozen, 75c per hundred. If by mail, add 10c to per dozen extra.



Evergreen Cucumber.



Cool and Crisp.



Long Green.

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.



Green Curled Endive.

**New York Improved.** This is the leading market variety everywhere. Plant is robust, the leaves and stems being thickly set with spines, which are not found to any extent on the other varieties.

**Long Purple.** Very early. Good for general culture.

# EGG PLANT

(Eierpflanze, Ger.)

One ounce will produce about 1,000 plants.

**A** VERY tender plant, the seed requires the strongest heat. Sow in a hot-bed 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, the amateur often fails to raise them, even with his own hot-bed. To obviate this we will have a supply of strong potted plants from the middle of May to the first of July.



New York Improved.

Pkt. Oz. ¼lb. Lb.

	Pkt.	Oz.	¼lb.	Lb.
New York Improved	05	30	90	3.00
Long Purple	05	20	75	2.25

## 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.

	Pkt.	Oz.	¼lb.	Lb.
Moss Curled	05	15	50	1.70
Green Curled	05	15	50	1.50
Broad Leaved Batavian	05	15	50	1.50

## KOHL-RABI. (Turnip Rooted Cabbage.)

One ounce of Seed for 1,500 plants.

For an early crop, start in a hot bed 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.

	Pkt.	Oz.	¼lb.	Lb.
Early White Vienna	05	20	70	2.25
Early Purple Vienna	05	20	70	2.25

## Kale or Borecole.

(Blaetter-Kohl, Ger.)

One Ounce to 100 Yards of Drill.

**T**HE 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 Kale.

	Pkt.	Oz.	¼lb.	Lb.
Norwood Dwarf Curled	05	10	25	75
Dwarf Curled German, or Siberian	05	10	20	40
Dwarf Purple Scotch	05	10	25	65
Tall Scotch	05	10	25	65



Dwarf Curled German Kale.

## LEEK. (Lauch, Ger.)

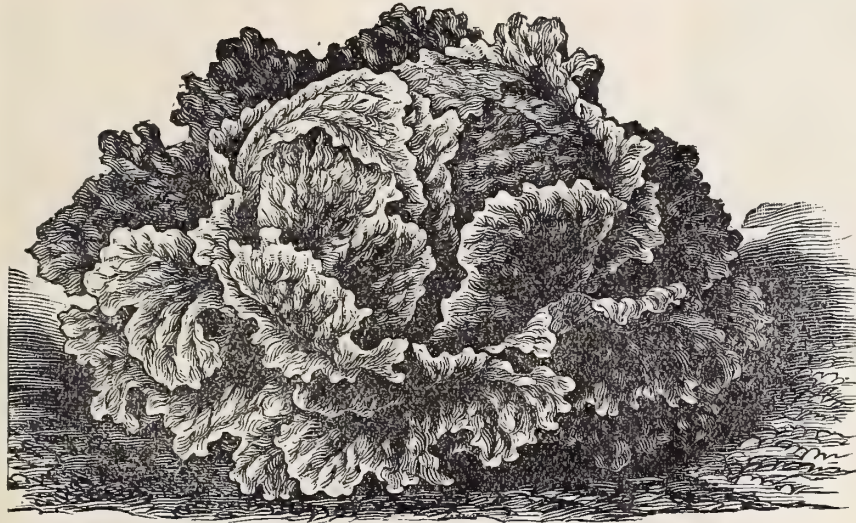
**S**OW early in April, in drills one foot apart, and one inch deep. When the plants are six to eight inches high, transplant in a deep rich soil in rows twelve inches apart and six inches in the rows, as deep as possible, so that the neck may be covered and blanched. Draw the earth to them as they grow.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

	Pkt.	Oz.	¼lb.	Lb.
Large American Flag	05	20	50	1.40
London Flag	05	15	40	1.15
Large Musselburgh	05	20	60	1.40



# LETTUCE—(Lattich oder Garten Salat, Ger.)

One Ounce will Sow 150 Feet of Drill.



McCullough's Nonpareil.

**L**ETTUCE thrives best in rich, moist ground. For the principal early crop, sow the seed in September in the open ground; transplant, when large enough, into cold frames, and protect the plants during the winter in the same manner as early Cabbage; set the plants out early in April, or sow the seed in hot-beds in February or March, and transplant into a sheltering border with a southern exposure. 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 plants will not be strong. When wanted as a cut salad, sow the seed thickly in rows or broadcast.

## HEAD VARIETIES.

	Pkt.	Oz.	¼lb.	lb.
✓ <b>McCullough's Selected Nonpareil.</b> The finest market variety to be found. 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 longer time than any other variety we know.....	05	15	40	1.00
✓ <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	20	50	1.25
✓ <b>Boston Market.</b> This is 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 very best varieties for forcing.....	05	15	40	1.00
✓ <b>Brown Dutch.</b> A dark, brown-spotted variety, remarkable for its hardiness. The inner leaves are beautifully blanched, and very sweet and tender.....	05	15	40	1.00
✓ <b>Yellow Seeded Butter.</b> See specialties Be sure and try it.....	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> This Lettuce is 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, very crisp and tender.....	05	15	40	1.00
✓ <b>Hanson.</b> Heads green, with white heart. Large size, crisp and tender.....	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 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

## CURLED VARIETIES.

✓ <b>Norwood.</b> One of the best loose leaved early market varieties, consequently very profitable for market gardeners. It makes a good show; light, creamy white leaf. Very tender when grown early.....	05	15	40	1.00
✓ <b>Black Seeded Simpson.</b> One of the most popular sort. It forms large, loose leaves of ideal color; the leaves are large, thin, very tender, and of very good quality. It is one of the best sorts for use under glass as well as for early outdoor planting. Our seed of this has been most carefully selected, and we sell large quantities to market gardeners.....	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> As a Lettuce for greenhouse forcing, this variety undoubtedly stands at the head of the list, 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 and rather thin, which will stand shipping long distances better than most sorts.....	05	15	40	1.00
✓ <b>Early Curled Silesian.</b> Early, loose heads, curled, tender and fine flavor.....	05	15	40	1.00
✓ <b>Oak Leaved.</b> Very distinct, excellent for summer use and for growing in the South, as it resists the greatest heat.....	05	15	40	1.00
✓ <b>Prize Head.</b> This popular variety produces large, loose heads, finely crimped and fringed leaves, outer portions shaded brown; crisp, sweet and tender.....	05	15	40	1.00
✓ <b>Paris White Cos.</b> Tender and crisp. One of the best varieties for blanching.....	05	15	40	1.00
✓ <b>Trianon Cos.</b> A self-blanching Cos Lettuce, very crisp and tender, and of excellent flavor. The leaves when bleached are stiff like celery stalks, and can be eaten in the same manner.....	05	20	40	1.25

# MELON—Musk.

(Zucker Melone, Ger.)

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



Kinsman Queen.

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

	Pkt.	Oz.	¼lb.	Lb.		Pkt.	Oz.	¼lb.	Lb.
<b>Kinsman Queen.</b> Ten days earlier than any Musk Melon. Large size; nearly round in shape. Color, yellow-green outside, slightly ribbed and netted; flesh, deep salmon, rich, juicy and delicious. Should be allowed to ripen on the vine, and none grown will give better satisfaction on the table. Productive; not a good shipper: will command a high price in the home market.....	05	10	30	1.00	<b>Emerald Gem.</b> Extra early small, skin dark green; flesh, orange, very sweet.....	05	15	40	1.50
<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	30	1.00	<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	30	1.00
<b>Banquet.</b> Round, densely netted; flesh, salmon in color and very sweet.....	05	10	25	80	<b>Hackensack.</b> One of the best, of large size and attractive appearance; productive, and excellent flavor.....	05	10	30	1.00
<b>Columbus.</b> Combines a high degree of sweetness, fine keeping and cropping qualities. Its beautiful, buff skin is covered with a very thin whitish netting; flesh, green, very solid and thick.....	05	10	25	80	<b>Improved Cantaloupe.</b> An early, large, round market sort, sweet, and good flavor.....	05	10	25	80
<b>Casaba.</b> Oval shape, sweet and delicious.....	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>Early Netted Gem.</b> Very early, small, coarsely netted green flesh, fine flavored.....	05	10	30	1.00	<b>Jenny Lind.</b> The earliest variety; netted, of small, round size, excellent flavor.....	05	10	30	1.00
					<b>Melrose.</b> One of the best melons for home and market. Flesh, thick, solid, and light green color.....	05	10	25	80
					<b>Osage or Improved Miller's Cream.</b> Medium, dark green. Flesh, salmon; very thick and splendid flavor.....	05	10	35	1.25
					<b>Paul Rose.</b> See Specialties.....	05	10	35	1.25
					<b>Princess.</b> Quite large, dark green skin, heavily netted, small seed cavity; flesh, thick; rich orange color, very sweet and a delicious flavor.....	05	10	25	80
					<b>Rocky Ford.</b> A variety extensively grown in Colorado and shipped to various Eastern points. The reason for the wide-spread 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 very solid. The flesh is green, thick and juicy. It is very early and wonderfully productive.....	05	10	35	1.25



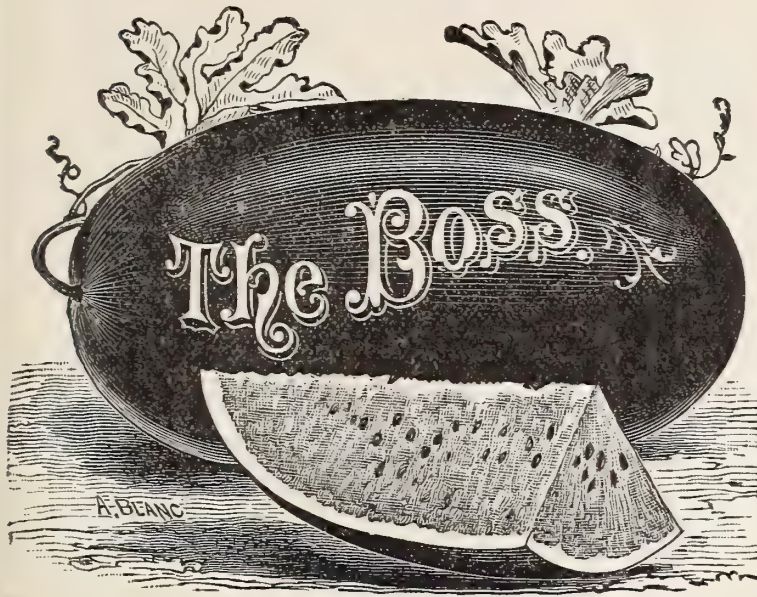
Extra Early Hackensack.

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—water. (Wasser Melone, Ger.)

One Ounce for 30 Hills, 4 to 5 Pounds in Hills for an Acre.

In 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.	1/4lb.	Lb.
Black Spanish. Fruit medium size, almost round; skin, dark green; flesh, red, sweet and delicious.....	05	10	20	60
Boss. Color dark green, flesh unusually deep scarlet; rind very hard, but thin; quality of the best.....	05	10	20	60
Cuban Queen. One of the largest varieties ripening to the very center, heavy cropper, flesh bright red, tender and melting, luscious, crisp, and very sugary.....	05	10	20	60
Dark Icing, or Ice Rind. A very solid sort, with a thin rind, and possesses most delicious flavor.....	05	10	20	60
Dixie. 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. It has a remarkably hard but very thin rind. Good keeper.....	05	10	20	60
Duke Jones. This is a splendid melon. The color of the skin is solid green, and the flesh is very bright red, particularly sweet, juicy and melting. It grows to a large size. One of the best shipping sorts.....	05	10	20	60
Florida Favorite. Oblong in shape, growing to large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.....	05	10	20	60
Hoosier King. See specialties.....	05	10	20	60
Improved Ironclad. Of large size and great weight, flesh deep red and of delicious flavor.....	05	10	20	60
Jordan's Gray Monarch. 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	20	60
Kentucky Wonder. A distinct variety; shape oblong, attaining a good size, skin dark green and beautifully marked. Flesh a beautiful rich scarlet color, crisp, rich, sugary, always firm and solid, never mealy or tough.....	05	10	25	75
Kleckley's Sweet. See specialties.....	05	10	30	1.00
Kolb's Gem. 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
Long White Icing. 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	20	60
Mountain Sweet. Early, large, oblong, dark green, thin rind, flesh red, solid, rich and sweet.....	05	10	20	60
Peerless, or Ice Cream. Of medium size, skin light mottled green; flesh bright scarlet, solid, crisp, melting, and exceedingly sweet.....	05	10	20	60
Phinney's Early. Flesh deep red, of very superior quality; early and productive; a valuable market variety.....	05	10	20	60
Pride of Georgia. It is dark green in color, almost oval in shape. An excellent shipping variety, of large size. Flesh crisp and sweet.....	05	10	20	60
Rattlesnake or Gypsy. Fruit large, oblong, striped; flesh red. An excellent variety for market.....	05	10	20	60
Sweet Heart. Fruit large, oval, very heavy, uniformly mottled light and dark green, rind thin but firm, flesh bright red, firm, solid but very tender, melting and sweet.....	05	10	20	60
Triumph. See specialties.....	05	10	25	75
Wonderful. Without a single exception, this is the sweetest Water Melon of all. The melons attain a great weight, are of very handsome appearance, never crack or lose their fine flavor in the wettest season. It is a very productive and hardy variety and one that will take the lead wherever known.....	05	10	25	75
Colorado Preserving Citron. 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	20	60

## 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 hot-bed, and afterwards transplant.

Martynia Proboscidea.....	Pkt.	Oz.	1/4lb.	Lb.
	05	10	25	

## 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.	1/4lb.	Lb.
White English. Best for salads.....	05	10	15	30
Chinese. Large leaved, leaves twice the size of the white; flavor sweet and pungent.....	05	10	25	70

## NASTURTIUMS.

Four Ounces of Seed to One Hundred Yards of Row.

Cultivated both for use and ornament. The seed pods, which resemble capers, are gathered while green and tender for pickling, and the leaves are used for mixing with salads. Sow early in the spring, in drills about one inch deep, in light rich soil; when all danger of frost is over, train the Tall on brush, trellises or fences, and grow the dwarf in beds.	Pkt.	Oz.	1/4lb.	Lb.
Tall Mixed.....	05	10	25	80
Dwarf Mixed.....	05	10	30	1.00

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

**Our Celebrated English Milltrack Mushroom Spawn** (made by the best maker in England especially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied on to produce a good crop of the best mushrooms.

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

**French Mushroom Spawn** ..... 35c per lb.

Add 10c per Pound for Postage.

**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.

**White Velvet.** The pods are round and smooth, and are much larger than those of any other Okra, are never prickly to the touch, and are produced in the greatest abundance. 5c pkt., 10c oz., 25c ¼ lb., 6c lb.

**Improved Dwarf Green.** This variety has long, slender pods, very early, productive, and only grows fourteen inches high. 5c pkt., 10c oz., 25c ¼ lb., 60c lb.

**ONIONS.** (Zwiebel, Ger.)

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

**F**OR sets, sow the seed as early as possible in the spring, very thickly, in drills. As soon as the tops die off in summer, remove them to a dry, airy place; and early in the following spring re-plant by

placing the sets in shallow drills twelve inches apart, and about four inches apart in the drills; the onions, by this process, are obtained of a large size early in the season. They may also be grown to full size during the first season by sowing thinly in drills one foot apart, and about ¼ inch deep, in March or early in April, in strong land, well manured, and thinning them out to stand three or four inches apart in the drills. They delight in a strong, rich, deep, loamy soil, and succeed well if grown successive years on the same ground.

By sowing Onion Seed in frames in February or March, and transplanting in April, onions of immense size can be obtained. For this purpose the varieties Southport Globe (white, yellow or red) and Prizetaker are usually preferred.

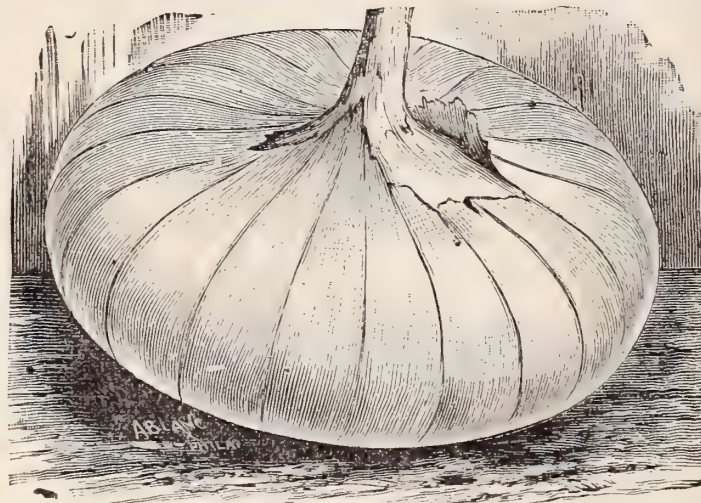
**Mammoth Silver King.** Single onions of this variety, grown from seed the first season, have weighed as much as three pounds. It matures early, is a white-skinned and white-fleshed variety, flat shape, and of a mild and delicate flavor. .... 05 20 65 2.00

**Australian Brown.** See Specialties ..... 05 15 40 1.00

**Yellow Globe Danvers.** This is the standard variety everywhere, its earliness, uniform shape, small neck, bright yellow color and fine quality commend it to all. It is an excellent keeper and one of the most desirable sorts ..... 05 15 40 1.20

**Yellow Danvers.** Bulb of good size and flat, the standard yellow onion for market or home use, being both early and an enormous yielder as well as good keeper, 05 10 35 1.00

**Yellow Dutch, or Strasburg.** The leading market variety, a good keeper and well flavored; bright straw-colored skin and somewhat flattened shape; extensively grown for sets ..... 05 10 35 1.00



Mammoth Silver King.



Yellow Danvers.

**Southport Yellow Globe.** A very large, handsome, globular-shaped, yellow variety, very productive, of a mild flavor, excellent keeper. .... 05 15 50 1.50

**Early Red Globe.** A very handsome variety, and deserving of general cultivation. It matures very early, grows to a good medium size, and keeps well; skin deep red; flesh fine grained; flavor mild. .... 05 15 40 1.25

**Large Red Globe.** An exceedingly handsome and desirable variety, and is deserving of general cultivation. It matures quite early, grows to a large size; skin deep red; flesh fine-grained, mild and tender, 05 20 60 1.75

# ONIONS—Continued.

	Pkt.	Oz.	¼lb.	Lb.
<b>White Portugal, or Silverskin.</b> A large, flat onion of mild flavor; fine for early winter use, and much esteemed for pickling.....	05	20	50	1.75
<b>Large White Globe.</b> 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	2.40
<b>White Barletta.</b> A very early, small, pure white variety, having a very delicate silver skin, flesh firm and mild in flavor. Its great merit over all others is its extreme earliness. For pickling purposes it is unequalled.....	05	20	65	2.25
<b>The Queen.</b> A handsome silver-skinned variety; esteemed for its rapid growth, mild flavor and fine keeping qualities.....	05	20	65	2.25
<b>Prize Taker.</b> A large beautiful Onion that is seen every fall offered for sale at the fruit stores in Cincinnati and other large cities. They are a rich straw color of enormous size, averaging 12 to 14 inches in circumference. It is very hard and an excellent keeper.....	05	20	50	1.50
<b>Mammoth Pompeii or Giant Red Garganus.</b> This fine Italian variety has produced Onions weighing 4 to 5 lbs. each. The skin is a delicate red, flesh close grained, nearly white, and of a very mild flavor.....	05	20	60	1.75
<b>Large Red Wethersfield.</b> The most popular red variety for main crop. It makes a large, thick bulb, crops abundantly, ripens early and sells readily on all markets where a red onion is wanted. Our seed is extra selected.....	05	15	40	1.25

## ONION SETS.

These are valuable for early use, and where onions from seed cannot be raised the first year.



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

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

Our Onion Sets have been kept in good condition, and are re-cleaned.

**White Sets. Yellow Sets. Potato Sets. Top or Button Sets. White Multiplier Sets.** 30 cents per quart by mail postpaid. Price per peck and bushel on application.

## PARSLEY—(Petersilie, Ger.)

One Ounce to 150 Feet of Drill.

**U**SED for garnishing and seasoning soups, meats, etc. Succeeds best in a mellow, rich soil, 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.

**Moss Curled.** Fine for garnishing.....5c pkt., 10c oz., 20c ¼lb., 50c lb. not prepaid.  
**Extra Double Curled.** Select stock, beautifully crimped and curled.....5c pkt., 10c oz., 25c ¼lb., 50c lb. not prepaid.



## PARSNIP—(Pastinake, Ger.)

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

**S**OW 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 till 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 run of uniform size and are smooth. The growing taste for this delicious vegetable will make this improved strain particularly desirable.

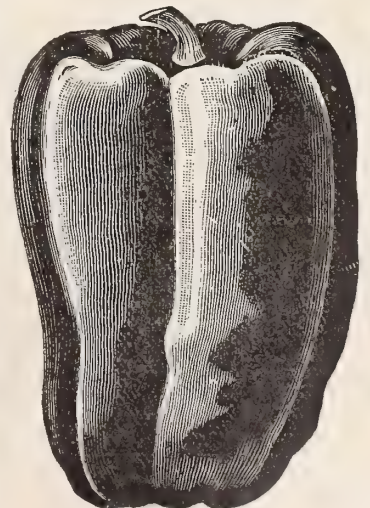
**Student.** A good half-long variety, smooth, sweet and of delicate flavor.....5c pkt., 10c oz., 20c ¼lb., 45c lb. not prepaid.

## PEPPER—(Pfeffer, Ger.)

One Ounce of Seed for 1,500 Plants.

**S**OW early in the spring in hot-beds, 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.

	Pkt.	Oz.	¼lb.	Lb.
<b>New Celestial.</b> It is not only a most useful Pepper, but one of the most beautiful plants in existence. The plant begins to set in peppers early in the season, bearing profusely. The peppers are two or three inches long, of clear, sharp flavor. Color, creamy yellow, and, when fully grown, changes to an intense vivid scarlet.....	05	25	75	2.40
<b>Golden Dawn.</b> Of same shape and size of Large Bell, but of more delicate flavor; color, yellow.....	05	25	75	2.40
<b>Large Bell, or Bull Nose.</b> Large and early, rind very thick, color, gloss-red, flavor, mild and pleasant.....	05	25	75	2.40
<b>Long Red Cayenne.</b> From 3 to 4 inches long, of bright-red color, very productive and hot.....	05	25	75	2.40
<b>Ruby King.</b> Has attracted much attention. Of larger size than the Spanish Monstrous, and different shape. Fruit 5 to 6 in. long, and about 3½ in. through; bright red color. Remarkably mild, pleasant flavor; no fiery taste. Both productive and profitable.....	05	25	75	2.40
<b>Spanish Monstrous.</b> Large single peppers, often growing six to eight inches long and two to three inches thick; early, and most productive; flesh very sweet and mild.....	05	25	75	2.40
<b>Sweet Mountain.</b> For Mangoes. Similar in shape to the Bell, but grows larger, rind thick, tender and fleshy. Used for pickling.....	05	25	75	2.40
<b>PEANUTS.</b> For seed.....		15	20	



Ruby King.

*Admiral Henry Pea*

# PEAS. (Erbsen, Ger.)

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

**P**EAS 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. Sow all the varieties quite early, and depend for succession upon the different times of ripening of the various sorts, or 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 sort 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. For several years past, we ourselves, and also many of the largest and most experienced truckers, have made comparative trials with other leading brands of extra early Peas, and in every case McCULLOUGH'S MAUD S. was the first ready to pick by from three to five days. 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. It does not require stakes or brush of any kind for support. It is an even cropper, and can be gathered clean in two pickings. 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 UNEQUALLED IN EARLINESS, YIELD AND REGULARITY OF GROWTH, and in every sense a perfect trucker's pea. Make first planting as early in the spring as the ground will permit, and cover

	Pkt.	Pt.	Qt.	Peck.
well.....	05	15	25	\$1.50

\***Eclipse.** Vine two feet, vigorous; green wrinkled, of most delicious flavor. Owing to earliness, productiveness, quality, height of vine, this is destined to be the coming pea of America as well as most desirable for the market gardener.....

	05	20	35	2.00
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\***Gradus.** Will yield an abundant supply of the most delicious, large, wrinkled peas much EARLIER than any other wrinkled variety, and only three or four days after the best stocks of the small round extra earlies. It is the earliest large-podded pea in cultivation, while the peas are of most superior quality, both in size and delicious flavor. The vine has heavy

	10	30	50	----
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\***American Wonder.** 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	20	35	2.00
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\***McLean's Little Gem.** A green wrinkled variety. It grows from twelve to eighteen inches high, is very prolific and of excellent flavor.....

	05	20	35	2.00
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\***Extra Early Premium Gem.** A very fine dwarf Pea of the Little Gem type, on which it is a great improvement.....

	05	20	35	2.00
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\***Nott's Excelsior.** A new dwarf wrinkled Pea of the highest excellence. More vigorous and a trifle taller than the American Wonder, and producing a greater quantity of peas than either the Wonder or Premium Gem, and fully as fine quality.....

	05	20	35	2.00
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\***Alaska.** The dark green color of the pods makes it extremely desirable, as it can be carried long distances without losing color. Height two feet.....

	05	15	25	1.50
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\***Early Daniel O'Rourke.** Was at one time considered the earliest market variety. Height 2½ feet.....

	05	15	25	1.50
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\***Philadelphia Extra Early.** An excellent early variety. Height 2¼ feet.....

	05	15	25	1.50
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\***Laxton's Alpha.** The earliest of all the medium height wrinkled Peas, of fine quality and very prolific.....

	05	20	35	2.00
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McCullough's "Maud S."

stems, with large dark-green leaves, and grows 2½ feet in height. It produces uniformly large pods, measuring four to four and one-half inches long, nearly round, and well filled with large, handsome peas.....

\***Bliss Abundance.** Pods 3 to 3½ inches long, roundish and well filled, containing six to eight large wrinkled peas of excellent quality. Many plants throw out six branches, each of which becomes covered with blossoms and pods; 18 inches high.....

\***Heroine.** Medium early; seed, green wrinkled; height, 2 feet; producing a remarkably handsome curved pod, well filled with large peas of good flavor. Much more uniform in its growth than most dwarf peas.....

\***Dwarf Telephone.** A valuable second early pea of dwarf stocky growth, healthy and vigorous; height, 18 inches; very productive, plants frequently bearing 5 to 7 well-filled pods. Peas of largest size, of delicious flavor.....

## Second Early Varieties.

\***McLean's Advancer.** A second early variety, and now a great favorite with growers in this neighborhood.....

	05	15	25	1.50
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\***Bliss Abundance.** Pods 3 to 3½ inches long, roundish and well filled, containing six to eight large wrinkled peas of excellent quality. Many plants throw out six branches, each of which becomes covered with blossoms and pods; 18 inches high.....

	05	15	25	1.50
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\***Heroine.** Medium early; seed, green wrinkled; height, 2 feet; producing a remarkably handsome curved pod, well filled with large peas of good flavor. Much more uniform in its growth than most dwarf peas.....

	05	15	30	1.75
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\***Dwarf Telephone.** A valuable second early pea of dwarf stocky growth, healthy and vigorous; height, 18 inches; very productive, plants frequently bearing 5 to 7 well-filled pods. Peas of largest size, of delicious flavor.....

	05	20	30	2.25
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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 Extra Early Telephone Pea*

# PEAS—Continued.

THOSE MARKED THUS \* ARE WRINKLED VARIETIES.

## LATE OR MAIN CROP VARIETIES.

	Pkt.	Pt.	Qt.	Pk.
✓ <b>Admiral Dewey.</b> See specialties, .....	10	20	35	2.50
✓ <b>American Champion.</b> It is one of the largest of all peas, enormously productive, and its flavor and quality closely approach that of the well-known Champion of England.....	05	15	25	1.75
✓ <b>Everbearing.</b> A first-class pea for summer and autumn use, pods three to four inches long, and contains six to eight peas of rich flavor, very sweet and tender. Owing to its remarkable branching habit it remains in bearing an unusually long time; 2 feet.....	05	15	25	1.50
✓ <b>Improved Champion of England.</b> This is yet, by general consent, acknowledged to be the best of the late varieties. It is a tall-growing sort, attaining a height of five feet, and requires to be staked up. The pods and peas are of the largest size.....	05	10	20	1.25
✓ <b>Pride of the Market.</b> A medium early dwarf pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to nine peas of fine quality. This variety will doubtless come rapidly into favor; 1½ feet.....	05	15	25	1.75
✓ <b>McCullough's New Improved Telephone.</b> See specialties, .....	05	20	35	2.00
✓ <b>Telephone.</b> Immensely productive, of the finest quality, and excellent sugar flavor; vines very strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with large, delicious peas; 4 feet.....	05	15	25	1.75
✓ <b>Long Island Mammoth.</b> See specialties, .....	05	20	35	2.00
✓ <b>Telegraph.</b> It is a fine second early variety, very robust in habit, bearing immense pods. Peas often being so close together as to appear to be forming a double row in the pods. The peas, when cooked, are of a fine, deep green color. A great bearer and of fine flavor. Height, 5 feet.....	05	15	25	1.75
✓ <b>Stratagem.</b> By many this variety is considered the best of the English Peas. It is a dwarf, wrinkled, blue marrow, very heavy cropper, and produces large, remarkably well-filled pods of excellent flavor. Height, 2 feet.....	05	15	25	1.75
✓ <b>Yorkshire Hero.</b> A wrinkled variety. Hardy, productive, and unsurpassed for sweetness and delicious flavor. Grows three to four feet.....	05	15	25	1.50
✓ <b>Large White Marrowfat.</b> A favorite variety; large well-filled pods; 5 feet.....	05	10	15	85
✓ <b>Black-Eyed Marrowfat.</b> This and the White Marrowfat are extensively grown as field peas, as they are hardy, productive, and bear well-filled pods; 4 feet.....	05	10	15	85
✓ <b>Dwarf Sugar.</b> Edible pods. Can be used in a green state like String Beans. Height, 5 feet.....	05	25	40	....
✓ <b>Melting Sugar.</b> This new variety grows to the height of five feet, bears a profusion of very large, broad, handsome, light green (nearly white) 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, and none is more neglected, which can only be attributed to a lack of knowledge as to its merits. 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 in mixture can not be fed with positive advantage.....

...	10	15	50
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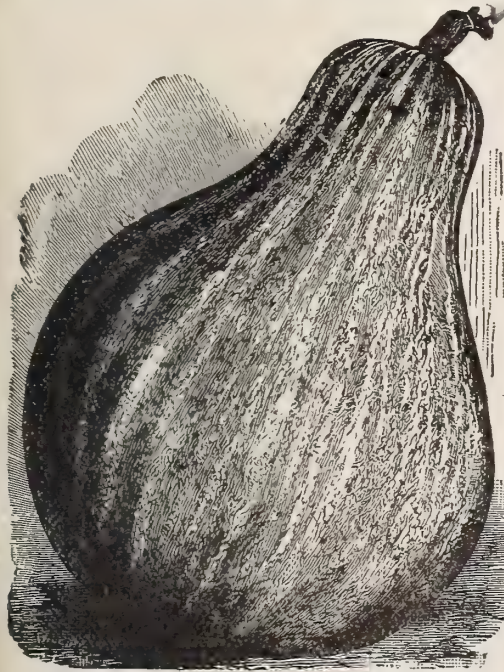
Write for Special Prices on Large Quantities.

## PUMPKIN. (Kuerbis, Ger.)

One Ounce for Fifteen Hills.

THEY are generally planted in cornfields, but they can not grow as large or fair 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.

	Pkt.	Oz.	¼lb.	Lb.
✓ <b>Cashaw Crook-Neck.</b> Grows to a medium size; flesh light yellow, and is the best variety for table use.....	05	10	25	75
✓ <b>Calhoun.</b> The outside is a creamy brown; the inside flesh is a deep salmon yellow; the flesh is wonderfully 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.....	05	10	30	1.00



Tennessee Sweet Potato Pumpkin.

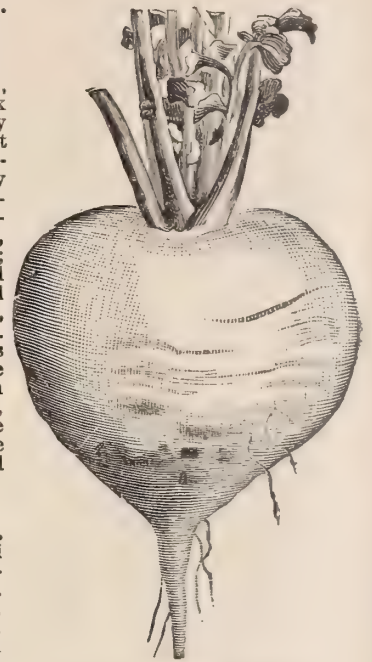
✓ <b>Tennessee Sweet Potato.</b> Medium size, pear shaped, a little ribbed, color creamy white, sometimes lightly striped with green. Flesh, thick, creamy white, fine grain, dry and brittle, and of excellent flavor. Has no equal for making pies.....	05	10	25	75
✓ <b>Japanese Pie Pumpkin.</b> Is very productive, ripens early, of medium size, good keepers, and weigh 15 to 20 pounds each. The flesh is a rich salmon color, unusually fine-grained, and when cooked or stewed, is almost as dry and mealy as a sweet potato. For making pies, custard, etc., they are hard to beat. Containing but little water, they are easily cut and dried, like apples, and make excellent pies or sauce for winter use.....	05	10	30	1.00
✓ <b>Mammoth Tours.</b> A very productive French variety, which grows to an immense size, specimens often weighing 200 pounds and over. Useful for stock feeding.....	05	15	50	1.75
✓ <b>Large Cheese.</b> An excellent keeper, color bright orange, and can be used either for stewing or feeding stock.....	05	10	20	50
✓ <b>Kentucky Field.</b> Good for cooking purposes, and for feeding stock.....	05	15	30	
✓ <b>Connecticut Field.</b> A large, yellow variety.....	05	15	30	

# RADISH—(Rettig, Ger.)

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

Radishes thrive best in a light, rich, mellow soil, they must make a quick and tender growth; heavy or clay soils not only delay their growth, but produce a much inferior crop in appearance and flavor. 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 a succession. The winter varieties should be sown in July and August; like the Turnip, they make the best growth in the autumn, and must be taken up before severe frost, and stored away in a cool cellar in sand.

**McCullough's Cincinnati Market.** Much grown by the Cincinnati market gardeners, and the handsomest long radish in cultivation. It is a glossy scarlet, very small top, grows seven inches in length. Skin, very thin; flesh, crisp and brittle and of a delightful pungent quality. Undoubtedly the finest long red Radish for forcing, and will outsell any on the market, also an extra fine sort for



White Stuttgart Radish.

	Pkt.	Oz.	1/2 lb.	Lb.
the home garden, the quality being unexcelled.....	05	10	25	75
<b>Cardinal Globe.</b> See Specialties.....	05	10	25	75
<b>Non Plus Ultra.</b> The smallest topped and earliest forcing radish in cultivation. Roots small, round deep rich scarlet, very crisp, tender white flesh.....	05	10	20	60
<b>Rosy Gem.</b> One of the earliest; perfectly globular; color, rich deep scarlet at the top, blending into pure white at the bottom.....	05	10	20	60
<b>White Box.</b> Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing it is in every way superior.....	05	10	20	60
<b>Early Scarlet Globe.</b> One of the earliest and best sorts for forcing; its color is very handsome; flavor, mild; crisp and juicy; stands a great amount of heat without becoming pithy; good for garden culture.....	05	10	20	60
<b>Early Scarlet Turnip.</b> A small top variety, of quick growth, mild and crisp. It is a standard sort for early planting in the open ground.....	05	10	20	50
<b>White Tipped Scarlet Turnip.</b> No radish looks better on the table than this. It is bright scarlet in color, gradually fading off to pure white at the base, and is tender, mild in flavor, and 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>Long Scarlet, Short Top.</b> Long, of a deep scarlet color; flesh, white, crisp and good flavor.....	05	10	20	50
<b>Golden Dresden.</b> We can recommend it alike for family gardens and for market as one of the most valuable and quickest-growing radishes. The tops are very scant, and admit of closest planting. The Radishes are perfectly round, smooth, and with attractive, 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> This is a fine new German radish, equally well adapted as an early forcing or summer radish. It is of very rapid growth and fine quality; flesh white, tender, crisp and brittle. The outside skin is a bright, fresh yellow, and has a very small top.....	05	10	25	75
<b>Olive-Shaped Scarlet.</b> A very handsome, quick-growing variety, of excellent quality.....	05	10	20	50
<b>White Olive-Shaped.</b> A handsome variety, regular olive-shaped, and a fresh, pure white; crisp and tender....	05	10	20	50
<b>Wood's Early Frame.</b> Long Scarlet radish. An excellent variety for forcing.....	05	10	20	50
<b>McCullough's Norwood Long White.</b> Finest Long White Radish in cultivation. 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 very 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 or crimson above, and gradually blending into a pure, waxy white to its root. Quality is unsurpassed, being tender, and remaining so longer than most other summer sorts.....	05	10	20	50
<b>Yellow Summer Turnip.</b> Will stand heat, and can be sown very late. Flesh, crisp and tender.....	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>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. Market gardeners will find this a splendid seller.....	05	10	25	70
<b>Chinese Scarlet Winter.</b> Half-long, fine winter sort. Keeps well.....	05	10	20	50
<b>Black Spanish, Oval Shape.</b> A valuable winter sort.....	05	10	20	50
<b>Black Spanish, Long.</b> Differs from the above only in shape.....	05	10	20	50
<b>Mammoth White Winter.</b> A giant white-fleshed fall radish of excellent quality.....	05	10	20	50



# SPINACH.

(Spinat, Ger.)

One ounce for 100 feet of drill. 10 to 12 pounds for an Acre.

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 tramped in, for if the soil is loose, the hot air shrivels the seed, so that it will not germinate.

**Norwood Savoy.** One of the best for either the market or kitchen garden. A quick-growing, round-seeded variety, producing a remarkably thick, dark green, slightly crumpled leaf, suitable for either spring or fall sowing.  
Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 35c.

**Bloomsdale Savoy.** The hardiest large Savoy leaved; curled and crimped with thick, fleshy leaves, good for family and market purposes.  
5c pkt., 10c oz., 20c 1/4 lb., 40c lb.

**Round Leaf.** The leaves are thick and fleshy; variety generally used.

**Long Standing.** A large crimped, thick, fleshy Savoy-leaved variety; will stand two weeks longer than any other sort before shooting to seed; the best for spring sowing on account of seeding so late.

**Victoria.** A new variety, with heavy, broad, dark-green leaves. Two or three weeks later than other sorts in going to seed. Valuable for spring sowing.

**Ever Ready.** The name indicates the variety. Slow to shoot. Heavy dark-green leaves; very much bloated. Tender and delicious, good for all seasons.

**Prickly Seeded, or Fall.** The hardiest variety, having smaller leaves; is not so productive as the above sorts.



Bloomsdale Savoy Spinach.

Special Prices given on Spinach in Quantity.

	Pkt.	Oz.	1/4 lb.	Lb.
Round Leaf	05	10	15	35
Long Standing	05	10	20	40
Victoria	05	10	20	40
Ever Ready	05	10	20	40
Prickly Seeded, or Fall	05	10	15	40

# RHUBARB. (Rhabarber, Ger.)

One Ounce will Produce 1,000 Plants.

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.

**Victoria.** Very large, later than Linnaeus.

# SALSIFY. (Hafer-Wurzel, Ger.)

One Ounce will Sow 50 Feet of Drill.

SALSIFY is rapidly coming into favor, and is considered a most delicious vegetable. It is used stewed, boiled, or fried, and sometimes as a salad, sliced raw in vinegar, with salt and pepper. When cooked, it has an oyster flavor. It is 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.

**Mammoth Sandwich Island.** This variety will average nearly double the size of the White French, and is of excellent quality. This is the best variety for market gardeners' use.

	Pkt.	Oz.	1/4 lb.	Lb.
Long White French	05	10	25	90
Mammoth Sandwich Island	05	15	40	1.25

# SQUASH. (Kurbiss, Ger.)

One Ounce of the Bush Varieties for Forty Hills, or of the Large-Seeded Kinds, Fifteen Hills. Two or Three Pounds of the Bush, and Three to Four Pounds of the Large-Seeded for an Acre.

IT IS useless to sow until the weather has become settled and war n. 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 cucumber.

## Summer Varieties.

	Pkt.	Oz.	1/4 lb.	Lb.
<b>Mammoth White Bush.</b> The best early variety for market or shipping. It grows to a large size, scalloped like a patty-pan, and bearing an abundant crop.	05	10	25	75
<b>Early Yellow Bush.</b> An early, flat scallop shaped variety; color yellow; flesh pale yellow and well flavored; very productive; used when young and tender.	05	10	25	75
<b>Summer Crook-Neck.</b> 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.	05	10	25	75
<b>Straight-Neck Summer Squash.</b> Market gardeners who ship early squash to distant markets, know the difficulty of packing the crook-neck variety in boxes to good advantage. They do not fit into the space well, the crooked neck always seeming to go just where it is not wanted. In the "Straight Neck," the bad feature of the crook has been overcome, and by continued selection the size has been increased, more uniformity in shape secured, and quality improved.	05	10	25	75
<b>Perfect Gem.</b> Equally desirable either as a summer or winter Squash. The squashes are from four to six inches in diameter, of a creamy white, with thin smooth white shell, slightly ribbed.	05	10	35	1.25
<b>Vegetable Marrow.</b> A favorite English sort. The fruit is from nine to eighteen inches in length and four to six inches in diameter. Skin a greenish yellow, flesh white, soft and of rich flavor. Plant 8 feet apart.	05	10	25	75



Mammoth White Bush Squash.

packing the crook-neck variety in boxes to good advantage. They do not fit into the space well, the crooked neck always seeming to go just where it is not wanted. In the "Straight Neck," the bad feature of the crook has been overcome, and by continued selection the size has been increased, more uniformity in shape secured, and quality improved.

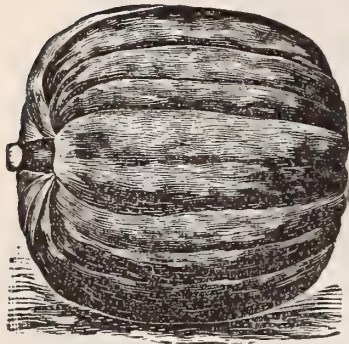
**Perfect Gem.** Equally desirable either as a summer or winter Squash. The squashes are from four to six inches in diameter, of a creamy white, with thin smooth white shell, slightly ribbed.

**Vegetable Marrow.** A favorite English sort. The fruit is from nine to eighteen inches in length and four to six inches in diameter. Skin a greenish yellow, flesh white, soft and of rich flavor. Plant 8 feet apart.

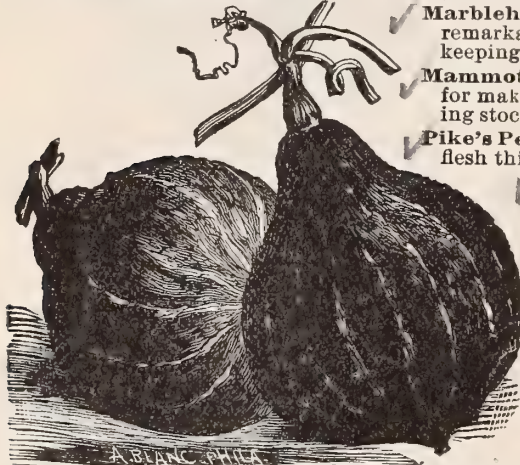
All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by Mail, at prices quoted; Half-pounds, Pounds, Pints, Quarts, and larger quantities if to be sent by Mail, postage must be added to prices quoted at the rate of ten cents per Pound and sixteen cents per Quart.

# SQUASH—Continued.

## Fall or Winter Varieties.



Mammoth Chili Squash.



Hubbard Squash.

**Havana.** A medium leaf, fine texture. Commands a high price.  
**White Burley.** Extra stock, grown largely for the manufacture of fine-cut and plug.  
**Zimmer's Spanish.** One of the most popular and extensively grown cigar varieties.

	Pkt.	Oz.	¼lb.	Lb.
✓ <b>Boston Marrow.</b> A well-known and highly popular winter variety; quality unexcelled.....	05	10	30	1.00
✓ <b>Essex Hybrid.</b> Very prolific, fine-grained, orange-red flesh, very sweet and dry.....	05	10	30	1.00
✓ <b>Fordhook.</b> A new winter Squash of great merit. Of a handsome bright yellow color outside, and straw-yellow within. The flesh is dry and sweet..	05	15	35	1.25
✓ <b>Hubbard.</b> 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.....	05	15	35	1.25
✓ <b>Warty Hubbard.</b> 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.....	05	15	35	1.25
✓ <b>Marblehead.</b> Resembling the Hubbard, but of a lighter color, and is remarkable for its sweetness, dryness and delicious flavor, as well as its keeping qualities.....	05	10	25	75
✓ <b>Mammoth Chili.</b> Rich orange yellow; flesh thick and of good quality for making pies; grows to an enormous size; a valuable sort for feeding stock.....	05	15	50	1.75
✓ <b>Pike's Peak, or Sibley.</b> Skin smooth and thin, and of a pale green color; flesh thick, solid; orange color, very dry; fine grain and delicate flavor..	05	10	25	75
✓ <b>Pine Apple.</b> A fall and winter variety of excellent quality; flesh creamy white, fine-grained and of a rich flavor.....	05	10	25	75

## TOBACCO.

**T**HE 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 the spring, on the ground intended for the seed bed, 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.

	Pkt.	Oz.	¼lb.
<b>Connecticut Seed Leaf.</b> A long leaf, fine in texture.....	05	30	1.00
<b>Conqueror.</b> 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.....	05	30	1.00
<b>Havana.</b> A medium leaf, fine texture. Commands a high price.....	05	40	1.00
<b>White Burley.</b> Extra stock, grown largely for the manufacture of fine-cut and plug.....	05	25	90
<b>Zimmer's Spanish.</b> One of the most popular and extensively grown cigar varieties. Very early; finest quality..	05	30	1.00

## TOMATO.

(Liebesapfel, Ger.)

One Ounce of Seed will produce about 2,000 Plants; ¼ lb. to the Acre.



**S**OW in a hot-bed greenhouse, 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.

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.

# TOMATO—Continued.



Magnus.



The Stone.

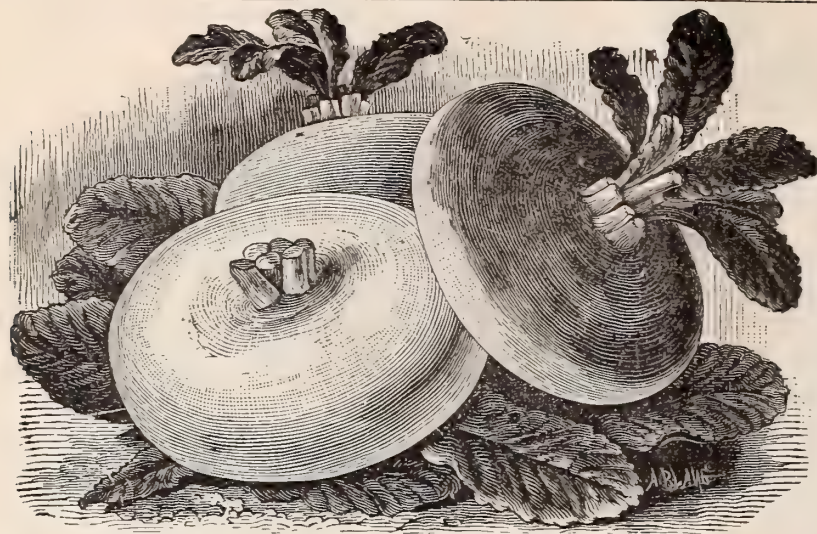
Pkt. Oz. ¼lb. Lb

Pkt. Oz. ¼lb. Lb

✓ <b>Acme.</b> One of the earliest and handsomest. Fruit medium size, perfectly smooth, and regular in shape. Very solid, and a great bearer. Color, dark red, with a purple tinge.....	05	25	70	2.00	✓ <b>Golden Queen.</b> A very handsome yellow tomato; resembles the Paragon in size, solidity and productiveness.....	05	25	70	2.00
✓ <b>Atlantic Prize.</b> See Specialties, .....	05	25	70	.....	✓ <b>Honor Bright.</b> A distinct variety. The plants, while of strong, healthy growth, have yellowish foliage on the lower portions, presenting a rather sickly appearance: The tomatoes at first are white, turning to light yellow, and then to brilliant scarlet, as they become fully ripened. They are very solid, and it is an excellent bearing variety.....	05	20	60	2.00
✓ <b>Buckeye State.</b> The tomatoes are borne in immense clusters of four to eight large fruits. In time of ripening, it matures with the "Stone." In solidity and meatiness, it has no equal, while in luscious quality none surpass it. The color is much the same as "Beauty," but of a somewhat darker and richer shade, and this together with its very large size and clear-cut outlines, makes very showy and striking when displayed for sale.....	05	30	80	2.50	✓ <b>Imperial.</b> One of the earliest, smoothest and most productive sorts. The fruit is large, smooth and solid. It not only produces very early fruits, but it will hold out through the season until late in fall. It is also a splendid keeper. Color, dark red, with a purple tinge.....	05	25	70	2.00
✓ <b>Beauty.</b> 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.....	05	25	70	2.00	✓ <b>Magnus.</b> See Specialties, .....	05	25	70	2.00
✓ <b>Cincinnati Purple.</b> 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	70	2.00	✓ <b>Perfection.</b> The fruit is almost round, ripens clear up to the stem, is solid and rich in flavor. The skin is both thin and tough, making it a good shipper, while its clear, bright scarlet color makes it most attractive	05	20	60	2.00
✓ <b>Dwarf Champion.</b> The vines are dwarf and compact in habit, grow stiff and upright, with thick and short-jointed stems. It is remarkably early, ripening fruit as early as July 1st. It will yield double the quantity of extra early fruit per acre that can be obtained from any other Tomato. In form and color the fruit closely resembles the Acme.....	05	30	90	3.00	✓ <b>Ponderosa.</b> This monster Tomato is all solid meat; is a very handsome variety, being uniformly large, smooth, of a dark rich crimson color, and a delicious sub-acid flavor. To show the enormous size of this great Tomato, we would state that single specimens have been exhibited weighing three pounds four ounces.....	05	25	90	3.25
✓ <b>Enormous.</b> The largest smooth bright red tomato yet produced. The tomatoes are usually round in form, four to five inches in diameter, thick through, and solidly meaty, with small seed-cells. The skin is smooth, highly colored, and free from cracks. In the "most enormous" fruits the form is oblong as though two were joined together. Of strong growth and immensely productive.....	05	35	1.00	.....	✓ <b>Royal Red.</b> A flattened, cushion-shaped fruit, four inches in diameter, quite meaty and of splendid coloring. Popular for canning..	05	20	60	2.00
✓ <b>Favorite.</b> One of the largest. Ripens evenly and early, and holds its size to the end of the season. It is very prolific, has few seeds, solid flesh; bears shipping long distances..	05	25	70	2.00	✓ <b>Stone.</b> A fine variety. The fruit very large, bright scarlet; smooth, ripening evenly to the stem without a crack. Exceedingly solid and firm-fleshed, and, above all, not subject to rot.....	05	20	60	2.00
					✓ <b>Strawberry or Husk.</b> See Specialties, page 5..	05	25	90	.....
					✓ <b>Trophy.</b> An old favorite for general home use; unsurpassed in flavor and productive ness.....	05	20	60	2.00
					✓ <b>Truckers' Favorite.</b> See Specialties, .....	05	30	1.00	.....
					✓ <b>Cherry Red.</b> Used for preserves and pickling	05	30	80	2.50
					✓ <b>Pear Shaped Red and Yellow.</b> Used for preserving and pickling.....	05	30	80	2.50

→ *Norwood Tomatoes.*

*Strawberry or Husk Cherry*



# 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 mel-  
low. 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  
8 or 10 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.

White Flat Dutch.

Purple Top, Strap-Leaf.

✓ <b>Red or Purple Top, Strap-Leaf.</b> This is the most popular variety grown for table purposes. An early, flat, white Turnip, with purple top; of excellent quality. The best variety for general use.....	Pkt.	Oz.	¼lb.	Lb
✓ <b>Early White Flat Dutch.</b> An early, white-fleshed variety, of quick growth, mild flavor, and excellent quality..	05	10	20	40
✓ <b>Extra Early Purple Top Milan.</b> This variety is at least two weeks earlier than any other. It is of a handsome appearance, somewhat flattened, white, with purple top; flesh, snow-white, fine grained, and delicate flavor..	05	10	25	60
✓ <b>Scarlet Kashmir.</b> See Specialties.....	05	15	35	1.00
✓ <b>Purple Top White Globe.</b> A variety of decided merit. Of globular shape, very handsome, and of superior quality, either for the table or stock. It is a heavy producer, early, of rapid growth, and an excellent keeper..	05	10	20	40
✓ <b>Large White Globe, Strap-Leaf.</b> Flesh white, firm and crisp; a very desirable early variety.....	05	10	20	40
✓ <b>Snowball.</b> Extra early. A variety of sterling merit, perfectly round, early, pure white, very solid, sweet, short top..	05	10	20	50
✓ <b>Golden Ball or Orange Jelly.</b> A rapid grower, of excellent flavor, globe-shaped, bright yellow color, good keeper and a superior table variety, or for stock.....	05	10	20	40
✓ <b>Amber Globe.</b> 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.....	05	10	20	40
✓ <b>Early White Egg.</b> An egg-shaped variety for spring or fall sowing; flesh white, firm, fine grained, mild and sweet..	05	10	25	50
✓ <b>Long White, or Cow Horn.</b> Grows quickly, partly above ground; very productive; flesh white, fine grained and sweet, of excellent quality for family and market gardeners' use.....	05	10	20	40
✓ <b>Seven Top.</b> Cultivated extensively in the South for the tops, which are used for greens. It is very hardy, and will grow all winter. Does not produce a good root.....	05	10	20	40
✓ <b>Purple-Top Yellow Aberdeen.</b> Is one of the most popular foreign varieties. It resembles a very handsomely-formed Ruta Baga, and for feeding purposes is fully equal to them, and keeps solid until very late in the season. It can be sown with success fully a month later than the Swede, and is also quite desirable for table use..	05	10	20	40

## RUTA BAGA.

✓ <b>Budlong's Improved.</b> White, very sweet, much milder flavor than any of the other sorts; globe-shaped; skin a cream yellow.....	05	10	20	40
✓ <b>American Purple Top.</b> Very hardy and productive; flesh yellow, solid, sweet; good for stock or table use....	05	10	20	40
✓ <b>Skirving's Purple Top.</b> An important variety of large size and strong growth, a heavy cropper and one of the best for field culture.....	05	10	20	40

## VEGETABLE PLANTS AND ROOTS.

We will keep the following varieties on hand in their proper season. Prices do not include prepayment by mail or express:

	PER 100.	PER 500.	PER 1,000.		PER 100.	PER 1,000.	PER DOZ.
<b>SPARAGUS ROOTS.</b>				<b>HORSE-RADISH SETS.</b>			
✓ <b>Barr's Mammoth.</b> Two-year-old roots.....	\$1 00	\$4 25	\$7 00	OSAGE ORANGE PLANTS. (For Hedge).	\$0 75	.....	15c.
✓ <b>Colossal</b> .....	80	3 75	6 00	Strong Plants.....	50	4 00	.....
✓ <b>Columbian Mammoth White</b> .....	1 00	4 25	7 00	<b>PEPPER PLANTS.</b>			
✓ <b>Palmetto</b> .....	1 00	4 25	7 00	Large Bell, or Bull Nose.....	1 50	.....	30c.
<b>CABBAGE PLANTS.</b>				Ruby King.....	1 50	.....	30c.
✓ <b>Early Jersey Wakefield</b> .....	50	.....	4 00	<b>SWEET POTATO PLANTS.</b>			
✓ <b>Louisville Drumhead</b> .....	50	.....	4 00	Mansemoud, or Jersey Yellow.....	30	2 50	.....
✓ <b>Premium Late Flat Dutch</b> .....	40	.....	3 00	Red Bermuda.....	40	3 50	.....
	PER DOZ.	PER 100.	PER 1,000.	Southern Queen.....	35	3 00	.....
<b>CAULIFLOWER.</b>				<b>TOMATO PLANTS.</b>			
✓ <b>Earliest Dwarf Erfurt</b> .....	25c	\$1 50	.....	Cincinnati Purple, Dwarf Champion,			
✓ <b>Henderson's Snowball</b> .....	25c	1 50	.....	Ace, Trophy, Beauty, Favorite,			
<b>CELERY PLANTS.</b>				Buckeye State and Stone.....	1 50	.....	20c.
White Plants.....		50	3 50	<b>RHUBARB ROOTS.</b>			
Golden-Hearted Dwarf.....		50	3 50	Single Eye.....	10c ea.	.....	\$1 00
Golden Self-Blanching.....		50	3 50	Large Clumps.....	25c to 50c each.		
✓ <b>CHIVES.</b> Good Clumps.....	10c ea.	\$1 00	.....				
✓ <b>EGG PLANT.</b> New York Improved.....	40c	2 50	.....				

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

## HERB SEEDS.

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. A few sweet aromatic and medicinal herbs are very valuable for flavoring soups, etc., and care should be taken to harvest them properly on a dry day, as they come into full blossom, then dry quickly and pack closely, entirely excluding the air.

	PER OZ.	PKT.		PER OZ.	PKT.		PER OZ.	PKT.
<b>Anise,</b> biennial.....	15c.	5c.	<b>Fennel, Sweet,</b> perennial, 6 ft.....	10c.	5c.	<b>Saffron,</b> annual, 3 ft.....	10c.	5c.
<b>Balm, Sweet,</b> perennial, 1 ft.....	30c.	5c.	<b>Horehound,</b> perennial, 2 ft.....	25c.	5c.	<b>Sage,</b> annual, 1 ft., 50c ¼lb.....	15c.	5c.
<b>Basil, Sweet,</b> annual, 1 ft.....	20c.	5c.	<b>Hyssop,</b> perennial, 3 ft.....	25c.	5c.	<b>Summer Savory,</b> annual.....	15c.	5c.
<b>Caraway,</b> perennial, 2 ft.....	10c.	5c.	<b>Lavender,</b> perennial, 2 ft.....	20c.	5c.	<b>Sweet Marjoram,</b> annual.....	20c.	5c.
<b>Dill,</b> biennial, 3 ft.....	10c.	5c.	<b>Rosemary,</b> perennial, 4 ft.....	30c.	5c.	<b>Thyme,</b> annual, 1 ft.....	30c.	5c.

## 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; under the term "**Perennials**" are classified 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.

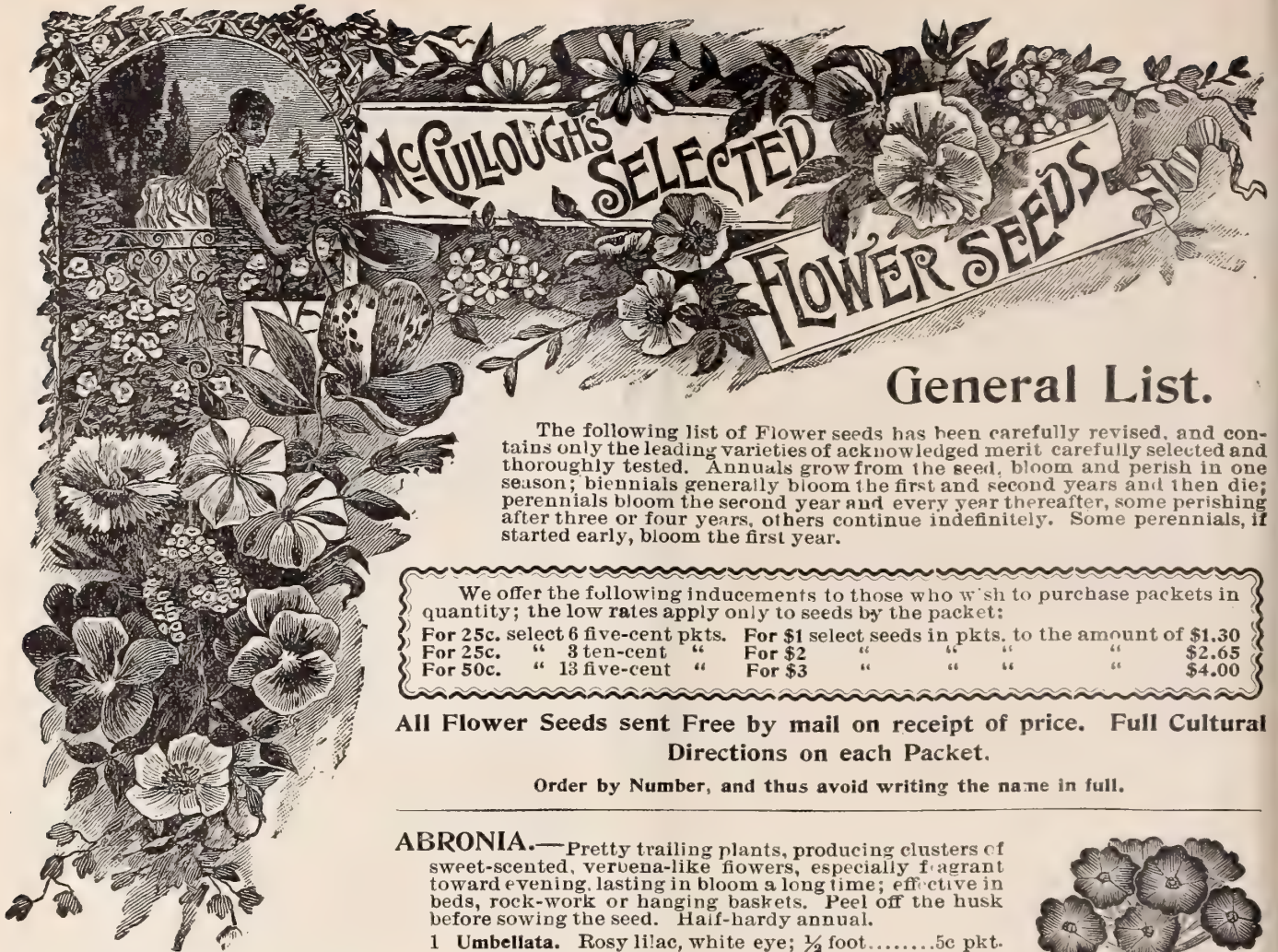
Sow in April or May, either in their permanent place in the open ground, or in shallow boxes two or three inches deep, placed in a warm window, or in a hot-bed, the latter method being generally preferable, as plants grow hardier by being transplanted. The selection of the soil is a very important point; 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*, etc., as the seeds are very small and delicate. Sow the seed in well drained pans, choosing for soil a fine sandy leaf-mold; 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.



## 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 packets in quantity; the low rates apply only to seeds by the packet:

For 25c. select 6 five-cent pkts.	For \$1 select seeds in pkts. to the amount of \$1.30
For 25c. " 3 ten-cent "	For \$2 " " " " \$2.65
For 50c. " 13 five-cent "	For \$3 " " " " \$4.00

All Flower Seeds sent Free by mail on receipt of price. Full Cultural Directions on each Packet.

Order by Number, and thus avoid writing the name in full.

**ABRONIA.**—Pretty trailing plants, producing clusters of sweet-scented, vervena-like flowers, especially fragrant toward evening, lasting in bloom a long time; effective in beds, rock-work or hanging baskets. Peel off the husk before sowing the seed. Half-hardy annual.

1 *Umbellata*. Rosy lilac, white eye; ½ foot.....5c pkt.



**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.

2 *Finest Mixture* of choicest varieties and colors .....10c pkt.



Abutilon.

**ACACIA.**—Elegant half-hardy shrubs, having fine ornamental foliage, and beautiful racemes of various shades of yellow globular flowers. Soak the seed in warm water before sowing.

3 *Finest Mixed*. In great variety, 6 to 10 feet.....10c pkt.



Abronia.

**ACHILLEA.**—A very 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.

4 *The Pearl*. Pure white double flowers; 1½ feet..... 10c pkt.

**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.

5 *Album Fl. Pl.* Double White .....5c pkt.

6 *Roseum Fl. Pl.* Double bright rose .....5c pkt.

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

**ADONIS.**—(Flos Adonis.) Showy hardy annual of easy culture, with pretty fine-cut foliage, and lasting a long time in bloom.

8 *Æstivalis*. Dark crimson flowers, with a light center; 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, etc., it is very desirable.

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

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

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

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



Agrostemma.



Ageratum—Blue Perfection.

**AGERATUM.**— Valuable plants for large beds or borders, and very useful where cut-flowers are in demand; in bloom the whole summer. Easily raised from seed, which should be sown in March, 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. PER PKT.

- 12 **Blue Perfection.** Dwarf compact growth, large dark-blue flowers; valuable for borders and bedding ..... 10c
- 13 **Grandiflorum Album.** Large pure white, fragrant; a great improvement on the old white sorts ..... 10c
- 14 **Lasseauxii.** Fine rose, long bloomer, 1½ ft. .... 5c
- 15 **Little Dorrit.** Azure blue, very floriferous, ¾ ft. .... 5c
- 16 **Swanley Blue.** Large deep blue, fine for bedding, ¾ ft. 5c

**ALLEGHENY VINE.**—(See Adlumia.)

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

- 17 **Sweet.** Flowers pure white ..... oz. 25c, 5c pkt.
- 18 **Little Gem.** Dwarf, compact habit, three to four inches high, excellent for edging; white flowers. oz. 40c, 5c pkt.
- 19 **Saxatile Compactum.** Most 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.

- 20 **Brilliant.** Foliage bright red, the ends of the branches being a combination of carmine, rose, red and yellow, 4 to 6 feet ..... 5c
- 21 **Caudatus (Love Lies Bleeding).** Long drooping scarlet flowers, 3 feet ..... 5c
- 22 **Melancholicus Ruber.** Dwarf compact habit, blood-red foliage, 2 feet ..... 5c
- 23 **Salicifolius.** (Fountain Plant.) Long undulated foliage, beautifully variegated, 3 feet ..... 5c
- 24 **Tricolor Splendens (Joseph's Coat).** Rich glowing, scarlet crimson, effectively marked with yellow and bronze green, 2 feet ..... 5c

**AMMOBIUM.**— One of the hardiest of everlastings, very 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.

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

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

- 26 **Veitchii.** (Boston or Japanese Ivy.) Fifty feet ..... 10c pkt.

**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.

- 27 **Coronaria, Finest Mixed.** The well-known spring-flowering garden anemone, 1 foot ..... 5c pkt.
- 28 **Japonica Alba (The Bride).** Pure white, flowering in late summer and autumn ..... 10c pkt.

**ANTHERICUM.**— One of the finest ornamental garden plants, producing freely, fine spikes of sweet-scented lily-like flowers through the summer. Hardy perennial, 1½ feet. PER PKT.

- 29 **Liliago (St. Bernard's Lily).** Pure white ..... 5c
- 30 **Liliastrum (St. Bruno's Lily).** White with delicate spots ..... 5c

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

- 31 **Firefly.** Dwarf brilliant scarlet ..... 5c
- 32 **Golden Queen.** Large flowering pure yellow. Extra fine ..... 10c
- 33 **Queen of the North.** Grows one foot in height, and densely covered with large white flowers. A gem for beds and borders, and valuable for pot culture. .... 10c
- 34 **Dwarf, Finest Mixed** ..... 5c
- 35 **Tall, Finest Mixed** ..... 5c

36 **ARCTOTIS, GRANDIS.**—Handsome new annual from southwest Africa, with large flower heads 2¼ to 3 inches across. Pure white with light-blue center, the under side of petals being pale lilac. Of the easiest culture, and flowering in constant succession from early summer until late fall. .... 10c



Alyssum—Little Gem.



Antirrhinum—Tom Thumb.

**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.

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|--|----------|
|  | PER PKT. |
| 37 Alba Flore Plena. Beautiful double pure white variety, 1½ feet                      | 5c       |
| 38 Californica Hybrida. Large yellow flowers, with dark orange spurs                   | 10c      |
| 39 Chrysantha. Bright golden yellow, fine; 3 feet                                      | 5c       |
| 40 Coerulea Hybrida. Large sulphur yellow flowers, blue spurs and sepals, fine; 2 feet | 10c      |
| 41 Skinneri. Scarlet tipped with green, very handsome and quite distinct.              | 10c      |
| 42 Stuarti. Large erect blue flowers, pure white corolla.                              | 10c      |
| 43 Double, Mixed. Choice colors  | 5c       |
| 44 Single, Mixed. Choice colors  | 5c       |

**ARISTOLOCHIA**.—(Dutchman's Pipe). A hardy perennial climber, of rapid, luxuriant growth, with large, heart-shaped leaves.

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|---|----------|
|   | PER PKT. |
| 45 Siphon. Brown-colored flowers, resembling in shape a pipe. | 5c       |

46 **ASPARAGUS PLUMOSUS NANUS**.—This graceful climbing Asparagus has fine foliage, and will last for weeks after being cut. It is an excellent house plant

47 **ASPARAGUS SPRENGERI**.—(Emerald Feather). One of the best plants to grow in suspended 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

**ASPERULA**.—A profuse-flowering plant, with deliciously sweet-scented bright azure-blue flowers, and elegant foliage. Hardy annual.

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|---------------------------------------|---------|
| 48 Azurea Setosa. Blue; free bloomer. | 5c pkt. |
| 49 Odorata (Woodroof). Very fragrant  | 5c pkt. |



Aquilegia.

**ASTERS.**

The Aster is one of the most popular and effective of our garden favorites. For beauty and variety of habit, form and color, it stands unrivaled. No family of plants bears such distinct marks of progress in the last few years, in improved strains and new varieties. 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.

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|--|----------------------------------|
| 50 McCullough's Premier, Mixed. This mixture is composed of the finest large flowering double varieties, which, for size of flower, excellence of color and habit cannot be surpassed. Grown by specialists in Europe and America, each variety imported separately and mixed by ourselves; the finest ever offered. | oz. \$5.00, ½ oz.; 70c, 10c pkt. |
|  | PER PKT.                         |
| 51 Betteridge's Improved Quilled. Perfectly double, quill-shaped petals, valuable for bouquets or bedding. Finest mixed; 1½ ft.  | 5c                               |
| 52 Chrysanthemum Flowered Dwarf. Compact growth, large perfectly double flowers. Finest mixed. ¾ ft.   | oz. \$2.50, 5c                   |
| 53 Crown or Cocardeau. Showy flowers, double, with white centers bordered with bright colors. Finest mixed. 1½ ft  | 10c                              |
| 54 Dwarf Pyramidal Bouquet. Pyramid-shaped plants with brilliant-colored flowers. Finest mixed   | 10c                              |



McCullough's Premier Aster.

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

- |  |                 |
|--|-----------------|
|  | PER PKT.        |
| 55 Brilliant Rose  | 10c             |
| 56 Brilliant Scarlet   | 10c             |
| 57 Dark Blue   | 10c             |
| 58 Glowing Dark Crimson  | 10c             |
| 59 Rose and White  | 10c             |
| 60 Light Blue  | 10c             |
| 61 Snow White  | 10c             |
| 62 Finest Mixed, all colors  | oz. \$2 50, 10c |
| 63 Triumph. A dwarf-growing Pæony-flowered Aster; flowers perfectly double, of faultless form and of the deepest, richest scarlet  | 10c             |
| 64 Daybreak. A grand variety, of American origin. 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             |
| 65 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             |



Pæony Perfection Aster.



ASTERS.—Continued.

**Giant Comet.** One of the handsomest of the tall-growing sorts. The plants grow about 18 inches 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.

66 Azure. Blue.....	PER PKT. 10c	70 Violet.....	PER PKT. 10c
67 Crimson.....	10c	71 White.....	10c
68 Rose.....	10c	72 Yellow.....	10c
69 The Bride. White passing to rose.....	10c	73 Mixed. All colors.....	oz. \$2.50, 10c



Simple's Giant Aster.

- 74 **Giant Emperor.** Flowers of enormous size, very double, brilliant colors; finest mixed. 2 ft. .... 10c
- 75 **Goliath.** Large double, of great beauty; finest mixed, 2 ft. .... 10c
- 76 **Harlequin.** Large flowers with striped petals, free flowering 2 ft. .... 10c
- 77 **Japanese Mixed.** Flowers of immense size, with long petals curiously crested and curled; vigorous grower, with long stems ..... 10c
- 78 **Mignon.** A valuable class, resembling in habit, height and form the Victoria, with flowers a little smaller, but more freely produced; and keeping a long time. Finest mixed, 1½ ft. .... 10c
- 79 **Princess.** Splendid new class, with very double, beautifully imbricated, short petaled flowers resembling Pompon Dahlias; free and long bloomer, superior for cutting. 1¼ ft. Finest mixed ..... 10c
- 80 **Prince of Wales.** Large globular flowers of beautiful and brilliant colors. Finest mixed 1½ ft. .... 10c

**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 1½ ft.

81 Crimson.....	5c pkt.	84 Rose.....	5c pkt.
82 Dark Blue.....	5c pkt.	85 White.....	5c pkt.
83 Light Blue.....	5c pkt.	86 Mixed. All colors.....	oz. \$2.00, 5c pkt.

87 **Rose Flowered.** A beautiful variety, pyramidal, robust habit, regular imbricated, brilliant-colored flowers 10c pkt.

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

88 Carmine.....	10c pkt.	91 Purple.....	10c pkt.
89 Pink.....	10c pkt.	92 White.....	10c pkt.
90 Lavender.....	10c pkt.	93 Mixed. All colors.....	oz. \$2.00, 10c pkt.

**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, 1½ ft.

94 Blue and White.....	PER PKT. 10c	99 Scarlet.....	PER PKT. 10c
95 Crimson.....	10c	100 White.....	10c
96 Dark Blue.....	10c	101 Yellow.....	10c
97 Light Blue.....	10c	102 Finest Mixed. All colors.....	oz. \$3.00, 10c
98 Rose.....	10c		

- 103 **Washington.** This splendid variety is the largest Aster grown, bearing flowers 5 to 6 inches in diameter, very double, mixed colors ..... 10c pkt.
- 104 **Fine Mixed.** A splendid mixture of colors ..... oz. 50c, 5c pkt.
- 105 **Perennial Mixed.** 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.

**BALSAM** (Lady Slipper, or Touch-Me-Not). One of the oldest and best known summer-blooming annuals, of easy culture, producing the most striking flowers in abundance. Desirable for garden or pot culture. The soil should be of the richest and best quality. Set them about fifteen inches apart, and give them plenty of manure-water. Tender annuals; 2 feet.

- 106 **McCullough's Premier Mixed.** Unrivalled for the great variety of color and size of flower; includes all the most desirable shades and colors ..... oz. \$1.50, 10c
- 107 **Double Camellia Flowered, Mixed.** Of perfect form, beautiful colors ..... oz. \$1.25, 10
- 108 **Prince Bismarck.** Brilliant salmon rose flowers; very double, of finest camellia-flowered type ..... 10c
- 109 **White Perfection.** The finest pure white grown; flowers unusually large, solid and double ..... oz. \$1.50, 10c
- 110 **Double Solferino.** White, striped, purple and scarlet ..... 5c
- 111 **Rose Flowered, Double Scarlet** ..... 5c
- 112 **Rose Flowered, Double Pink** ..... 5c
- 113 **Choice Double Mixed.** All kinds ..... oz. 50c, 5c



Balsam, McCullough's Premier Mixed.

**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.

- 114 **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.

- |   |          |
|---|----------|
|   | PER PKT. |
| 115 New Frilled. A unique form, with large single flowers, which are entirely distinct. The petals being wavy and beautifully frilled on the edges similar to the newer forms of Petunias ..... | 25c      |
| 116 Single Tuberous Rooted. Extra choice mixed .....  | 15c      |
| 117 Double Tuberous Rooted. Extra choice mixed .....  | 25c      |
- Semperflorens.** The following new perpetual flowering varieties are very effective for bedding and greenhouse decoration.
- |  |     |
|--|-----|
| 118 " <b>Crimson Gem.</b> Rich red flowers, bronzy crimson foliage.                      | 15c |
| 119 " <b>Duchess of Edinburgh.</b> Large white flowers, suffused with pink .....         | 15c |
| 120 " <b>Vernon.</b> Bright orange-carmine flowers, deep red foliage.                    | 15c |
| 121 <b>Rex Hybrida.</b> Beautiful varieties, with variegated foliage, choice mixed ..... | 25c |



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.



Bellis—Double Daisy.

**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.

- |   |          |
|---|----------|
| 122 Longfellow. Large, double dark pink flowers; with long stiff stems .....                                    | 10c pkt. |
| 123 Snowball. A beautiful white variety, with long stem, and very double flowers; fine for cutting .....        | 10c pkt. |
| 124 New Giant Double. Beautifully and densely imbricated flowers 1½ to 2 inches in diameter. Finest mixed ..... | 10c pkt. |

**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.

- |   |         |
|---|---------|
| 125 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.

- |  |          |
|--|----------|
| 126 Speciosa Major. A beautiful new large flowering variety of the most brilliant ultramarine blue; especially valuable as a pot plant for winter and early spring flowering ..... | 10c pkt. |
| 127 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.

- |                              |         |
|------------------------------|---------|
| 128 Laciniosa. 10 feet ..... | 5c pkt. |
|------------------------------|---------|

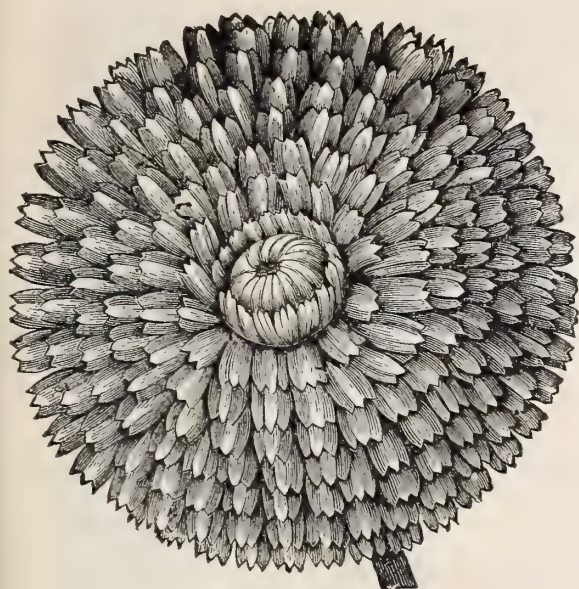
**CACTUS.**—Beautiful plants for pot culture in the window or greenhouse. The flowers of some are very beautiful, and the foliage of others very curious.

- |                           |          |
|---------------------------|----------|
| 129 Mixed Varieties ..... | 15c pkt. |
|---------------------------|----------|



Group of Cacti.

**For Novelties and Specialties, see Colored Pages.**



Calendula (Prince of Orange.)



Coreopsis Lanceolata Grandiflora

**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.

- 130 **Ponge Flore Pleno.** Showy, very double white flowers 5c
- 131 **Meteor.** A splendid variety, very large double striped and imbricated flowers, of a deep orange on a pale yellow ground ..... 3 c oz., 5c
- 132 **Prince of Orange.** This novelty surpasses in beauty the well-known Calendula Meteor. The stripes around each petal are of a deep orange color, making a brilliant appearance..... 30c oz., 5c
- 133 **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.

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



Calceolaria.

**CALLIOPSIS OR COREOPSIS.**

Showy and beautiful free-flowering plants, blooming all summer and excellent for cutting. 1½ to 2 feet. PER PKT.

- 135 **Coronata Maxima.** Showy large yellow hardy annual, 40c oz., 5c
- 136 **Golden Wave.** A very showy sort, with bright golden-yellow flowers, with small dark centers, blooming profusely. Hardy annual ..... 30c oz., 5c pkt
- 137 **Finest Mixed.** All colors mixed. Hardy annual, 30c oz., 5c pkt
- 138 **Lanceolata Grandiflora.** Improved varieties. The flowers, besides being very large, vary in form; some are flat while others are like Giant Buttercups, with broad fringed petals, and range from light to very deep yellow. The stems are long and the flowers keep fresh in water for a week or ten days. Hardy perennial ..... 10c pkt.

**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.

- 139 **Media Calycanthema.** White and blue flowers resembling a cup and saucer, 5c pkt.
- 140 **Mirabilis.** In form and size of bloom resembling the Canterbury Bell. Growing to a height of two feet, is of pyramidal outline, each branch producing at the end a large number of light blue or violet flowers, the quaintly-toothed, leather-like leaves presenting a really beautiful appearance ..... 10c pkt.
- 141 **Persicifolia Grandiflora.** Fine beautiful variety ..... 10c pkt.
- 142 **Double Mixed.** All colors ..... 5c pkt.
- 143 **Single Mixed.** All colors ..... 5c pkt.

**FOR EARLY BLOOM.**

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

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



Cup and Saucer Campanula.

**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 annual.

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|---|-------------|
|   | PER PKT.    |
| 144 <b>Giant Hyacinth Flowered.</b> 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 |
| 145 <b>Empress, or Snow Queen.</b> Large trusses of pure white flowers, fine florist's variety.....   | oz. 30c, 5c |
| 146 <b>White Rocket.</b> Pure white, large truss.....   | oz. 20c, 5c |
| 147 <b>Odorata.</b> Pure white, sweet-scented flowers; pinnated foliage; 1 ft.....  | oz. 20c, 5c |
| 148 <b>Carmine</b> .....  | oz. 25c, 5c |
| 149 <b>Atropurpurea.</b> Dark crimson.....  | oz. 20c, 5c |
| 150 <b>Finest Mixed.</b> All colors.....  | oz. 20c, 5c |
| 151 <b>Tom Thumb.</b> Finest mixed; all colors; 6 inches.....   | 5c          |
| 152 <b>Perennial Candytuft Sempervirens.</b> A profuse white-blooming hardy perennial, adapted for rockeries, baskets, etc.; 1 foot.....  | 5c          |
| 153 <b>Perennial Candytuft Gibraltarica Hybrida.</b> Very fine species, with white flowers, shading off to lilac; 1 foot.....   | 10c         |



Candytuft Giant Hyacinth Flowered.

**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.



Crozy's Cannas.

**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.

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|  | PER PKT.    |
| 154 <b>Crozy's New Large-flowering Dwarf, French.</b> Comprising all the newest and most beautiful varieties. (See cut)..... | oz. 40c, 5c |
| 155 <b>Gigantea Major.</b> Dark red; 6 to 8 feet.....  | 5c          |
| 156 <b>Fine Mixed</b> .....  | oz. 25c, 5c |
| 157 <b>Dark-leaved Varieties.</b> Fine mixed.....  | 5c          |

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

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| 158 <b>Cardiospermum.</b> (Love-in-a-Puff.) White; 5 feet..... | 5c pkt. |
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**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



Marguerite Carnation.

when two or three years old they are injured by winter cold, so that sowings should be made every year.

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|---|---------------------|
|   | PER PKT.            |
| 159 <b>Marguerite.</b> 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..... | 1/2 oz. \$1.00, 10c |
| 160 <b>Marguerite, White.</b> Fine double flowers.....  | 10c                 |
| 161 <b>Marguerite Giant.</b> Extra large and perfect flowering, in a rich variety of colors, including yellow; 80 per cent. of the flowers come double; 1 foot.....   | 20c                 |
| 162 <b>Chabaud Giants.</b> (Earliest French Perpetual.) Improved large-flowering class of finest colors. Combining earliness with the perfection of flowers of the perpetuals.....  | 20c                 |
| 163 <b>Riviera Market.</b> The finest Perpetual Carnations and of nearly as rapid growth as the Marguerite class; over 80 per cent. of splendid double flowers, with a large percentage of yellows.....   | 20c                 |
| 164 <b>Grenadin.</b> Brilliant double scarlet, dwarf.....   | 10c                 |
| 165 <b>Extra Choice, Mixed.</b> From the finest-named varieties.....  | 25c                 |
| 166 <b>Fine Double, Mixed.</b> The hardiest and best varieties for garden culture.....  | 10c                 |

**CASTOR OIL BEAN.**—(See Ricinus.)



**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.

167 *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.

168 *Glasgow Prize*. A superb sort, with enormous rich deep crimson combs..... 10c pkt.

169 *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 pkt. 25c

170 *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 pleasing contrast.

10c pkt. 3 pkt. 25c

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

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

173 *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.

174 *Imperialis*. This beautiful class is the result of a cross between *C. Moschata* and *C. Marguerite*, and inherit from the latter the beautiful sweet-scented, artistic-shaped flowers, but much improved in size and borne on long, strong stems, and when cut will stand for several days in good condition. The plant is a strong grower, of the easiest culture, flowering continuously from early summer till autumn. Finest mixed..... 10c pkt. 3 pkts. 25c

175 *Chameleon*. Large fragrant flowers, constantly changing in hue from a bright yellow to lilac and rose ..... 10c pkt.

176 *Depressa*. (King of Cornflowers.) This new variety the clear, deep blue flowers are much larger. Plant also larger and more vigorous; a great improvement ..... 10c pkt. 3 pkt. 25c



*Celosia. Glasgow Prize.*

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

178 *Moschata, Finest Mixed*. (Sweet Sultan.) Sweet-scented and free flowering, in choice colors; 2 feet ..... 5c pkt.

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

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

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

182 *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. 40c, 5c pkt.



*Centaurea Marguerite.*

**Perennial Silver-leaved Centaureas.** Fine for bedding, vases, hanging-baskets and pots; also extensively used for margins. Sow the seed from December to April.

183 *Candidissima*. Silvery white, leaves broadly cut..... 10c pkt.

184 *Gymnocarpa*. Fine-cut silver gray foliage.....oz. \$1.00, 10c pkt.



*Centaurea Cyanus Double.*



**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.

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|---|-------------|
|   | PER PKT.    |
| 185 Eclipse. Golden yellow, with a bright scarlet ring and dark brown disc .....  | 5c          |
| 186 Segetum Morning Star. Beautiful large yellow flowers, excellent for cutting....   | 5c          |
| 187 The Sultan. Crimson maroon, golden yellow centre .....  | 5c          |
| 188 Coronarium. Double white .....  | 5c          |
| 189 Coronarium. Double Yellow .....   | 5c          |
| 190 Double Fringed Hybrids. Fine strain, with large, double, beautifully fringed flowers in many colors. ....   | 5c          |
| 191 Finest Mixed. Double and single, extra choice .....   | oz. 25c, 5c |
| 192 Frutescens. Marguerite, or Paris Daisy. White, star-like flowers, with a yellow centre; perennial .....   | 10c         |
| 193 Inodorum Pleno. Double, snow-white, very free-flowering, and fine for cutting. A perennial, flowering the first year from seed .....  | 10c         |
| 194 Maximum Triumph. A new Moonpenny Daisy, surpassing all previous sorts in the size of its flowers, which average 4 inches across, and in its free-flowering qualities; the blossoms of the purest white, with yellow centres, and are borne on long, strong stems, lasting a long time when cut. Hardy perennial ..... | 10c         |
| 195 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 .....  | 20c         |

**For Early Bloom.**—Flowering soon after the seed is sown, we would recommend Alyssum, Candytuft, Calliopsis, Larkspur, Mignonette, Petunia, Phlox and Double Poppies.

**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.

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|   | PER PKT.    |
| 196 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         |
| 197 Double Mixed. Large flowering double varieties. All the rich and beautiful colors of the single sorts exist in this beautiful selection .....   | 50c         |
| 198 Maritima Candidissima. (Dusty Miller.) Silver foliage. Fine for bedding; ribbon beds and margins, half hardy perennials. 2 feet .....   | oz. 75c, 5c |

**CLARKIA.**—A most desirable, free-growing plant, blooming in almost any soil, but when planted in rich loam its beauty is unsurpassed. Will continue in bloom nearly all summer. Sow in April or May and thin out. Hardy annual.

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|--------------------------------|-------------|
|                                | PER PKT.    |
| 199 Finest Double. Mixed ..... | oz. 40c, 5c |
| 200 Finest Single. Mixed ..... | oz. 40c, 5c |

**CLEMATIS.**—Handsome hardy climbers, for training on walls, trellises, etc., or drooping over rock work. Hardy perennial.

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|--|----------|
|  | PER PKT. |
| 201 Large-flowering Mixed (Jackman's). Flowers 3 to 4 inches across, of charming shades of blue, white, purple, etc .....  | 10c      |
| 202 Paniculata. One of the finest. Of robust habit, and covered from the ground to the summit with pure white, fragrant flowers, freely produced, completely hiding the foliage. The flowers are followed by pretty seed pods of bronzy red. 12 feet ..... | 10c      |



Cineraria Hybrida Grandiflora.

**CLIANTHUS.**—(Australian Glory Pea.) A beautiful perennial shrub, with clusters of rich scarlet pea-shaped flowers, 3 inches in length, each flower picturesquely marked with a large black blotch in the center. Sow the seed in small pots, as the roots will not bear removal. Half-hardy.

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| 203 Dampierii ..... | 5c pkt. |
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**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.

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|---|----------|
| 204 Scandens. Large, bell-shaped purple flowers ..... | 10c pkt. |
| 205 Scandens Alba. Pure white .....                   | 10c pkt. |

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

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|---|----------|
| 206 New Large-leaved Varieties. Finest mixture, saved from new varieties, with very large and superbly variegated foliage ..... | 25c pkt. |
|---|----------|

**COLUMBINE.**—(See Aquilegia.)

**CONVOLVULUS MINOR.**—(Dwarf Morning Glory.) Rich-colored handsome dwarf trailing plants producing in beds and mixed borders an unusually brilliant effect. Hardy annuals. 1 foot.

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|---|---------|
| 207 Mauritanicus. A beautiful trailing variety for vases, baskets, etc.; flowers blue, white, and yellow throat ..... | 5c pkt. |
| 208 Dwarf, Mixed. Including many varieties .....  | 5c pkt. |



Coleus.



Imperial Japanese Morning Glory.

**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.

- 209 **Finest Mixed.** All colors.....oz. 15c, 5c pkt.
- 210 **Double Flowering.** About eighty per cent. of the seedlings will produce double flowers, the remainder semi-double or single ..... 10c pkt., 3 pkts. for 25c
- 211 **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 if sown early will produce magnificently. Choicest mixed. 10c pkt., 3 pkts. for 25c

**COREOPSIS**—(See Calliopsis.)

**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



Cosmos.

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.

- 212 **Giant Rainbow.** One of the most magnificent new Cosmos that have yet been introduced; large lacinated and frilled flowers, often 3½ to 4 inches in diameter, borne on tall graceful plants, consisting of the finest shades of white, cream, blush and mauve; some are daintily flecked like bird's eggs, others have markings of red, lavender and pink. It is the perfection in form and color of this valuable cut flower now so largely in demand. 15c pkt., 2 pkts. for 25c.
- 213 **California Monster Hybrids.** The flowers of this new strain are of immense size, and produced in great diversity of form and color. Finest mixed ..... oz. \$1.00, 10c pkt.
- 214 **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.

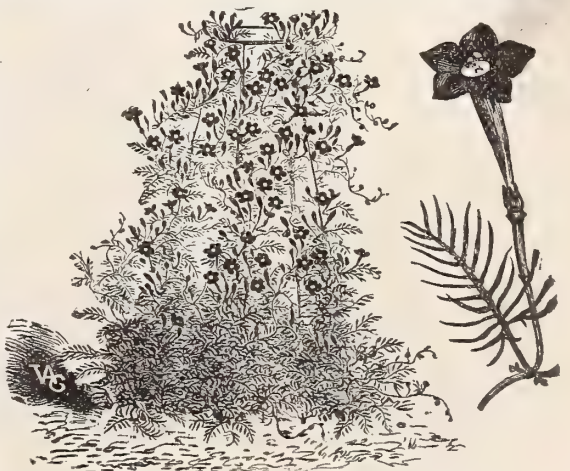
215	Large-Flowered Perfection, Crimson.....	PER PKT. oz. 75c, 10c
216	“ “ “ Pink.....	oz. 75c, 10c
217	“ “ “ White.....	oz. 75c, 10c
218	“ “ “ Mixed.....	oz. 60c, 5c

**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°. 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.



Cyclamen.

- 219 **Butterfly.** This strain has taken first prize at every exhibition. Besides containing the colors of the old section it has many new tints. The petals are broad across the top instead of pointed, while the edges are finely curled or gracefully waved, which lends a charming appearance to the usually large flowers.....50c pkt.
- 220 **Crimson King.** Very large, brilliant color. .... 35c pkt.
- 221 **Duke of Connaught.** Rich purplish crimson, of unusually large size. .... 35c pkt.
- 222 **Excelsior.** White, red base; fine. .... 35c pkt.
- 223 **Mont Blanc.** Pure white; extra fine. .... 35c pkt.



Cypress Vine.

- 224 **Princess May.** Bright pink, beautiful large flowers of fine form. 35c
- 225 **Finest Mixed.** A magnificent strain, with flowers of large size and great substance. The leaves are large and beautifully marked with silver grey..... 25c

**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. PER PKT.

- 226 **Scarlet** .....oz. 80c, 5c
- 227 **White** .....oz. 30c, 5c
- 228 **Mixed Colors** .....oz. 25c, 5c

**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.

**DAHLIA.**—One of our best autumnal 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.

- |  | PER PKT. |
|--|----------|
| 229 <b>Double Large-Flowered.</b> Saved from the best double largest-flowered sorts; unrivalled strain ..... | 10c      |
| 230 <b>Pompon.</b> Small-flowered; from named varieties; very fine .....                                     | 10c      |
| 231 <b>Single Giant Perfection.</b> A new strain, surpassing all others in size and colors .....             | 10c      |
| 232 <b>Cactus.</b> Brilliant-colored Dahlias, known as the Juarezi .....                                     | 10c      |

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

- |  | PER PKT. |
|--|----------|
| 233 <b>Arborea</b> (Brugmansia). Large single trumpet-shaped, white, fragrant flowers, about 12 inches long; plant out in May .....  | 10c      |
| 234 <b>Cornucopia</b> ("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      |
| 235 <b>Double Golden.</b> Large double flowers, of a deep golden-yellow; delightfully fragrant .....   | 5c       |
| 236 <b>Fatoua Huberiana.</b> Large double flowers of various colors .....  | 5c       |



Double Dahlias.

**DELPHINIUM**

(Perennial Larkspur). One of our most showy and useful plants, possessing almost every requisite for the adornment of the garden; producing splendid spikes of flowers in profusion throughout the summer. If sown early they will bloom the first year from seed. Hardy perennials.

- |  | PER PKT. |
|--|----------|
| 237 <b>Cardinale.</b> Splendid scarlet, very fine. 4 feet .....  | 10c      |
| 238 <b>Chinense.</b> 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      |
| 239 <b>Elatum</b> (Bee Larkspur). Rich deep blue, very free blooming. 4 feet .....   | 5c       |
| 240 <b>Formosum.</b> Beautiful spikes of brilliant rich blue flowers, with a white center. 2½ feet .....   | 5c       |
| 241 <b>Grandiflorum Fl. Pl.</b> Finest double, mixed in great variety of charming colors; 2 feet .....   | 10c pkt. |
| 242 <b>Nudicaule.</b> Dwarf, compact growth, with spikes of bright scarlet flowers; 18 inches .....  | 10c pkt. |
| 243 <b>Zalil.</b> A lovely shade of sulphur yellow, 4 ft. 10c pkt.   |          |



Datura Cornucopia.

**DIANTHUS OR PINKS.**—A magnificent genus, embracing some of the most popular flowers in cultivation, 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 very fragrant and of easy culture for the garden or greenhouse.

**DOUBLE ANNUAL VARIETIES.**

- |   | PER PKT.       |
|---|----------------|
| 244 <b>Chinensis Fl. Pl.</b> (Chinese Pink). Double finest mixed .....                                    | oz. 30c, 5c    |
| 245 <b>Heddewigii Fl. Pl.</b> (Japan Pink). Very large flowers .....                                      | oz. 60c, 5c    |
| 246 <b>Heddewigii Albus Fl. Pl.</b> Double white, fringed flowers, very fine .....                        | oz. \$1.00, 5c |
| 247 <b>Heddewigii Atropurpurea Fl. Pl.</b> Double blood red .....   | oz. \$1.00, 5c |
| 248 <b>Diadematus Fl. Pl.</b> (Diadem Pink). Beautiful large double flowers, splendid variety .....       | oz. 75c, 5c    |
| 249 <b>Imperialis Fl. Pl.</b> (Double Imperial Pink). A very pretty variety, beautifully variegated ..... | oz. 60c, 5c    |
| 250 <b>Laciniatus Fl. Pl.</b> Large double flowers, with fringed edges and beautifully striped .....      | oz. \$1.00, 5c |
| 251 <b>Mourning Cloak.</b> Double purple, margined with white; very fine .....                            | oz. 75c, 5c    |

**SINGLE ANNUAL VARIETIES.**

- |   | PER PKT.       |
|---|----------------|
| 252 <b>Crimson Belle.</b> Of largest size, dark crimson .....   | oz. \$1.00, 5c |
| 253 <b>Eastern Queen.</b> Beautifully marbled with light and dark mauve .....   | 5c             |
| 254 <b>The Bride</b> (Little Gem). Large single, white, purple center, very pretty .....  | oz. \$1.00, 5c |
| 255 <b>Laciniatus.</b> A beautiful single-fringed variety, two to three inches in diameter. Mixed colors .....  | 5c             |
| 256 <b>Laciniatus, Nanus Hybrids.</b> Very showy, with fringed petals, distinguished by a dark ring around the centers of flowers; a charming novelty ..... | 10c            |



Dianthus Chinensis.





Dianthus Heddeiwigii.

- DIANTHUS.**—**HARDY PERENNIAL VARIETIES.** These hardy varieties are well adapted for beds and borders, delightfully sweet-scented; should be in every garden where cut flowers are wanted. PER PKT.
- 257 **New Perpetual.** Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. .... 20c
  - 258 **Oriental Beauties.** A magnificent strain of new large-flowering Dianthus. 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
  - 259 **Plumarius (Pheasant's-eye).** A beautiful, single hardy pink, with fringed-edged white flowers, with a dark center ..... 5c
  - 260 **Plumarius Fl. Pl.** Double and semi-double varieties in beautiful colors ..... 10c

- DIGITALIS**—(Foxglove). A handsome and highly ornamental hardy perennial plant, of stately growth, fine for shrubberies and half-shady places; 3 feet. PER PKT.
- 261 **Gloxinaeflora.** Gloxinia-shaped flowers; a lovely type; all colors mixed ..... 5c
  - 262 **Ivery's Spotted.** A splendid strain, containing all the best shades of color and exquisite markings ..... 5c
  - 263 **Monstrosa.** Long spike of many flowers surmounted with one enormous flower ..... 5c
  - 264 **Purpurea Finest Mixed.** Splendid for mixed borders ..... 5c

**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.

- PER PKT.
- 265 **Daylight.** One of the prettiest climbers; of very rapid growth. Will grow to a height of 15 feet by mid-summer. 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
  - 266 **Mixed.** Purple and white ..... oz. 15c, 5c

**DRACAENA.**—Ornamental plants with long, graceful foliage, extensively used in vases and for house decoration. Tender perennial.

- 267 **Finest Mixed.** Including the best sorts ..... 15c pkt
- 268 **Indivisa.** Narrow, dark green foliage ..... 10c pkt

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

**ECHEVERIA.**—Interesting greenhouse succulents, with racemes of scarlet and yellow flowers. They are also largely used for carpet bedding. Half-hardy perennials.

- 269 **Secunda Glauca.** Small compact-growing variety, free-flowering, scarlet and yellow racemes of bloom. Fine ..... 25c pkt.

- ESCHSCHOLTZIA**—(California Poppy). A showy and profuse-flowering variety of plants, with rich, beautiful colors. Delight in a rich soil. Very attractive for beds, edging, or massing. Hardy annuals; 1 foot. PER PKT.
- 270 **Californica.** Bright yellow, with orange center ..... oz. 30c, 5c
  - 271 **Golden West.** The flowers of this grand new variety measure from 3 to 6 inches in diameter; they have very large, overlapping petals, often daintily waved at the edges. They are of various forms, some flat, some cup-shaped, others very deep with flaring edges. They are of a light canary-yellow color with an orange blotch at the base of the petals, which blotch often suffuses almost the whole flower ..... 5c
  - 272 **Finest Mixed.** All colors ..... oz. 20c, 5c pkt.



Eschscholtzia Californica.

**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. PER PKT.

- 273 **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
- 274 **Variegata ("Snow on the Mountain").** A hardy, showy border plant, with foliage veined and margined with white. Very attractive; 1½ ft. Hardy annual ..... 5c

**FEVERFEW.**—(See Pyrethrum.)

**FORGET-ME-NOT.**—(See Myosotis.)

**FOXGLOVE.**—(See Digitalis.)

**FERNS.**—These ornamental plants are too well known to need any description. Sow in spring, in shallow boxes, lightly covering the seed with soil. Keep moist with a covering of fine moss, and in a temperature of 60 degrees.



Euphorbia Heterophylla.

- 275 **Choicest Varieties.** Mixed ..... 15c pkt.



Gaillardia Lorenziana.

**GERANIUM.** — Although perennials, they will produce nice bushy plants and flower 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.



- 283 **Apple Scented.** Leaves delightfully fragrant; highly prized for bouquets. 15c
- 284 **Lady Washington Geranium.** Grand plants for pot culture; the flowers, an inch or more across, are borne in immense clusters through spring and summer; colors are rich in the extreme, and beautifully marked. 25c
- 285 **Zonale Large Flowering, Mixed.** From new varieties. 10c



Gaillardia Dwarf.



Gomphrena.

**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.

289. **Leontopodium.** White. 10c pkt.

**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.

290 **Fine Mixed.** 5c pkt.

**FUCHSIA.** — A well-known plant of easy culture, for the house or shady situations in the garden; the seed we offer is saved from the finest single and double named varieties.

PER PKT.  
276 **Mixed.** 15c  
277 **Procumbens.** Fine for hanging baskets; flowering through the winter. 15c

**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.

PER PKT.  
278 **Picta Lorenziana.** A charming profuse double-flowering strain; beautiful mixed colors. 5c  
279 **Finest Mixed.** All colors. 5c  
280 **Grandiflora Superba.** Splendid new perennial varieties with large flowers, dark crimson centers, marked with rings of many brilliant colors. 10c  
281 **James Kelway.** The most beautiful variety grown; immense flowers, often 5½ inches across, of dazzling crimson scarlet, with narrow gold edge. Hardy perennial variety, flowering abundantly until frost. A grand garden plant; 2 feet. 10c

**GENISTA.**

282 **Canariense.** Handsome plants for room decoration, with bright yellow flowers; grown in five or 6-inch pots they make fine specimens. Tender perennial. 10c pkt.



Gaillardia, James Kelway.

**GILIA.** — Very pretty tall and dwarf varieties. Will bloom in any situation. Also grows well in pots, and may be planted in rockeries and used for massing. Hardy annual.

PER PKT.  
286 **Tall Mixed.** All colors and varieties. oz. 30c, 5c  
287 **Dwarf Mixed.** All colors and varieties. oz. 30c, 5c

**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, a warm, moist atmosphere. 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.



Gloxinia.

**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.



Godetia Lady Albemarle.

**GODETIA.**—An attractive hardy annual, deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors; 1½ feet. PER PKT.  
 291 *Duchess of Albany.* Beautiful, large flowers, of rich satiny-white 5c  
 292 *Lady Albemarle.* Carmine-crimson. Compact habit. Very beautiful 5c  
 293 *Finest Mixed* oz. 30c, 5c

**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. PER PKT.  
 294 *Briza Maxima* (Large Quaking Grass). A beautiful variety. Hardy annual; 1 foot 5c  
 295 *Bromus Briziformis.* A graceful variety, with drooping panicles. Hardy perennial, flowering the first season; 1 ft. 5c  
 296 *Coix Lachryma* (Job's Tears). Broad, corn-like leaves, and hard, shining, pearly seeds, resembling tears; 2 feet 5c  
 297 *Erianthus Ravenæ.* A hardy perennial, noble grass, with exquisite white plumes. Flowers the first season if sown very early; 10 feet. 5c  
 298 *Eulalia Japonica.* One of the most beautiful of the tall-growing grasses; 5 feet; hardy 5c  
 299 *Gynerium Argentum* (Pampas Grass). The finest ornamental grass in cultivation. Half-hardy perennial; 10 feet. 5c  
 300 *Pennisetum Ruppelianum.* Beautiful and graceful spikes of purple; whether for border decoration or for bouquets this is one of the best; 2½ feet 10c

301 *Stipa Pennata* (Feather Grass). A hardy perennial; flowers the second season from seed; 2 feet 5c  
 302 *Finest Mixed.* Used for making winter bouquets 5c

**GOURDS.**—A tribe of climbers with curiously-shaped fruit, in various colors. Being of rapid growth, they are fine to cover old fences, trellises, stumps, etc. The foliage is quite 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. PER PKT.

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



Gourds.

312 **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

**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.

313 *Paniculata.* White, fine for bouquets 5c pkt.

**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.

314 *Californica.* Very large, double orange flowers. 7 feet oz. 20c, 5c pkt.  
 315 *Chrysanthemum-Flowered.* An excellent plant for the lawn, shrubberies or any other place where color effect is desired. The plants grow 6 to 7 feet high and produce a great number of double flowers of various sizes. On account of their size, long stems and color the flowers are extremely well adapted for vases oz. 25c, 5c pkt.  
 316 *Cucumerifolius Stella* (Miniature).—Large single, golden yellow, with dark center; handsomely formed; freely produced on long stems; excellent for cutting oz. 25c, 5c pkt.



Helianthus Cucumerifolius.

317 *Globosus Fistulosus* (Dahlia Sunflower).—Flowers large, double, of a rich saffron color. 6 feet. oz. 25c, 5c pkt.  
 318 *Mammoth Russian.* Extra large flowers, with an abundance of seed. oz. 10c, 5c pkt.  
 319 *Multiflorus.* Large double golden-yellow flowers, forming a magnificent ball, 4 feet 5c pkt.  
 320 *Nanus Fl. Pl.* (Globe of Gold). Dwarf double orange flowers, 4 feet. oz. 25c, 5c pkt.  
 321 *Perkeo.* A charming dwarf variety of the Miniature Sunflower. 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. 10c pkt.  
 322 *Silverleaf.* Silvery foliage, and small single, golden-yellow flowers, with jet-black center oz. 30c, 5c pkt.  
 323 *Finest Double Varieties, Mixed* oz. 20c, 5c pkt.



Helianthus.

**HEDYSARUM** (French Honeysuckle).—A free-growing, showy border plant, of easy culture. Bears attractive pea-shaped flowers. Hardy biennial.

- 324 Red and White Mixed..... 5c pkt.

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

- 325 Double. White, red, and yellow, mixed..... 5c pkt.

**HELIOTROPE**.—A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a most 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.

- 326 Lemoine's Giant. Of robust growth and producing heads of flowers double the size of the old sort..... 10c  
 327 Snowball. Beautiful white, large flowers ..... 10c  
 328 Finest Mixed. All colors ..... 5c



Heliotrope.

329 **HELIPTERUM SANFORDI**.—A very pretty border annual of dwarf habit, bearing large globular clusters of bright golden-yellow everlasting flowers. 1 foot ..... 5c pkt.



Heuchera.

330 **HEUCHERA**.—*Sanguinea Splendens Hybrid*—One of the finest hardy perennials. The flowers are of a rich bright crimson color; the leaves light green and slightly hairy. Excellent for cutting..... 10c pkt

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

- 331 **Hibiscus Africanus**. Large, cream-colored flowers, with a brown center; hardy annual. 1½ feet ..... 5c  
 332 **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  
 333 **Giant Golden Bowl**. A shrubby perennial, cup-shaped flowers from 6 to 9 inches in diameter. The color is a rich deep cream with a velvety maroon center. The plants commence to bloom early and continuously until cut down by frost. The seed should be started indoors and set out as soon as the weather is warm ..... 10c

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

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

**HOLLYHOCK**.—Few hardy plants combine as many good qualities, or lend themselves as readily to varied uses, as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among the shrubbery, they are invaluable. The flowers form perfect rosettes of the most lovely colors. It is not sur-

prising that this old favorite should again become popular; for, by careful selection, the flowers have been so much improved that they are marvels of beauty and elegance. 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 these we offer is saved from the very best double flowers of pure and bright colors. Seeds sown during the summer make strong blooming plants for the following year.

- 335 **Mammoth Fringed Allegheny**. Mammoth flowers, wonderfully formed of loosely arranged fringed petals, which look as if made from the finest China silk, and have none of the formality of the ordinary type. 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.  
 336 **Chater's Prize, Double Mixed**. This strain stands unrivalled in richness and delicacy of coloring, with magnificent spikes of very double flowers..... 10c pkt.  
 337 **Double Crimson** ..... 10c pkt. | 340 **Double White** ..... 10c pkt.  
 338 **Double Pink** ..... 10c pkt. | 341 **Double Yellow** ..... 10c pkt.  
 339 **Double Scarlet** ..... 10c pkt. | 342 **Finest Mixed**. All colors.. 5c pkt.



Hollyhock.

343 **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 plant 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.

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

**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.



Humulus Japonicus Variegatus.

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

- 345 Japonicus (Japan Hop). Green foliage; 20 ft. .... 5c pkt.
- 346 Japonicus Variegatus. A variegated variety of the Japanese Hop. The leaves are beautifully and distinctly marked with silvery-white, yellowish white and light and dark green. 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.

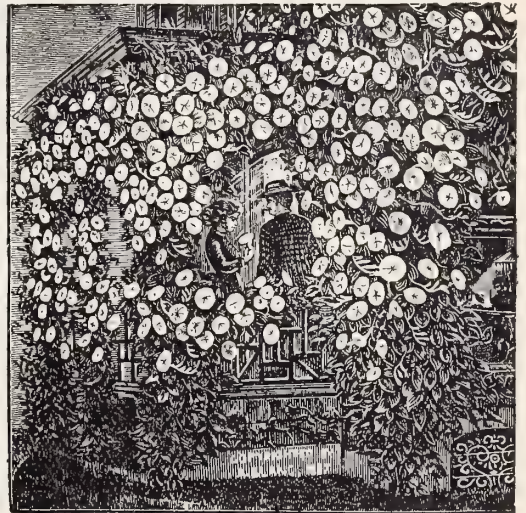
**INDIAN SHOT**—(See Canna).

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

- 347 Sultana Hybrida. Beautiful hybrids. Varying shades of color, from delicate pink to the deepest red ..... 15c pkt.

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

- 348 Coccinea (Star Ipomea). Scarlet star-shaped flowers ..... 5c pkt.



Cross Bred or Hybrid Moon Flower.

- 349 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 ..... 5c
- Strong plants, 20c each; \$2.00 doz. By mail, 25c each.
- 350 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 ..... 10c
- 351 Mixed. All colors ..... 5c



Lantana.

**IRIS KAEMPFERI**.—An excellent addition to our hardy perennial plants. Flowers large, six to eight inches in diameter, and quite distinct from all other varieties. .... 5c

- 352 Double and Single. Mixed colors. .... 5c

**JACOBÆA** (Senecio).—A showy free-flowering hardy annual. It produces in great profusion branching spikes of Cineraria-like double flowers, 1½ inches in diameter, from spring until fall, and will bloom all winter in a cool greenhouse. Excellent for bouquets.

- 353 New Pompon. Finest Mixed ..... 5c pkt.

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

- 354 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.

- 355 Finest Mixed. All colors. .... 10c pkt.

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

- 356 Dwarf Rocket. Finest mixed, double; 1 foot ..... 5c
- 357 Tall Rocket. Finest mixed, double; 2½ feet ..... 5c
- 358 Double Stock-flowered. Fine for bedding. Choice mixed .. 5c

(For Perennial Larkspur, see Delphinium.)

**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.

- 359 Barnard's Perpetual. Deep blue with white eye; very fine. .... 10c
- 360 Crystal Palace Compacta. Rich blue; finest for bedding. .... 10c
- 361 Gracilis. Pale blue, trailing; fine for vases. .... 5c
- 362 Royal Purple. Deep blue, with white eye and dark stalks. .... 10c
- 363 Speciosa. Dark blue, trailing; fine for vases ..... 5c
- 364 White Gem. Pure white and very beautiful ..... 10c
- 365 Dwarf Mixed Varieties. For borders ..... 5c
- 366 Cardinalis Hybrids. Splendid hybrids mixed; highly recommended. Hardy perennial; 2 feet, ..... 10c
- 367 Cardinalis Queen Victoria. Brilliant scarlet; very dark leaves; splendid hardy perennial; 2 feet ..... 10c

**REDUCED EXPRESS RATES**.—By special arrangements with the Express lines in the United States and Canada, in the traffic agreement, Seeds, Bulbs and Plants are now carried at a reduced rate of 20 per cent. less than merchandise rates when guaranteed by us.

Our customers will therefore find these reduced Express rates almost as cheap as freight on small quantities.



Lobelia, Crystal Palace Compacta.



Marigold—"Legion of Honor."

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.

- 376 African El Dorado. Flowers very large, imbricated and extreme y double; colors all shades of yellow. 3 feet..... 40 5c
- 377 African Lemon. Large, double, lemon color. 3 feet..... 40 5c
- 378 African Orange. Large, double, orange color. 3 feet..... 40 5c
- 379 French Scotch Prize. A fine strain, with admirably striped double flowers. 1 ft..... 5c
- 380 French Legion of Honor. Single dwarf Marigold, forming compact bushes. Flowers golden yellow and brown; blossoms in great profusion..... 5c



Marvel of Peru.

approach of frost. A half-hardy perennial, flowering the first season if sown early.

- 385 Barclayana. Deep violet; fine. 10 feet..... 10c
- 386 Finest Mixed. All colors. 10 feet..... 10c

**MIGNONETTE** (*Reseda Odorata*) A well known hardy annual, producing dense semi-globular heads of exceedingly 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.

- 387 Grandiflora. Large-flowering, fragrant..... 15 5c
- 388 Allen's Defiance. One of the finest sorts; enormous spikes, with individual florets of immense size; very fragrant; excellent for forcing..... 75 10c
- 389 Crimson Giant. Large spikes of crimson flowers; fragrant. 5c
- 390 Gabriele. Hardy and vigorous growth, with strong, large red spikes, of delicious fragrance..... 5c
- 391 Machet. Dwarf pyramidal growth, with very large thick spikes, deliciously fragrant; one of the best for forcing 75 10c
- 392 Machet, Golden. Thick massive spikes of golden yellow fragrant flowers..... 10c
- 393 Miles Spiral. Dwarf branching habit, with long spikes, fragrant, excellent for market purposes..... 30 5c

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

- 368 Splendens. Large deep crimson flowers..... PER PKT. 10c
- 369 Fine Mixed..... 5c

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

- 370 Lavendula. 1½ feet..... 5c

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

- 371 Annual Varieties. Mixed colors. 3 feet..... 5c
- 372 Perennial Varieties. Mixed colors. 3 to 4 feet..... 5c

**LYCHNIS.**— Handsome plants of easy culture; for massing in beds and borders, blooming the first year if sown early; hardy perennials. 2 feet. PER PKT.

- 373 Chalcedonica. The scarlet Lychnis, an old garden favorite very hardy. 3 to 4 feet..... 5c
- 374 Haageana Hybrids, Mixed Colors. Dwarf bushy habit, bearing flowers an inch or more across in continuous succession until frost. 1 foot..... 10c

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

- 375 Roseum Superbum..... 5c pkt.

**MARIGOLD.**

A well-known half-hardy annual of easy culture, with rich and beautiful varied colors. OZ. PKT.



Marigold El Dorado.

**MARVEL OF PERU.**—

The well-known Four o'clocks. A handsome free-flowering garden favorite; half-hardy perennial; blooming the first season from seed.

- 381 Finest Mixed. Beautiful colors. 2 ft., oz 15c., 5c pkt

**MATHIOLA** (*Evening Scented Stock*.) PER PKT

- 382 Bicornis. Pink and lilac flowers. The delicious rich perfume emitted by the flowers in the afternoon and evening is delightful. Hardy annual. 1 foot..... 5c

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

- 383 Golden Ball. Rich golden yellow, quilled. 1 foot..... 10c pkt.
- 384 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



Mignonette Machet.

OZ. PKT.

**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 slightest touch. Half-hardy annual. 1½ feet.

391 *Pudica*. Sensitive plant..... 5c pkt.

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

395 *Moschatus*. (Musk Plant.) Yellow, very fragrant. 1½ foot..... 10c pkt.

396 *Tigrinus Grandiflorus*. Beautiful, large flowered, tigered and spotted varieties, 10c "

397 **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.

398 *Balsamina*. (Balsam Apple).....5c pkt.

399 *Charantia*. (Balsam Pear).....5c pkt.



Momordica Charantia.



Forget-Me-Not.

**MUSA.**—One of the finest Bananas for planting out during the summer. The leaves are long and broad, with crimson mid-rib. Thrives best in a rich soil, requiring plenty of room and moisture. Tender perennial.

400 *Ensete*. (Abyssinian Banana.) 10 to 20 feet.....25c pkt.

**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.

401 *Alpestris Victoria*. Of bushy habit, bearing large bright azure-blue flowers: very fine 10c pkt.

402 *Dissitiflora*. Compact habit, profuse bloomer; exquisite blue; an attractive spring bedding plant. 6 inches..... 10c pkt.

403 *Palustris*. The true Forget-Me-Not; beautiful blue flowers; 6 inches..... 10c pkt.

404 *Palustris Semperflorans*. A charming dwarf Forget-Me-Not continuing in bloom from early spring until autumn, blue, 8 inches..... 10c pkt.

405 *Robusta Grandiflora*. Large-flowering, pyramidal habit, centre flowers are double, remarkably fine.....10c pkt.

**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. PER PKT.

406 *Affinis*. White, very fragrant. 2 to 3 ft..... 5c

407 *Colossea*. Reddish-foliage, changing to dark glossy green, with reddish ribs, 5 to 6 feet.....10c

**NIGELLA.**—(Love in a Mist.) Free flowering and compact growing plants, with curious-looking flowers and seed pods. Hardy annual.

408 *Fine Mixed*. ¾ ft.....5c pkt.

**NYCTERENIA.**—Neat plants, with large heads of sweet-scented star-shaped flowers, produced through the whole season. Hardy annual.

409 *Capensis*. White, yellow centre. ½ ft.....5c pkt.

**OENOTHERA.**—Large, showy blossoms, opening toward evening. Free-growing and useful plant. Hardy biennial.

410 *Biennis* (True Evening Primrose.) A beautiful and free-flowering plant, with long spikes of bright yellow flowers...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, PER PKT.

411 *Alba*. White.....10c

412 *Rosea*. Rose-colored flowers.....10c

413 *Tropaeoloides*. Flowers, deep yellow, foliage dark brown...10c

414 *Mixed*. Finest varieties.....10c

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

**MOON FLOWER.**—(See Ipomea.)

**MORNING GLORY.**—(See Convolvulus.)

**MOURNING BRIDE.**—(See Scabiosa.)

**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.



Nicotiana Affinis.



## 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.

415 <b>Aurora.</b> Chrome-yellow, spotted and striped with deep crimson .....	15c	5c
416 <b>Beauty.</b> Yellow-striped red .....	15c	5c
417 <b>Chameleon.</b> This interesting variety produces flowers of different colors on the same plant. The contrast produced by the numerous blooms, each so conspicuously different is charming ..	20c	5c
418 <b>Crystal Palace Gem.</b> Sulphur, spotted maroon, ..	15c	5c
419 <b>Empress of India.</b> Splendid variety, brilliant crimson with dark foliage .....	15c	5c
420 <b>Golden King.</b> Brilliant yellow .....	15c	5c
421 <b>King of Tom Thumbs.</b> Intense deep scarlet flowers, dark foliage .....	15c	5c
422 <b>King Theodore.</b> Dark maroon, bluish-green foliage. One of the best .....	15c	5c
423 <b>Lady Bird.</b> Rich golden yellow, barred with bright ruby crimson .....	15c	5c

424 <b>Luteum.</b> Fine yellow .....	15c	5c
425 <b>Pearl.</b> Creamy white .....	15c	5c
426 <b>Prince Henry.</b> Golden yellow, marbled and spotted with brilliant scarlet .....	15c	5c
427 <b>Rose.</b> Light rose, splendid color .....	15c	5c
428 <b>Ruby King.</b> Brilliant crimson rose .....	15c	5c
4.9 <b>Spotted King.</b> Orange, spotted crimson .....	15c	5c
430 <b>Vesuvius.</b> Brilliant salmon pink .....	15c	5c
431 <b>McCullough's Premier Mixed.</b> A mixture from finest named varieties .....	40c	1/4 lb., 15c
432 <b>Fine Mixed.</b> All colors .....	30c	1/4 lb., 10c

### PREMIER COLLECTIONS.

- 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.

433 <b>Chameleon.</b> This interesting variety produces flowers of different colors on the same plant. The contrast produced by the numerous blooms, each so conspicuously different is charming ..	15c	5c
434 <b>Crimson.</b> Deep rich color .....	15c	5c
435 <b>Heinemann.</b> Chocolate color .....	15c	5c
436 <b>King Theodore.</b> Rich dark maroon, dark leaves ..	15c	5c
437 <b>Luteum.</b> Fine yellow .....	15c	5c
438 <b>Orange.</b> Orange red, fine color .....	15c	5c
439 <b>Pearl.</b> Creamy white .....	15c	5c
440 <b>Prince Henry.</b> Light yellow, marbled and striped with bright scarlet .....	15c	5c

441 <b>Rose.</b> A fine shade, very attractive .....	15c	5c
442 <b>Scarlet.</b> Brilliant scarlet, fine .....	15c	5c
443 <b>Spotted.</b> Scarlet, spotted .....	15c	5c
444 <b>Vesuvius.</b> Brilliant Salmon rose, dark leaves; extra large flowers .....	15c	5c
445 <b>McCullough's Premier Mixed.</b> A mixture from finest named varieties .....	40c	1/4 lb., 15c
446 <b>Fine Mixed.</b> All colors .....	30c	1/4 lb., 10c

### PREMIER COLLECTIONS.

- C. Tall Nasturtium, 12 varieties .....
- D. Tall Nasturtium, 12 varieties .....

**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.

447 <b>Asa Gray.</b> The lightest color yet obtained; sulphur yellow, very delicate .....	20c	5c
448 <b>Geant des Batailles.</b> Sulphur spotted red. ....	20c	5c
449 <b>Lucifer.</b> Very dark scarlet, splendid .....	20c	5c
450 <b>Margaret.</b> Light yellow, with blood red spots and spurs .....	30c	5c
451 <b>Napoleon III.</b> Golden yellow, spotted with brown .....	20c	5c
452 <b>Roi des Noirs.</b> Black brown .....	20c	5c
453 <b>McCullough's Premier Mixed.</b> .....	40c	1/4 lb., 15c

454 <b>Nasturtium, Madame Gunther's Hybrids.</b> A new climbing strain. For richness and variety of colors these new hybrids have no equals among Nasturtiums. There are shades of rose, salmon, brightest red, pale yellow, either as self colors or spotted and striped. The foliage is mostly dark and contrasts very effectively with the rich colors, and are free and continuous bloomers, 15c oz., 5c		
455 <b>Lilliput or Miniature.</b> 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	oz., 5c

### PREMIER COLLECTIONS.

- F. Lobbianum Nasturtium, 6 varieties .....
- G. Lobbianum Nasturtium, 6 varieties .....





Pansy Bugnot's Exhibition.

**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. PER PKT.

- 456 **Bugnot's Superb Blotched.** A celebrated French strain of extra large size, choicest colors, and with beautiful broad blotches and delicate pencillings. The flowers are perfect in form and color. Finest mixed ..... 25c
- 457 **Cassier's Giant.** A very showy and rich strain saved from very large and beautifully blotched model flowers ..... 25c
- 458 **Masterpiece.** The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers are waved or curled. The flowers are perfectly round and contains the richest combination of colors, that have ever been offered in a five spotted Pansy. Each petal is distinctly marked with a very large dark blotch and most of the flowers are margined with a light, white or yellow edge. 25c
- 459 **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. 25c

- 460 **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 if cultivated properly 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
- 461 **McCullough's Special Mixture.** A superior mixture, selected from choice, large flowering strains of English, French and German growers ..... Oz. \$5.00, 15c

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

- |   |          |
|---|----------|
|   | PER PKT. |
| 462 <b>Adonis.</b> Beautiful, light blue, marked with a yellowish white face and large dark blotches ..                               | 10c      |
| 463 <b>Auriculaeflora.</b> Large flowers of rare shades ..  | 10c      |
| 464 <b>Bridesmaid.</b> White shining rose, beautifully blotched ..  | 15c      |
| 465 <b>Canary Bird.</b> A giant five spotted variety. Bright golden yellow, each petal marked with a large dark blotch. Extra fine .. | 20c      |
| 466 <b>Candidissima.</b> Satiny white, centre slightly tinged with yellow ..  | 10c      |
| 467 <b>Emperor William.</b> Ultramarine blue, with distinct dark blue eye ..  | 10c      |
| 468 <b>Golden Yellow.</b> Bright yellow. Extra fine ..  | 10c      |

- 469 **King of the Blacks.** Immense jet-black flowers .. 10c
  - 470 **Lord Beaconsfield.** Purple violet, shading to white on the upper petals ..... 10c
  - 471 **Peacock.** Rich blue, margined with a white edge, and marked in the face with rosy carmine tints 15c
  - 472 **Quadricolor.** Reddish blue, with white and pink edges; lower petals yellow marbled with red and blue, margined with white ..... 15c
  - 473 **Ruby.** Brilliant shades of red ..... 15c
  - 474 **Finest Mixed.** All colors. Extra fine .. Oz. \$2.50, 10c
- PREMIER COLLECTION—No. 1, Giant Trimardeau Pansies,** our selection, six varieties, one pkt. of each ..... 45c
- PREMIER COLLECTION—No. 2, Giant Trimardeau Pansies,** twelve varieties, one pkt. of each ..... 80c

**PANSIES IN SEPARATE COLORS.**

- |   |      |      |
|---|------|------|
|   | OZ.  | PKT. |
| 475 <b>Cardinal.</b> Brownish-scarlet, lower petals marked with a large dark blotch ..                        | 2.00 | 10c  |
| 476 <b>Emperor Frederick.</b> Rich purple; golden bronze centre; margined scarlet and yellow ..               | 2.00 | 10c  |
| 477 <b>Emperor William.</b> Brilliant ultramarine blue, with violet eye ..                                    | 1.50 | 10c  |
| 478 <b>Golden Yellow.</b> Golden yellow with black centre ..  | 1.50 | 10c  |
| 479 <b>King of the Blacks.</b> Rich glossy black; splendid for bedding ..                                     | 1.50 | 10c  |
| 480 <b>Lord Beaconsfield.</b> Purple violet, shading to white on the upper petals ..                          | 1.50 | 10c  |
| 481 <b>Peacock.</b> Upper petals a beautiful ultramarine blue; lower petals deep claret with white margins .. | 2.00 | 10c  |
| 482 <b>President Carnot.</b> White petals marked with violet blotch. Extra fine ..                            | 4.00 | 20c  |
| 483 <b>Quadricolor.</b> Reddish steel blue with a white and pink edge, marked with a golden and pink face ..  | 1.50 | 10c  |
| 484 <b>Snowflake.</b> Large satin white, centre slightly tinged with yellow ..                                | 1.50 | 10c  |
| 485 <b>Striped.</b> Brilliant and exquisite tints in coloring; the blooms handsomely striped ..               | 1.50 | 10c  |
| 486 <b>Victoria.</b> Rich velvet like petals of a bright wine or blood red color ..                           | 2.50 | 10c  |
| 487 <b>Superior Quality Mixed.</b> A splendid strain of large-flowering sorts ..                              | 1.50 | 10c  |
| 488 <b>Very Fine Mixture.</b> Fine, showy flowers ..  | 1.00 | 5c   |
| <b>No. 3, Collection Pansies.</b> Our selection, 6 varieties, one pkt. of each ..                             |      | 30c  |
| <b>No. 4 Collection Pansies.</b> Our selection, 12 varieties, one pkt. of each ..                             |      | 50c  |

**PARIS DAISY.**—(See Chrysanthemum Frutescens.)



Improved Trimardeau Giant.



**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 ft.

- DRUMMONDII GRANDIFLORA.**—Large-flowering varieties. An improvement on the old varieties in more compact growth and larger flowers. PER PKT.
- 490 Alba. Large, pure white.....10c
  - 491 Alba Oculata. Pure white, with claret eye.....10c
  - 492 Atropurpurea. Deep purple.....10c
  - 493 Brilliant. Beautiful rose color.....10c
  - 494 Coccinea. Brilliant Scarlet.....10c
  - 495 Coccinea Striata. Scarlet striped.....10c
  - 496 Kermesina Splendens. Vivid crimson, very bright and effective.....10c
  - 497 Stellata Splendens. Vivid crimson, with white star in the centre, very beautiful.....10c
  - 498 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. ....7c oz., 10c

**Premier Collection Phlox Drummondii Grandiflora.**— Eight varieties.....1 pkt. of each 40 cts.  
 499 Drummondii. They produce trusses of brilliant flowers of numberless hues. Finest mixed.....5c oz., 5c pkt.

- PHLOX DRUMMONDII NANA.**—This strain is of dwarf compact habit, and makes desirable pot plants, also for ribbon lines and massing; 6 inches in height. PER PKT.
- 500 Fireball. Brilliant Scarlet.....10c
  - 501 Snowball. Pure white, excellent variety.....10c
  - 502 Finest Mixed. All colors.....10c

- 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. PER PKT.
- 503 Alba. Double white; very fine for bouquets and florists use....10c
  - 504 Atropurpurea. Double, blood red.....10c
  - 505 Phlox Cuspidata (Star of Quedlinburg) Finest Mixed. Beautiful star-shaped flowers in snowy colors.....\$1.20 oz., 1c pkt.
  - 506 Phlox Fimbriata, Finest Mixed. A fine strain, with petals beautifully fringed; distinct and fine.....\$1.20 oz., 10c pkt.



Phlox Drummondii Nana.

507 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

**PETUNIA.**— For out-door decoration 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.**
- 508 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.
  - 509 Giants of California. Flowers very large, in great variety of colors and markings, with broad, deep yellow throats, veined.....15c pkt.
  - 510 Ruffled Giants. New; 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.



Petunia. McCullough's Mammoth.

511 Grandiflora, Finest Mixed. Superb strain from show flowers, very large and of great substance..... 15c pkt.

PETUNIAS.—(Continued )



Double Hybrid Petunia.

SINGLE SMALL-FLOWERED VARIETIES.

	oz.	PKT.
512 Dwarf Inimitable. Compact-growing variety, flowers cherry-red, striped with white	\$3.00	10c
513 Snowball. A fine compact variety, forming bushes about 8 inches high and producing its pure white flowers throughout the entire season. A splendid sort for pots or for bedding	3.50	10c
514 Alba. Pure white large flowers, desirable for cemetery beds or where large masses of white are wanted	1.00	10c
515 Kermesina Splendens Rich crim-son, fine	1.00	10c
516 New Star. A free-growing and very profuse-blooming strain. The ground color is dark crimson maroon on which is a beautiful five-pointed star varying from blush to pure white in color and extending from the center to the margin of the flower		10c
517 Striped and Blotched Mixed. All colors	1.00	10c
518 Finest Mixed. Superb strain, very rich colors	1.00	10c
519 Fine Mixed. Very fine quality	.60	5c

DOUBLE LARGE-FLOWERING SORTS.

	PER PKT.
520 Lady of the Lake. Pure white double fringed, large-flowering	35c
521 McCullough's Splendid Fringed. One of the finest strains in existence. The double flowers are very large, full, and beautifully formed, having the edges of the petals elegantly fringed	35c
522 Grandiflora Mixed. 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.

	PER PKT.
523 American Flag. Large double flowers, white, bordered with scarlet. 2 feet	oz. 30c, 5c
524 Cardinal Hybrids. Habit erect and compact, with deeply-cut dark green foliage, which shows off the enormous double flowers. Finest mixed. 1½ foot	10c
525 Carnation-Flowered. Large showy fringed flowers; mixed colors	oz. 20c, 5c
526 Fairy Blush. Flowers large, white, elegantly fringed and tipped with rose	5c
527 Golden Gate. Exceedingly free-flowering variety of semi-double and double flowers in the greatest variety of color	5c
528 Irresistible. A splendid giant Poppy, resembling a pæony. Color light red, shaded lighter at edge of petals	10c
529 Japanese Pompon. Small, beautiful flowers in a great variety of color. 1 foot	5c
530 Mikado. The flowers are pure white at back, the fringed edges brilliant scarlet	oz. 40c, 5c
531 Pæony-Flowered. Large showy globular flowers; finest mixed	oz. 20c, 5c
532 Pæony-Flowered Scarlet. Fine large scarlet flowers.	5c
533 White Swan. Immense flowers, beautifully fringed; pure white	5c
534 Double Mixed. All colors, mixed	oz. 20c, 5c

SINGLE ANNUAL VARIETIES.

	PER PKT.
535 Danebrog. Large bright scarlet, with a white cross in the center	oz. 25c, 5c
536 Maid of the Mist. A magnificent single white poppy. The flowers measure from 7 to 9 inches across and are deeply fringed	10c



Tulip Poppy.

	PER PKT.
537 Peacock. Large scarlet, with a glossy black zone near the center	oz. 30c, 5c
538 Shirley. A beautiful strain; the flowers are all gracefully elegant, and the colors remarkably bright, pure and varied	oz. 50c, 5c
539 The Bride. The flowers are of extra large size, pure white; making a fine appearance in beds or groups	oz. 3 c, 5c
540 Tulip. A magnificent variety. The plants grow about 14 inches high, each plant producing 50 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
541 Umbrosom. Richest vermilion, with a deep shining black spot on each petal	oz. 30c, 5c
542 Single Mixed. All colors	oz. 20c, 5c

HARDY PERENNIAL VARIETIES.

	PER PKT.
543 Iceland (Papaver Nudicaule). One of the most effective and beautiful. They are perfectly hardy and produce an endless profusion of flowers which are most useful for cutting; graceful habit, with pretty fern-like foliage; finest mixed	10c
544 Oriental. Very large, scarlet, with blotch on each petal; magnificent border plant. 3 feet	5c
545 Oriental Hybrids. Beautiful new hybrids of the Oriental Poppy, producing flowers of immense size, 6 inches and over in diameter and of many novel colors, such as salmon, pink, cherry, etc.	10c



Shirley Poppy.

**PASSIFLORA** (Passion Flower).—Indispensable climbing plants for garden or greenhouse, bearing a profusion of attractive flowers. Hardy climbers. Protect by mulching.

- 546 *Alba*. Ivory white; fragrant. . . . . PER PKT. 10c
- 547 *Coerulea Grandiflora*. Sky-blue flowers, followed in autumn by golden fruit. . . . . 10c
- 548 *Incarinata*. White, with purple rays; fragrant; followed by yellow edible fruit . . . . . 10c

**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.

- 549 *Hybridus Grandiflorus*. Large-flowered, newest varieties . . . . . PER PKT. 10c



*Primula Chinensis Fimbriata*.

- 564 *Primula Forbesi* (Baby Primrose). Very free-flowering, beautiful rosy lilac flowers. Fine for pots and bouquets. Seedlings begin to bloom three months after being sown. . . . . 20c
- 565 " *Obconica Grandiflora Hybrida*. Improved, large flowered, varying in color from white to bright rose and violet; a splendid pot plant . . . . . 15c
- 566 " *Obconica Grandiflora Fimbriata*. Very large flowers, with nicely fringed and toothed petals. The flowers are produced in constant succession, ranging in color from white to rose; a beautiful pot plant. . . . . 20c

**HARDY PRIMROSES**. The following varieties are delightful for early flowers under glass, or in the open air, with protection during winter. Half-hardy.

- 567 *Auricula*. Finest mixed. Extra choice; saved from a prize collection. . . . . PER PKT. 10c
- 568 *Veris* (Polyanthus). Splendid colors; extra fine. . . . . 10c
- 569 *Vulgaris*. True Yellow English Primrose . . . . . 10c

**PYRETHRUM**.—Valuable hardy border plants, throwing up numerous stems about 2 feet high; remain in bloom a long time. Hardy perennial.

- 570 *Single Hybrids*. Large flowers, choicest colors, saved from named varieties. Finest mixed . . . . . PER PKT. 10c
- 571 *Double Hybrids*. Large flowers, choicest colors, saved from named varieties. Finest mixed . . . . . 15c
- 572 *Roseum* (Persian Powder Plant). Bright rose, 1½ feet . . . . . 5c
- 573 *Aureum*. Bright yellow foliage, extensively used for ribbon and carpet bedding. ¾ feet . . . . . 10c

**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.

- 574 *Maculata*. Mixed; all colors . . . . . 5c pkt.

**RICINUS**.—Known as "Castor 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.

- 575 *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. 25c, 5c
- 576 *Gibsonii*. Dark stems and foliage. 10 feet . . . . . oz. 20c, 5c
- 577 *Gibsonii Mirabilis*. Dwarf, branching habit, deep red foliage. 4 feet . . . . . oz. 25c, 5c
- 578 *Philippinensis*. Large, beautiful dark foliage. 10 feet . . . . . oz. 25c, 5c
- 579 *Sanguineus*. Blood-red stalks, and clusters of red fruit. 8 ft oz. 20c, 5c
- 580 *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. 25c, 5c
- 581 *Finest Mixed*. All varieties . . . . . oz. 15c, 5c

Premier Collection Ricinus. Six Varieties. 1 packet of each . . . . . 20c

**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.

- 550 *Brilliant Scarlet* . . . . . PER PKT. 5c
- 551 *Alba*. Pure white . . . . . 5c
- 552 *Pink*. Very large and delicate shade . . . . . 5c
- 553 *Red and White Striped* . . . . . 5c
- 554 *Finest Mixed*. Large flowering sorts in splendid colors . . . . . oz. 40c, 5c
- 555 *Double Finest Mixed*. Superb large double flowers in great variety . . . . . 10c

**POTENTILLA**.—Handsome flowering herbaceous plants, very useful and ornamental for flower beds and borders. Hardy perennial.

- 556 *Single Hybrids*. Finest mixed. . . . . PER PKT. 5c
- 557 *Double Hybrids*. Finest mixed. . . . . 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 the final potting a richer soil is necessary, consisting of two parts loam to one each of well-decayed manure and leaf-mold. They require to be well ventilated, well watered and slightly shaded throughout the summer.

**PRIMULA CHINENSIS FIMBRIATA**. PER PKT.

- 558 *Alba Magnifica*. The finest pure white, with bright yellow eye, beautifully fringed . . . . . 25c
- 559 *Chiswick Red*. Large brilliant scarlet, finely fringed. . . . . 25c
- 560 *Coerulea*. Fine blue; excellent. . . . . 25c
- 561 *Delicata*. Delicate rose, finely fringed . . . . . 25c
- 562 *Choicest Mixed*. This mixture contains nothing but the finest sorts . . . . . 25c
- 563 *Double Fringed*. Finest mixed. Large flowering; saved from new and distinct varieties; extra fine. . . . . 50c



*Ricinus Zanzibariensis*.



Salvia Splendens.

**ROCKET** (Hesperis.) Fragrant free-flowering hardy perennial, blooming in the spring and growing freely in ordinary soil. 1½ ft. OZ. PKT.  
 582 **Finest Mixed.** All colors ..... 40 5c

583 **ROMNEYA. Coulteri** (California tree poppy.) A stately evergreen, blooming continually from June to September. Large pure white flowers, with golden centre, resembling in fragrance the Magnolia. The seeds are slow in germinating. Hardy perennial. 10c pkt.

**RUDBECKIA** (Cone Flower.) A showy class of strong, easily cultivated plants 1½ ft.  
 584 **Bicolor Superba.** An effective annual, and useful for cutting, similar in color and markings to the dwarf French Marigold, "Legion of Honor." It grows about two feet high, forming a many-branched dense bush, the flowers borne on long stems and in great profusion ..... 3 pkts. 25c, 10c pkt.

**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 until late fall. OZ. PKT.

585 **Large Flowering Mixed.** A splendid variety of colors, flowers large size ..... 75 5c

586 **Emperor.** This new variety forms only one leading stem, and bears on its summit a veritable bouquet of the most 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. OZ. PKT.

- 587 **Farinacea.** Bright, light blue, long bloomer, annual. .... 10c  
 588 **Splendens.** One of the finest summer and fall plants, with magnificent, brilliant scarlet flowers. 2 feet. .... \$2.00 10c  
 589 " **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. .... \$3.00 10c  
 590 " **Silver Spot.** The leaves are rich dark green, with light sulphur or cream-colored spots of various sizes liberally sprinkled over them. The unique and elegant foliage is very abundant and has an extremely fresh and healthy appearance. The intense bright scarlet flowers are very large and the plants of neat compact habit. A charming variety of great effect ..... 3 pkts. 25c, 10c

**SCABIOSA** (Mourning Bride, or Sweet Scabious.) One of our handsomest summer border plants, producing in great profusion very double flowers in a variety of shades and colors; a splendid flower for table bouquets, etc. Hardy annual. OZ. PKT.

- 591 **Black Purple.** Very large double flowers ..... 5c  
 592 **Golden Yellow.** Pure golden yellow, double flowers ..... 5c  
 593 **Snowball.** Elegant double white; fine for bouquets. 2 feet. .... 60 5c  
 594 **Finest Mixed.** Large double flowers in choice variety of color ..... 40 5c  
 595 **Tall Pompadour.** Very large flowers, globular form, and exceedingly showy. The petals are black purple, shaded white at the base, making a splendid effect; valuable as a cut flower ..... 10c  
 596 **Caucasica.** 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



Scabiosa.

**SCHIZANTHUS** (Butterfly Flower.) A splendid class of plants, combining elegance of growth with a profusion of rich and various-colored flowers; fine for greenhouse decoration and the flower garden; of easy culture; half-hardy perennial. PKT.

- 597 **Mixed.** Best varieties ..... 5c

**SILENE** (Catchfly.) Free-flowering, for beds, borders or ribbons. Succeeds in any good soil. Hardy annual. PER PKT.

- 598 **Single.** Mixed colors ..... 5c  
 599 **Double.** Mixed ..... 5c



Sweet William.

**SMILAX.**—In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorne 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 hotbed or greenhouse, in February, and keep in a moist place. Tender perennial climber; white 10 feet.

- 600 **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 of berries which almost completely cover the plants. Tender perennial; flowering and fruiting the first season from seed. PER PKT.

- 601 **Capsicastrum Nanum.** Small red berries; extensively grown by florists. .... 10c

**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.

- 602 **Auricula Eyed Perfection.** Splendid variety of colors with clearly defined eye ..... oz. 50c, 5c pkt.  
 603 **Single, Finest Mixed.** Choice colors ..... oz. 25c, 5c pkt.  
 604 **Double, Extra Large.** Finest Mixed. Very large flowers ..... 10c pkt.

**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 very long, and the individual flowers are enormous in size and very double.

605	Light Blue	.....10c pkt	607	Scarlet	.....10c pkt
606	Rose	.....10c pkt	608	White	.....10c pkt
609	Finest Mixed. All colors	.....10c			
610	Dwarf German Mixed. All colors	.....5c			
611	McCullough's Cincinnati Market. A fine perpetual blooming stock, producing one long sturdy spike closely set with enormous double flowers. A grand variety; good forcer	.....10c			
612	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			



Stock Giant Perfection.

**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.

613 Brompton, Finest Mixed. Large-flowering double..... 10c pkt

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

## 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 imaginable, 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.

614 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., 2c ¼ lb., 7c lb.

615 Finest Mixed. This is a mixture of many distinct named varieties. 5c oz., 15c ¼ lb., 50c lb.

616 Fine Mixed. A very good mixture of over twenty varieties. 15c ¼ lb., 40c lb.

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

The Following Named Varieties Sweet Peas 5c pkt., 10c oz., 25c ¼ lb., 75c lb.

- |     |   |     |  |
|-----|---|-----|--|
| 617 | Aurora. Standard and Wings white, shaded and striped with orange salmon.                              | 628 | Earliest of All. Rose pink standard, with white wings; excellent for forcing.                              |
| 618 | Blanche Burpee. Largest pure white, of exquisite form.  | 629 | Emily Henderson. Pure white, large bold flowers; blooms early and profusely.                               |
| 619 | Blanche Ferry, Extra Early. Rose pink standard, with white wings; very early.                         | 630 | Emily Lynch. Standard rose pink, wings light pink and primrose; hooded.                                    |
| 620 | Captivation. Standard and Wings magenta. Medium sized flower, open form.                              | 631 | Golden Gleam. Light primrose yellow; large flower,   |
| 621 | Columbia. Standard light carmine and white striped; wings blue and white striped.                     | 632 | Gorgeous. Standard bright orange, wings orange rose; very bright and showy.                                |
| 622 | Coquette. Standard light violet, shading to primrose; wings creamy primrose.                          | 633 | Gray Friar. Marbled or watered purple on white; pretty light shade, large flower.                          |
| 623 | Countess of Cadogan. Standard opens purple and changes to blue; wings blue, shading lighter at edges. | 634 | Katherine Tracy. Bright pink; a large, bold, perfect flower, of great substance.                           |
| 624 | Crown Jewel. Standard violet and rose pink blended; wings light primrose; large flower.               | 635 | Hon. F. Bouverie. Standard coral pink; wings lighter pink; a charming flower of grand shape and substance. |
| 625 | Daybreak. Standard white, watered with crimson; wings white, clouded red.                             | 636 | Lady Grisel Hamilton. Beautiful pale lavender; in form it is of the most advanced giant flowering type.    |
| 626 | Dorothy Tennant. Rosy mauve, deepening as the flower ages; large size.                                | 637 | Lady Mary Currie. Bright orange pink; very bright and showy; extra fine.                                   |
| 627 | Duke of Sutherland. Standard purplish maroon; wings bright indigo blue; large size.                   | 638 | Lady Nina Balfour. Standard lavender; wings bright blue; the whole suffused with pale primrose.            |



## SWEET PEAS.

### LARGE FLOWERING NAMED VARIETIES.—

Continued.

*Named Varieties Sweet Peas 5c Pkt., 10c oz., 25c ¼ lb., 75c lb.*

- 639 **Lovely.** Standard and Wings deep rose at base, shading to pale pink and blush at edges.
- 640 **Lottie Eckford.** White ground, shaded and edged with light blue and mauve.
- 641 **Lottie Hutchins.** Creamy white, delicately striped and flaked with carmine blush.
- 642 **Maid of Honor.** Light blue on a white ground, shaded and edged; fine hooded form.
- 643 **Mars.** Bright crimson scarlet, deepening with age; large expanded flower.
- 644 **Modesty.** Delicate blush pink, almost white; flowers large size and perfect form.
- 645 **Mont Blanc.** Pure White; large, well expanded flower; extra early; good forger
- 646 **Mrs Dugdale.** Standard rose, shaded primrose; wings primrose shaded and splashed light rose; very large and finely expanded.
- 647 **Mrs. Eckford.** Pale primrose yellow; large flower; the best of this shade.
- 648 **Navy Blue.** Standard bluish purple, wings navy blue; the best dark blue
- 649 **New Countess.** Standard lavender; wings light blue; large flower, extra fine.
- 650 **Oriental.** Bright pink suffused with orange and primrose; superior to Lady Peuzance.
- 651 **Othello.** Standard and Wings dark maroon, showing veins of black. Large size; hooded form.
- 652 **Ovid.** Standard and Wings light carmine, changing to rose crimson. Large size; hooded form.
- 653 **Prima Donna.** Bright blush pink; large size and fine form; one of the best
- 654 **Prince Edward of York.** Cerise standard and crimson wings; large flower.
- 655 **Prince of Wales.** Bright rose; large flower; the prettiest of the bright red varieties.
- 656 **Ramona.** White, delicately striped and flaked with pale pink; large flower.
- 657 **Royal Rose.** Standard deep rose shading with pink; wings light pink; very large flower.
- 658 **Salopian.** Rich crimson scarlet; large flowers of fine form; the best scarlet.
- 659 **Shazada.** Standard deep maroon; wings indigo blue, blossoms large and well formed.
- 660 **Stella Torse.** Primrose yellow, tinged with blush pink; well formed graceful flowers.
- 661 **The Bride.** Large pure white, hooded form; a fine variety for florists.
- 662 **Venus.** Lovely salmon buff, shaded rose pink.

ALL NAMED VARIETIES 5c PKT., 10c OZ., 25c ¼ LB., 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. 12 pkts. newest large flowering varieties. Special price.....35c
- No. 2. 12—1 oz. pkts. newest large flowering varieties. Special price .....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 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. PER PKT

- 663 *Alba Oculata*. White, dark eye..... 5c
- 664 *Alata*. Buff, dark eye..... 5c
- 665 *Bakeri*. Pure white..... 5c
- 666 *Mixed*. All colors..... oz. 75cts. 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. PER PKT.

- 667 *Fournieri*. Porcelain blue and rich violet, throat bright yellow; very free flowering. 6 inches. .... 10c
- 668 *White Wings*. This variety is unusually attractive, being pure white, with flush of rose at the throat ..... 10c

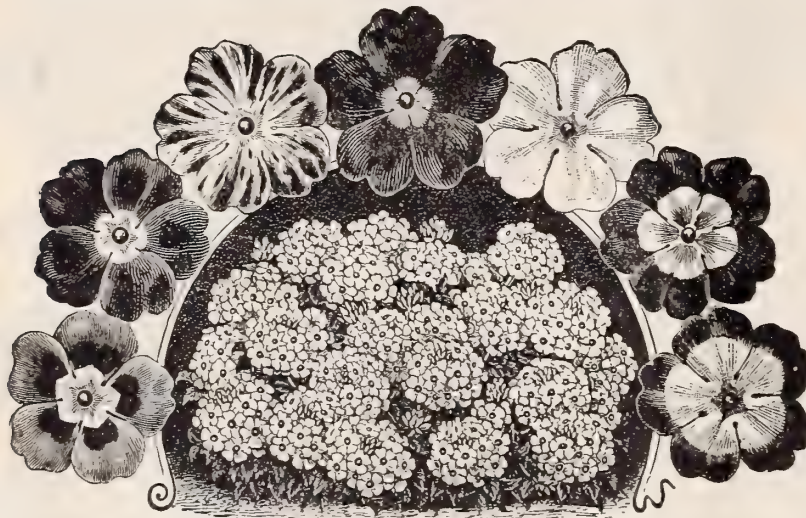
**VERBENA.**—Nothing is easier to grow, and the display they give during the summer is equaled only by the Phlox. To have the best results seeds should be started early (in the house) and the young plants bedded out by the first of June. Set them a foot or more apart, and in a month, at least, they will be so grown and matted together that one can hardly tell one plant from another. A circular raised mound is a very good place on which to plant Verbenas. The bed should have the full sun, and a good supply of water.



Thunbergia.

Verbenas are more easily 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 time. The lavish and showy display of flowers in a Verbena bed is one of the most attractive.

- 669 *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. \$2 50 10c
- 670 *Auriculiflora*. Various shades, all with distinct eye of white or rose ..... 10c
- 671 *Defiance*. Brilliant scarlet, fine for bedding ..... 10c
- 672 *Candidissima*. Large trusses of pure white flowers ..... 10c
- 673 *Blue*. Bright blue, in various shades ..... 10c
- 674 *Italian Striped*. Beautiful ..... 10c
- 675 *Pink*. Bright shades of pink; fine McCullough's Premier Collection Mammoth Verbenas. Six varieties. 1 pkt. of each ..... 40c
- 676 *Extra Choice Mixed*. Embraces all colors ..... Oz. \$1 00 5c



Verbena Mammoth.

**TOM THUMB VERBENAS.**—Dwarf and compact, not exceeding six inches in height; the branches are only one-half the length of the old varieties, and form almost circular bushes about two feet in diameter. Flowers are large and well formed of various beautiful colors.

- 677 *Finest Mixed*. All colors..... 10cts pkt.; 3 pkts. 25cts.
- 678 *Lemon Verbena* (*Aloysia Citriodora*). Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower..... 10cts pkt.; 3 pkts. 25cts.

**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. PER PKT.

- 679 *Alba Pura*. Beautiful, pure white ..... 10c
- 680 *Rosea*. Rose, with dark eye..... 10c
- 681 *Rosea Alba*. White, with crimson eye..... 10c
- 682 *Finest Mixed*. All colors..... Oz. \$1 00 5c



Vinca Rosea.

Violet seeds germinate very slowly. Hardy

**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. Perennial.

- 683 *Odorata, The Czar*. Large violet, fragrant..... 10c
- 684 *Odorata, White Czar*. Large white, fragrant..... 10c
- 685 *Finest Mixed*. All varieties, mixed ..... 10c



Violet.

**VIRGINIAN STOCK.**—(*Chleranthus Maritimus*.) A beautiful free-flowering plant for borders or baskets. Hardy annual. PER PKT

- 636 *Mixed*. All colors. 3 inches..... 5c





**Mammoth Flowering Zinnia.**

plant, they present a curious as well as beautiful appearance.

**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.

- 686 1/2 Double, Finest Mixed ..... 10c pkt.
- 687 Single, Finest Mixed ..... 5c pkt.

**WHITE PARIS DAISY.**—(See *Chrysanthemum Frutescens*.)

**WOODROOF.**—(See *Asperula Odorata*.)

**XERANTHEUM.**—(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.

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

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

- 689 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.

- 690 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
- 691 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 pkt. 25c
- 692 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

- 693 Zebra. A very pretty strain of striped flowers, As the colors vary on each Oz. \$1.00, 10c pkt.



**Dwarf Zinnia.**

**LARGE FLOWERING DOUBLE DWARF.**

- 694 Bright Rose..... Oz. 75c, 5c pkt | 696 White..... Oz. 75c, 5c pkt
- 695 Scarlet..... Oz. 75c, 5c pkt | 697 Yellow..... Oz. 75c, 5c pkt
- 698 Finest Mixed. All colors..... Oz. 50c, 5c pkt

McCullough's Premier Collection Large Flowering Zinnias, 4 pkts. 1 pkt of each 5c

- 699 Liliput. Compact bushes, bearing small perfectly double pom-pom-shaped flowers of the brightest colors, which cover the plants during the entire summer and until frost sets in..... 10c pkt, 3 pkts. 25c

**"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.



- 700 Dwarf Growing Varieties ..... Oz. 25c, 5c pkt | 710 Tall or Climbing Varieties ..... Oz. 25c, 5c pkt

Our Fall Catalogue of Bulbs, etc., will be Issued About September 1st, and will be SENT FREE to All Customers and Applicants.

# Summer-Flowering Bulbs and Roots.

Our Prices Include Postage on Single Bulbs and by the Dozen, Except Where Otherwise Noted. Bulbs Quoted by the Hundred are not Sent Prepaid.



Single Tuberous-Rooted Begonias.

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 Poitevine.** 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.** Bright vermilion red, penciled with yellow in the center; compact, dwarf with very large flowers 3½ feet.

**David Harum.** Dark bronze foliage. Flowers large, with well-rounded petals; color vermilion scarlet, dotted with crimson spots; strong grower and free bloomer. 3½ feet.

**Egandale.** A fine dark foliaged variety, with flowers currant red; very distinct and striking appearance. 4 feet.

**Flamingo.** Glowing crimson, flowers large, gracefully reflexed and of fine form; dark green foliage. 4 feet.

**Florence Vaughan.** Rich golden yellow, spotted bright red. 4 feet.

**Italia.** Orange scarlet, with a broad golden yellow border. The flowers, which are produced on massive stems about sixteen inches long, are set well above the foliage. 5 feet.

**Luray.** Deep rosy pink; flowers of good size, in large trusses, well above the foliage.

**Martha Washington.** Bright rose; flowers large, with immense trusses; very beautiful and attractive; a constant and abundant bloomer. 3 feet.

**Mrs. Kate Gray.** Rich orange scarlet, overlaid with gold; flowers large, with immense trusses; foliage bright glossy green; one of the best. 6 feet.

**Queen Charlotte.** Rich scarlet, with a wide, bright gold band around each petal; large flowers, green foliage. 3 feet.

**Sam Trelease.** Rich glowing scarlet edges and center marked with yellow. The flowers open out flat, with broad petals of good substance. 3 feet.

**Souvenir Antoine Crozy.** Intense scarlet crimson, with a broad, rich golden yellow edge, and does not fade or scorch in the hot and dry weather. Flowers are very large, of great substance, opening flat. 3 feet.

The above named Cannas 10 cents each; \$1.00 per doz.

**Crozy's Dwarf Varieties Mixed**..... 8c each, 75c per doz.

**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.

**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.

## AMARYLLIS.

Plant in equal parts sandy loam and leaf mold. If convenient, start in hot-bed, 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.** Trumpet shaped. Dark rose and white. 20c each, \$2.00 per doz.

**Equestris.** Large beautiful flowers, of a bright salmon pink, with snow-white throat..... 15c each, \$1.50 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.

## 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.

## 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,



Crozy's Cannas.

**CALADIUM ESCULENTUM.**—(Elephant's 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.



**Caladium Esculentum.**

**FANCY-LEAVED CALADIUMS.**

Fancy-leaved Caladiums have, in recent years, grown very rapidly in popular favor, not only for the decoration of the conservatory, green-houses 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, white for exhibition plants at fairs, etc., during the summer and fall months, nothing can equal their beauty.



**Fancy-Leaved Calladimus.**

**Boildieu.** Deep green, with bright crimson-rayed center.

**Chantini.** Green, red centre, spotted white.

**E. G. Henderson.** Green, with transparent rose spots and mottled crimson-rayed centre.

**Louis Duplessis.** Red rays and veins on a white ground, with green margin.

**Max Kolb.** Light green ground, with gray centre and red spots.

**Mme. F. Kœchlein.** White ground, violet rose ribs, green veins.

**Reine Victoria.** Green, spotted with white and crimson.

**Wightii.** Dark green, with white and red spots.

Price, 25 Cents Each. \$2.50 Dozen.

**SPOTTED CALLA.**—(Richardia Alba Maculata.)

Leaves deep green, with many white spots. Flowers pure white, with black centre. 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

**CINNAMON VINE.**

A rapid-growing climber. The leaves are heart-shaped, bright glossy green; growth is very rapid, reaching about 8 feet in height; quite hardy. 10c each, \$1.00 doz.

**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 centre; long stems. An early and profuse bloomer.

**Black Prince.** Velvety maroon, almost black; flowers large, of perfect form, and full to the center.



**Double Dahlias.**

**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.

**Crimson Ball.** Bright crimson purple; perfect shape and full to the center; dwarf, vigorous grower and constant 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.

**Mary Hallock.** Golden yellow; petals beautifully quilled; perfect form.

**Nymphae.** Clear, distinct shrimp pink, shading slightly darker towards the outer petals; extensively grown for cut flowers.

**Storm King.** Snow white; perfect form and full to the center; early, profuse and constant bloomer; a strong vigorous grower of branching habit. As a cut-flower variety, it is the florists' ideal.

**Strahlen Krone.** Intense cardinal-red, with long twisted petals. A very early and profuse bloomer.

**Wm. Agnew.** Intense glistening scarlet crimson; immense size, perfect form; free flowerer. Very effective as a bedding plant or cut-flower.

**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 centres, 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.



Gladiolus—Snow White.

**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
Striped and Variegated. Shades mixed .....	5c	40c	3.00
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 TEN CENTS PER DOZ. EXTRA FOR POSTAGE.

**CRINUM.**

Magnificent flowering bulbs belonging to the Amaryllis family, and are of easy cultivation in the open ground, and, when taken up in the fall, can be dried off and carried through the winter like other bulbs. They can also be grown in pots and treated like Amaryllis, and, like most of its class, they bloom best when somewhat pot-bound.

- Americanum. Large, white, fragrant, lily-like flowers. .... 15c each, \$1.50 doz.
- Kirkii. The grandest variety of this group. The flowers are fragrant, petals broad and white, with a deep purple reddish stripe through the center. Usually two flower stalks are sent up, each bearing a large cluster of 12 to 20 flowers. It blooms with the greatest freedom. Extra large bulbs, 30c each, \$3.00 doz. If by mail, 10c each extra.

**GLOXINIA.**

Magnificent for house culture, producing in great profusion beautiful flowers of the richest and most 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 blossoms. Keep the bulbs in a dry, warm place, and plant out in June. Bulbs can be taken up in October, and, after a few weeks' rest, potted and flowered in the house in winter, or kept over for planting out another season. .... 25c each, \$2.50 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.

Crocsmiflora. Brilliant orange scarlet. .... 3c each, 30c doz., \$2.25 per 100

**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 very 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, shrubby 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. Sellev. Rosy crimson, slightly pencilled darker; center of petals and throat rayed white.
- Eugene Scribe. Rose, blazed carmine-red; flowers very large.
- Isaac 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, 10 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 markings of the Lemoine section. Mixed varieties. .... 5c each, 50c doz., \$1.00 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.

5c each, 40c doz., \$3.00 per 100



Copyrighted by A. Bland  
Ismene Calathina.

**LILIES.**



**Lilium Auratum.**

No class of plants can lay so much claim to our attention as the Lilies. They are stately, elegant and beautiful and possess the most agreeable perfume, and for general effect, whether growing in garden or house, they have no rivals. The soil should be rich, deep and mellow, with good drainage, as nothing will injure the bulbs more than water collecting and standing around them. Do not put manure about the bulbs when setting as it collects moisture and insects, and often causes the bulbs to decay. Top dressing is the better way to enrich the soil after the bulbs are set. The beds should be well covered with leaves and straw manure to exclude the frost. Set bulbs four to six inches deep according to their size.

**Auratum.** (Golden Japan Lily.) This superb Lily has flowers 10 to 12 inches in diameter, composed of six white petals, thickly studded with rich chocolate-crimson spots and a bright golden band through the center of each petal; exquisite vanilla-like perfume. Extra strong bulbs 25c each, \$2.50 dozen. Large bulbs 15c each, \$1.50 dozen.

**Longiflorum.** A variety bearing in clusters beautiful snow-white trumpet shaped flowers of rare fragrance; fine for forcing and house culture ..... 20c each, \$2.00 per doz.

**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. EACH. DOZ.

**Speciosum Album.** Large, fragrant, pure white.....15c \$1.50  
 " **Roseum.** White, shaded with rose, fragrant.....15c 1.50  
 " **Rubrum.** White, heavily spotted with rich crimson, fragrant.....15c 1.50

**Tigrinum Splendens** (Tiger Lily.) Orange red, spotted with black.....10c 1.00

**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 per doz.

**MADEIRA or MIGNONETTE VINE.**

A rapid-growing vine, covering a large space in a short time. Fleshy heart-shaped leaves of a light green, and numerous racemes, of feathery flowers of delicious fragrance. A beautiful and popular vine.....5c each, 40c per doz.

**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.



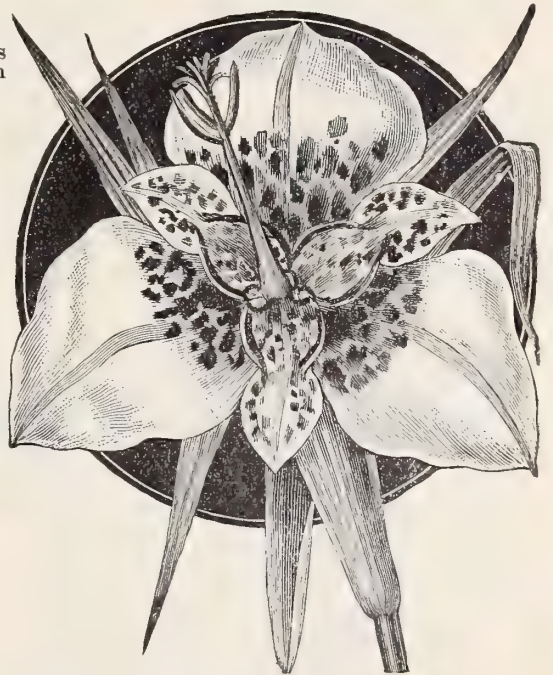
**Tuberoses Excelsior Pearl.**

- Dieppi.** Bright crimson, ..... 15c per doz., 75c per 100.
- Dieppi Alba.** Pure white, very fine.....15c per doz., 75c per 100
- Lasandria.** 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,

**TIGRIDA.** (Shell Flower.)

Curious and beautiful shell-like flowers about four inches in diameter, flowering from July to Oct. The bulbs can be planted about the middle of May, and taken up in October and kept over winter in dry sand.

- Conchiflora.** Orange, with crimson spots... 5c each, 40c per doz.
- Grandiflora.** Very large; deep crimson...5c each, 40c per doz.
- Grandiflora Alba.** Large ivory-white flowers, spotted with maroon and rosy lake in centre.....5c each, 40c per doz.



**Tigridia.**

**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 Tuberoses. 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, 2c per doz., \$1.25 per 100.
- Double, Tall.** Extra large bulbs.....4c each, 35c per doz., \$1.50 per 100.

**NEW BRANCHING TUBEROSE ALBINO.**

This charming single flowering Tuberoses 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 Tuberoses.....4c each, 35c per doz.

**GENERAL LIST OF BEDDING PLANTS.**

	EACH.	PER DOZ.		EACH.	PER DOZ.
<b>Ageratum</b> , blue.....	10c	\$1 00	<b>Lobelias</b> , sorts.....	8c	75c
<b>Alternanthera</b> , of sorts.....	8c	75c	<b>Marigolds</b> , sorts.....	5c	60c
<b>Asters</b> , Assorted Colors.....	5c	60c	<b>Nasturtium</b> , sorts.....	5c	60c
<b>Begonias</b> , sorts.....	10c to 15c	\$1.00 to \$1.50	<b>Pansies</b> , McCullough's Premier Strain.....	5c	50c
<b>Cannas</b> , New Dwarf, Started.....	2c	2.00	<b>Petunia</b> , Double; sorts.....	15c	\$1.50
<b>Centaurea Gymnocarpa</b> .....	10c	1.00	<b>Petunia</b> , Single; sorts.....	10c	1 00
<b>Colens</b> , new sorts.....	8c	75c	<b>Phlox, Drummondii</b> .....	8c	75c
<b>Geranium</b> , Double; sorts.....	1c	1.00	<b>Salvia</b> , Scarlet.....	10c to 15c	\$1.00 to 1.50
<b>Geranium</b> , Single; sorts.....	1c	1.00	<b>Stocks</b> , Double.....	10c	1.00
<b>Heliotrope</b> , sorts.....	1c	1.00	<b>Verbenas</b> , Finest.....	8c	75c
<b>Hollyhock</b> .....	15c	1.50	<b>Vincas</b> , sorts.....	10c	1.00
<b>Lantana</b> .....	10c	1.00	<b>Zinnias</b> , sorts.....	5c	50c

**CARNATIONS.**

The following varieties will be ready for delivery in April or May. They are strong plants, especially grown for Summer and Autumn blooming:

- America**. Scarlet large size, stiff stem, good grower and free bloomer.
- Ethel Crocker**. Pure pink; large size long strong stem, free bloomer and vigorous grower; fragrant.
- Estelle**. The ideal scarlet carnation; producing an abundance of bright scarlet flowers of large size, stem strong and stiff; very strong clove fragrance.
- Flora Hill**. The finest white; flowers of enormous size; strong stems, free bloomers.
- Genevieve Lord**. A beautiful shade of pink; flowers largest size, with strong stems; vigorous growth and free bloomer; fragrant.
- G. H. Crane**. Brilliant scarlet; an early and free bloomer, with flowers of large size; sweet.
- Governor Roosevelt**. A brilliant scarlet, heavily shaded with maroon; flowers large; a vigorous healthy grower; strong wiry stems.
- Mrs. Geo. M. Bratt**. Clear white, heavily edged and striped with bright scarlet; flowers very large, and free bloomer.
- Mrs. Thos. W. Lawson**. A beautiful deep pink; flowers of largest size; strong stiff stem; fragrant.
- Olympia**. Clear glossy white, with delicate pencilings of scarlet running through the petals; flowers largest size; strong stiff stem; free bloomer; fragrant.
- The Marquis**. Flowers of largest size, of an exquisite shade of soft pink, strong stem; vigorous grower and free bloomer; fragrant. **15 Cents Each, \$1.50 per Dozen.**

**HARDY GARDEN PINK.**

**Her Majesty**. The flowers of this fine variety are of large size and of the purest white, very fragrant, and borne profusely on stout, erect stems, twelve inches long. It is hardy, and will winter in the open border, or may be grown in cold frames for early forcing. **15 Cents Each. \$1.50 per Dozen.**

**Palms, Ferns, Araucarias, Etc.**

SPECIMEN PLANTS A SPECIALTY.

We call special attention to our stock of Palms, Ferns, 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 STORES, 316 and 318 WALNUT STREET, CINCINNATI, OHIO.**

Send all correspondence to our Cincinnati Offices.



ARECA LUTESCENS.



LATANIA BORBONICA.



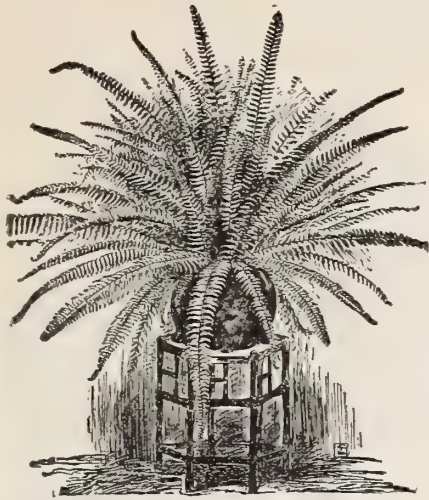
KENTIA BELMORIANA.

**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 20 lbs. each, 20c per lb., ready in Spring
- Chamerops Humilis**. A handsome fan-leaf Palm of rapid, easy culture. Very valuable and useful for house culture or outdoors during the Summer..... \$3.00 to \$5.00.
- Kentia Belmoriana**. One of the hardiest and best Palms for growing in a 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 Belmoriana, with stronger growth and broader, heavier foliage..... \$1.00 to \$5.00.
- Latania Borbonica** (Chinese Fan Palm). A very popular and hardy variety..... 10c to \$7.50.
- Livistonia Rotundifolia**. One of the prettiest Palms, especially suited for table decoration. The foliage is gracefully recurved, forming an almost globular plant..... \$1.50 to \$5.00.
- Combination Palms**. Many prefer this class of plant. The center plant is tall, with three small plants around it, the whole forming a handsome bushy specimen..... \$4.00 to \$15.00.

It is impossible for us to give an adequate description of the various sizes we can offer, as we have a fine stock of Specimen Plants, but our long experience enables us to assure our customers **FULL VALUE FOR PRICE CHARGED.**

# FERNS.



BOSTON FERN.

Undernoted we give a description of a few of the leading varieties of Ferns, but can supply other sorts of merit at low prices.

**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). In the vicinity of Boston no other plant is used so extensively as this graceful Nephrolepis, which differs from the ordinary Fern in having much longer fronds, which frequently attain a length of four feet. These fronds arch and droop over 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 \$5.00 and \$10.00 each.

**Nephrolepis Davaloides Furcans.** A beautiful and distinct crested variety. The fronds terminating in a branching crest of finely cut and divided growths; a most desirable variety.....50c to \$2.00

**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, Dracænas and other Plants.



ARAUCARIA ROBUSTA COMPACTA.

**Alocasia Illustris.** An excellent plant to grow in connection with fancy-leaved Caladiums, or for planting in the open border in a partly shaded position. The foliage is large, of a dark green, clouded with a velvety blue-black.....25c to \$1.00 each.

**Araucaria Excelsa.** The most popular of all tender evergreens, is becoming a greater favorite every season. As a decorative plant for the house, this is one of the handsomest and most serviceable.....\$1.50 to \$4.00

**Araucaria Excelsa Glauca.** An exceptionally valuable variety; a compact grower. The fronds are longer, broader and heavier than those of Excelsa, and are of a bluish green color, which, under the proper conditions, has a silvery, glaucous tint.....\$2.00 to \$7.50

**Araucaria Robusta Compacta.** The finest of all the Araucarias. Foliage very dense, heavy and compact, much more beautiful and desirable than Excelsa. \$2.00 to \$7.50

**Asparagus Sprengeri.** A beautiful new variety of this graceful class of plants, especially useful to grow as a pot plant for house decoration, or for planting in hanging baskets, where it makes a graceful drooping plant with branches or fronds four to five feet in length, of a rich shade of green.....25c to \$5.00



DRACENA.

**Clerodendron Balfourii.** 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. The trusses or panicles of flowers are upwards of six inches in length, and when trained upon trellises have a rich and elegant appearance.....25c to \$1.00

**Cyperus Alternifolius** (Umbrella Plant). An excellent pot plant, thrives in any good soil, and always presents a green and attractive appearance. ....25c to 50c

**Dracæna Fragrans.** One of the most admired of decorative plants, with beautiful deep green leaves. \$1.00 to \$2.50

**Dracæna Indivisa.** This variety is used very extensively as a center plant for vases, urns, etc. It stands full exposure to the sun. Its long, narrow, graceful foliage contrasts beautifully with other foliage and flowering plants.....25c to \$2.00

**Dracæna Terminalis.** Rich crimson foliage, marked with pink and white. 50c to \$1.00

**Ficus Elasticæ.** 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



SANSEVIERIA.

**Pandanus Urticæ** (Screw Pine). This is one of the most useful, ornamental foliage plants; excellent for the center of vases and baskets, or grown as a single specimen plant. ....\$1.00 to \$10.00

**Pandanus Veitchii.** One of the most attractive decorative plants. The leaves are light green, beautifully marked with broad stripes of pure white and gracefully curved.....\$1.00 to \$5.00

**Sansevieria Zealanica.** An elegant variegated plant, especially adapted for house decoration, the thick, leathery leaves standing the heat and dust of the house with impunity.....25c, 50c and \$1.00



ASPARAGUS SPRENGERI.

Baskets like this \$3.00 to \$6.00 each.

Palms, Ferns, Araucarias, Dracænas and other plants can only be sent by express at purchaser's expense.

## ROSES—Hardy Hybrid Perpetual.

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

**Anna de Diesbach.** Brilliant carmine-pink; large, full and fragrant.  
**Captain Christy.** A lovely rose, blooming almost the entire season; very large, double buds of a deep flesh color.

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

**Duke of Edinburgh.** Bright scarlet-crimson, shaded maroon; flowers large and full; a valuable variety.

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

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

**Madame Gabriel Luizet.** Fine satin rose, large and full.

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

**Margaret Dickson.** The finest white; large, perfectly formed flowers.  
**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.

**Blanch 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.

### ROSA RUGOSA.

The lovely Rugosa Roses form sturdy bushes three to five feet in height, covered with handsome, glossy-green foliage, and clusters



Gen. Jacqueminot.

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.

Extra Strong Plants, \$1.00 each; \$10.00 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, 25c and 50c each; \$2.50 and \$5.00 per dozen.

### HARDY CLIMBING ROSES.

**Baltimore Belle.** Pale blush; nearly white.

**Gem of the Prairie.** Large and double; color light crimson, somewhat blotched white.

**Prairie Queen.** Deep rose; hardy and desirable.

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

**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.

**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, sweetly scented and of a beautiful shell-pink. A great acquisition; good forcer and free flowerer; absolutely hardy.

**Crimson Rambler.** The plant is of very vigorous growth, making shoots from eight to ten feet during the season. The flowers are produced in trusses, pyramidal in shape, good specimens measuring nine inches from base to tip, and seven inches across, fairly covering the plant from the ground to the top, so that it is one mass of glowing crimson. The color is superb, and remains strong and vivid to the end. The profusion of bloom is marvelous, over three hundred blossoms having been counted on one shoot.



Crimson Rambler.

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

**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.



**TEA ROSES.**

Tea or Ever-blooming Roses are quite hardy south of the Ohio River and with careful protection live through our severe northern winters.

**American Beauty.** Deep rose shaded towards centre a rich carmine crimson; delicious fragrance.

Strong plants, 35c each; \$3.50 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 in cultivation; 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.** Rich deep pink, exceedingly fragrant; vigorous grower.

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

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

**Gruss-an-Teplitz.** Color, bright scarlet, shading to crimson; fragrant and profuse bloomer. The foliage is beautiful, all the young growth being a bronzy plum color. A queen among scarlet bedders. A perfect mass of crimson scarlet all summer.

**Hermosa.** Probably the most popular bedding rose in cultivation. It is a bright pink color, free flowering and perfectly hardy.

**Kaiserin Augusta Victoria.** 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.

**La France.** Splendid satiny rose; very large, full, fine form, a constant bloomer, delicious fragrance.

**Madame Abel Chatenay.** Flowers large and full, petals recurved, and of a beautiful rose, shaded with rose vermillion and tinged with salmon.

**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.** Rich dark velvety crimson; a free blooming and vigorous grower.

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

**President Carnot.** 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.

**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.



**La France.**

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

Large Rose Plants cannot be sent by Mail.

EXCEPT WHERE NOTED.

Medium Sized Plants, 5 Cents Each Extra for Postage.

**CHRYSANTHEMUMS.**



**Vivian Morel.**

Wm. H. Chadwick. Waxy white occasionally tinted pink; flowers very large. Growth, habit, stem and foliage simply perfect. 15 Cents Each; \$1.50 per Dozen.

**ORNAMENTAL GRASSES.**

**Eulalia Gracillima.** The most beautiful of all the Eulalias, with narrow graceful foliage, entirely green without variegation, except that the mid-rib is of a silvery sheen. Perfectly hardy, very valuable.

**Eulalia Japonica Variegata.** Leaves striped white and green longitudinally.

**Eulalia Zebrina.** 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.

**Arundo Donax (Great Reed.)** A magnificent variety, growing to a height of 15 feet, and forming dense clumps

25 Cents Each; \$2.50 per Dozen.

## 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.

**Antirrhinum** (Snap Dragon). Assorted colors.

**Aquilegia** (Columbine). Assorted colors.

**Campanula** (Canterbury Bells). Assorted colors.

**Chysanthemum, Hardy.** These beautiful small-flowered varieties are very popular for outdoor 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.*

**Coreopsis Lanceolata.** Gives a constant succession of the most brilliant golden-yellow flowers as large as a silver dollar, growing on long, slender stems, two feet high. The beauty of these flowers is unequaled by any yellow flower, and the long stems fit them for cutting for the house.

**Delphinium Formosum.** Very pretty and effective plant. It produces spikes of flowers, three feet high, which are a deep blue, with white eye. All old flower stalks should be removed before seed pods are formed; it will prolong the flowering season.

**Dielytra Spectabilis** (Bleeding Heart). Adapted for outdoor planting or forcing for early spring blooming. It bears long racemes of graceful heart-shaped pink flowers.

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

**Funkia Cœrulea.** Blue, broad green leaves.

**Funkia Alba** (Day Lily). Pure white, lily-shaped, fragrant flowers; borne in large clusters. . . . . 25c each

**Gaillardia Hybrida Grandiflora.** Exceedingly showy; blooming in masses from early summer until frost; flowers, single, two to three inches across. Fine for cutting.

**Helianthus Multiflorus Fl. Pl.** (Double Hardy Sunflower.) One of the most useful plants. It produces its large, double Dahlia-like golden yellow flowers in great profusion the entire summer and fall.

**Helianthus Rigidus.** One of the most desirable, beginning to bloom early in July and continuing until fall; flowers single, golden yellow, with dark centers. 3 feet.

**Hibiscus** ("Crimson Eye"). This elegant Hibiscus, after many years of careful selection, has become entirely distinct. It is a robust grower, with dark red stems and foliage. The flowers are immense in size. The color is pure white, with a large spot of crimson in the center of each flower.

15 Cents Each; \$1.50 per Dozen (except where noted). If sent by Mail, 20 Cents Each.

## CLIMBING PLANTS.

**AMPELOPSIS VEITCHI.**—(Japan Creeper or Boston Ivy.) It grows as rapidly as the old Virginia Creeper. 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 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 miniature pipe. . . . . 50c each, \$5.00 doz. By mail, 60c each.

**BIGNONIA RADICANS.**—(Trumpet Vine.) A rapid growing climber, with large, scarlet trumpet-shaped flowers. . . . . 25c each, \$2.50 doz. By mail, 30c each.

**CLEMATIS.**—The Clematis is, perhaps, the most popular climbing vine of the day, and is constantly gaining in popularity. Entirely hardy.



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.

**Henryii.** 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 frosts.

**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, fairly covering the plant, so that it is a mass of fleecy white; the fragrance is delicious. Strong Plants 30c each, \$3.00 per dozen. By mail, 40c each.

## HONEYSUCKLES.

**Monthly Fragrant, or Dutch.** Blooms all summer.

**Common Woodbine.** A strong rapid grower; flowers very showy; red outside, buff within. June and July.

**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; a lovely climber. . . . . 50c each. Can only be sent by Express or Freight.

**ORNAMENTAL FLOWERING SHRUBS.**



**Hydrangea Paniculata Grandiflora.**

- very attractive feature during the summer. . . . . 30c each; \$3.00 dozen.
- Euonymus Europæus.** (*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 dozen.
- Exochorda Grandiflora** (*Pearl Bush*). A vigorous-growing shrub; bearing white flowers in slender racemes in early spring; very graceful; useful for cut flowers. . . . . 35c each; \$3.50 dozen.
- Forsythia, Golden Bell** (*F. viridissima*). Bears bright yellow flowers before the leaves appear. . . . . 30c each; \$3.00 dozen.
- 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. . . . . 35c each.
- Fringe White.** A tall-growing shrub, blooming profusely in June. The singular flowers resemble bunches of whitesilkens fringe, hung gracefully among the foliage. . . . . 50c each.
- Golden Elder** (*Sambucus*). One of the best yellow foliage shrubs; the color is remarkably bright, rich and constant. . . . . 25c each; \$2.50 dozen.
- Halesia, (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 dozen.
- 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. . . . . 20c, 35c and 50c each; according to size.
- Lilac, Common** (*Syringa vulgaris*). The common purple species, and one of the best; 3 feet 2c each; larger sizes 50c to \$1.00.
- Lilac, Common White** (*S. vulgaris alba*). Flowers pure white; very fragrant; 2 feet. . . . . 30c each; larger sizes 50c to \$2.00.
- Mock Orange or Syringa** (*Philadelphus*). Fragrant pure white flowers; 3 feet. . . . . 25c each; larger sizes 50c each.
- Prunus Pissardi** (*Purple-leaved Plum*). The finest purple-leaved small tree or shrub. The young branches are a very dark purple; the leaves when young are lustrous crimson, changing to a dark purple, and retain this beautiful tint till they drop late in autumn; flowers small, white, single; 4 feet. . . . . 50c each; \$5.00 dozen.
- Pyrus Japonica** (*Japan Quince*). Blooms profusely in early spring; flowers dazzling scarlet. Makes an excellent hedge; 3 feet. . . . . 25c each; \$2.50 dozen.
- Pyrus Augustifolia** (*Bechtel's Double-flowered Crab*). One of the most beautiful. Tree of medium size, covered in early spring with large, beautiful double fragrant flowers of a delicate pink color; 3 to 4 feet. . . . . 75c each; \$8.00 dozen.
- Snowball** (*Viburnum opulus*). Snowy white flowers; borne in large balls in early summer. . . . . 25c each; \$2.50 dozen.
- Snowball, Japan** (*Viburnum Pllicatum*). 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. . . . . 50c each; \$5.00 dozen.
- Spirea Anthony Waterer.** A valuable and distinct variety; color bright crimson; it is of dwarf, dense growth, never exceeding 24 inches in height, and a profuse bloomer, being in bloom the entire summer and fall. . . . . 30c each; \$3.00 dozen.
- Spirea Billardii.** A strong growing, pink flowered, late blooming species; 2 to 3 feet. . . . . 25c each; \$2.50 dozen.
- Spirea Prunifolia** (*Bridal Wreath*). Blooms in May with pure white double flowers. Makes showy specimen plants for lawn. . . . . 25c each; \$2.00 dozen.
- Spirea Van Houttei.** The grandest of all the Spireas; it is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing. Clusters of 20 to 30 flat white flowers make up the raceme, and these clusters are set close along the drooping stems. Perfectly hardy and an early bloomer. . . . . 25c each; \$2.50 dozen.

- Almonds Flowering.** Double White and Double Rose; produces beautiful flowers in May, 2 to 3 feet. 35c Each; \$3.50 Dozen.
- 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.
- Berberry, (Berberis Canadensis).** Yellow flowers April to June, followed by red berries, 2 to 3 feet. . . . . 25c each; \$2.50 dozen.
- Berberry Purple** (*Berberis vulgaris purpurea*). Violet colored foliage and fruit; very effective; 2 to 3 feet. . . . . 25c each; \$2.50 dozen.
- Calycanthus, Sweet-Scented Shrub** (*Calycanthus Floridus*). Flowers fragrant, like strawberry; double and of a chocolate color, 2 to 3 feet. . . . . 30c each; \$3.00 dozen.
- 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 dozen.
- Corchorus, Japonica. (Globe Flower).** A graceful shrub with double yellow flowers from June to October. 3 feet. . . . . 30c each; \$3.00 dozen.
- Cornus Sanguinea (Red Twigged Dogwood).** A strong growing bush, with crimson colored branches, making it an attractive object in winter. . . . . 30c each; \$3.00 dozen.
- Deutzia Crenata flore plena.** Flowers double white, tinged with pink; 2 to 3 feet. . . . . 30c each; \$3.00 dozen.
- Deutzia Gracilis.** A dwarf bush, covered with spikes of pure white flowers in early summer. . . . . 25c each; \$2.50 dozen.
- Elaeagnus Longipes.** A very desirable, nearly evergreen shrub; with light foliage, which is silvered on the undersurface with little white scales. The abundant crop of orange colored fruit is a . . . . . 30c each; \$3.00 dozen.
- Weigelia Candida.** The best white Weigelia. 3 feet. . . . . 35c each; \$3.50 dozen.
- Weigelia Desboisii.** Beautiful deep rose colored flowers. 3 feet. . . . . 30c each; \$3.00 dozen.
- Weigelia Rosea Nana Variegata.** Leaves beautifully margined creamy white; flowers pink. It is a dwarf grower, and admirably adapted to small lawns or gardens. 3 feet. . . . . 30c each; \$3.00 dozen.

**HEDGE PLANTS.**

- 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 doz. \$6.00 per 100.
- Osage Orange.** This is 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.



**California Privet Hedge.**

**Pyrus Japonicus.** The Japan Quince or Fire Bush is one of the oldest ornamental hedge plants and still used extensively. 18 to 24 inches high, \$15.00 per 100.

## 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 sort:  
Three years old, 6 to 7 feet high, 25c each, \$2.50 per dozen.

#### SUMMMER VARIETIES.

**Early Harvest.** Pale yellow, fine flavor; August.  
**Golden Sweet.** Pale yellow, sweet and good; August.  
**Keswick Codlin.** Large pale yellow, pleasant; August.  
**Sweet Bough.** Large pale yellow, tender, sweet.  
**Yellow Transparent.** Pale yellow, good quality.

#### AUTUMN VARIETIES.

**Fall Pippin.** Very large, yellow, rich, aromatic.  
**Maiden's Blush.** Large, beautiful, blush cheek.  
**Rambo.** Yellow, streaked with red; October to December.  
**Red Beitigheimer.** Pale cream, covered with crimson.

#### WINTER VARIETIES.

**Baldwin.** Large, dark red, productive.  
**Ben Davis.** Large, handsome, striped; good quality.  
**Golden Russet.** Medium, dull russet, crisp, juicy.  
**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.  
**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.

STANDARD.

5 to 7 feet, 25c each; \$2.50 per dozen.

**Hyslop.** Deep crimson, very popular on account of its large size, beauty and hardness.  
**Transcendent.** 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.  
**Clapp's Favorite.** Large, juicy and rich. August to September.  
**Flemish Beauty.** Large, juicy, rich and fine. September to October.  
**Kieffer's Hybrid.** Large, rich color and good quality.  
**Lawson.** Yellow, flushed with crimson, crisp and juicy.  
**Lawrence.** Yellow, thickly dotted, fine flavor.  
**Seckel.** Small, yellowish brown, one of the best.  
**Tyson.** Large, yellow with brown cheek, sweet.  
**Wilder.** Yellow with red cheek, fine quality.

### PEACHES.

4 to 6 feet, 25c each; \$2.50 per dozen.

**Alexander.** Medium, greenish white, juicy, sweet.  
**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.  
**Elberta.** Large, yellow with red cheek, flesh yellow, firm, juicy, of high quality, very prolific.  
**Fitzgerald.** Large, yellow, suffused with red, flesh deep yellow, best quality, hardy and productive.  
**Mountain Rose.** Large, handsome red cheek, flesh white, juicy, one of the best. August.  
**Old Mixon Free.** Large, yellow with red cheek.  
**Sneed.** The earliest variety; medium size, creamy white, with light blush cheek, excellent quality.

### CHERRIES.

(HEART AND BIGARREAU.)

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

**Black Tartarian.** Very large, 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.

CHERRIES. (DUKE AND MORELLO.)

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

**Early Richmond.** Medium, dark red, fine quality.  
**Empress Eugenie.** Large, dark red, fine quality.  
**English Morello.** Dark red, rich, acid, juicy and good.  
**May Duke.** Large, red, an excellent variety.  
**Reine Hortense.** Large, red, juicy and delicious.

### 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.  
**Bradshaw.** Large, dark red, flesh green, productive.  
**Genii.** Large, purple, sweet, good market variety.  
**Lombard.** Medium red, juicy, good, hardy and productive. the leading market variety.  
**Shipper's Pride.** Large, purple, fine, juicy and sweet.  
On Peach Stocks, 4 to 6 feet, 50c each, \$5.00 per dozen.  
**Damson.** Small, oval fruit, purple, hardy, productive.  
**Weaver.** Large, purple, very prolific.  
**Wild Goose.** Medium, purple.

### BLACKBERRIES.

50c per dozen; \$3.00 per hundred except where noted.

Should be planted in rows six to seven feet apart, three to five feet in the rows. Keep the ground light and rich. Pinch the canes back when they have reached four feet in height.  
**Ancient Briton.** Large fruit, stems loaded with good-sized berries of fine quality, vigorous grower, hardy.  
**Early Harvest.** Very prolific, choice variety.  
**Eldorado.** Large fruit, borne in large clusters and ripen well together, fine quality, good keeper.  
**Snyder.** Medium size, sweet and juicy, extremely hardy and very productive.  
**White Iceland.** A white blackberry. This is a decided novelty, very prolific, sweet, tender and firm. Price, 10c each; \$1.00 per dozen.

### CURRANTS.

10c each; \$1.00 per dozen.

Set four feet apart in rich ground. Cultivate well or mulch heavily; prune out old wood so that each remaining shoot will have room to grow. Manure freely. Two-year-old plants.  
**Black Champion.** Large bunch and berry, excellent quality, strong grower, very productive.  
**Cherry.** Fruit large, bunch small, deep red, acid.  
**Fay's Prolific.** Extra large stems and berries, color rich red, fine quality, very productive.  
**Pomona.** Bright red, extra fine quality and enormously productive; strong vigorous grower.  
**White Grape.** Large, yellowish white, sweet, excellent quality and valuable for the table.

### DEWBERRY.

**Lucretia.** One of the low-growing, trailing blackberries. In earliness, size and quality, it equals any of the tall growing sorts. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family.  
50c per dozen; \$3.00 per 100.

### GOOSEBERRIES.

Plant three to four feet each way, manure well, and after fruit is gathered prune out all old wood. Two-year-old.  
**Downings.** Very large and fine quality.....\$1.25 doz.  
**Houghton.** Medium size, very productive.....\$1.00 doz.  
**Smith's Improved.** Large, thin skin, best for table use.....\$1.25 doz.  
**Industry.** English sort, of very large size, hardy.....\$2.50 doz.

# Fruit Trees, Small Fruits, Etc.—Continued.

## GRAPE VINES.

**Catawba.** A very late keeper; red, sweet and rich, with pleasant musky flavor.....15c each; \$1.25 doz.  
**Concord.** One of the most profitable and productive of all hardy grapes. Bunch and berry large; black, juicy and sweet.....10c each; \$1.00 doz.  
**Delaware.** Small, light red, skin thin, very juicy, sweet, sprightly, fine flavor.....15c each; \$1.50 doz.  
**Eaton.** Bunch very large, skin black, sweet and juicy pulp. 25c each; \$2.50 doz.  
**Ives' Seedling.** Dark purple, sweet, hardy. 10c each; \$1.00 doz.  
**Martha (White Concord).** Large, pale yellow; strongly resembles the Concord in all points except color. 15c each; \$1.50 doz.

**Moore's Early.** Ripens ten days earlier than Concord; bunch and berry round and large; black, with a heavy blue bloom. 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.  
**Prentiss.** Bunch large and compact; berry, medium to large, of yellowish green color; skin thin but very firm; sweet, juicy, with a pleasant musky aroma.....25c each; \$2.50 doz.

## RASPBERRIES.

40c per dozen; \$2.00 per hundred.

The Raspberry should be planted in good, rich soil, in rows five feet apart and three feet apart in the rows. As soon as they have done bearing cut out the old wood to give more vigor to the young canes.

**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.  
**Cuthbert.** Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous, perfectly hardy and very productive. Ripens medium to late.

**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.  
**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.

ANY ORDINARY soil will grow strawberries, though the richer it is made the larger the fruit. For garden culture, the most convenient method is to plant in beds four feet wide, three rows in each bed, and plants one foot apart in the row. A pathway two feet wide should be left between the beds, so that the fruit may be easily picked and the bed kept clean without stepping on them. Cover lightly in winter with corn stalks or some coarse litter; rake off in the spring, dress the beds, and mulch with litter or short grass from the lawn. 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.

25c per Dozen; \$1.00 per Hundred; \$7.50 per Thousand.

**Brandywine.** Large, roundish conical; bright, glossy crimson; berries, firm and solid, excellent quality and fine flavor.  
**Bubach No. 5 (P).** Very large and productive, bright scarlet; a fine market variety; early to medium.  
**Enhance.** Large, bright crimson, firm, very prolific.  
**Gandy.** Large, bright crimson, berries of uniform size; plants vigorous and healthy. The best late variety.  
**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.  
**Marshall.** Large, rich crimson, fine flavor. Plant very strong; with high culture produces heavy crops.  
**Oriole (P).** Large, deep red, rich aromatic flavor, firm, and a good shipper; extra early; productive.  
**Parker Earle.** Large, rich crimson, conical shape, excellent shipper; strong, vigorous grower; very productive; late variety.  
**Wm. Belt.** Large, brilliant red, extra fine quality. The plant is vigorous and thrifty, and very productive.

## DECIDUOUS TREES.

For Lawn or Street Planting.

	EACH.	DOZ.
<b>Beech, Purple Leaved.</b> 4 to 6 feet.....	\$0 75	\$ 7 50
<b>Birch, European.</b> White. 8 to 10 feet.....	50	5 00
<b>Birch, Cut Leaved.</b> 7 to 9 feet.....	75	7 50
<b>Catalpa (Speciosa.)</b> 10 to 12 feet.....	60	6 00
<b>Cherry, Double Flowering.</b> 4 to 5 feet.....	60	6 00
<b>Elm, American.</b> 7 to 8 feet.....	75	7 50
<b>Elm, Purple Leaved.</b> 8 to 10 feet.....	1 00	10 00
<b>Elm, Weeping.</b> .....	1 00	10 00
<b>Horse Chestnut.</b> 5 to 6 feet.....	75	7 50
<b>Horse Chestnut, Red Flowering.</b> 4 to 5 feet.....	1 00	10 00
<b>Horse Chestnut, Dwarf.</b> 2 to 3 feet.....	75	7 50
<b>Kentucky Coffee Tree.</b> 4 to 6 feet.....	60	6 00
<b>Linden, American.</b> 8 to 10 feet.....	75	7 50

	EACH.	DOZ.
<b>Liquid Amber (Sweet Gum.)</b> 6 to 8 feet.....	\$0 75	\$7 50
<b>Magnolia Acuminata.</b> 6 to 8 feet.....	75	7 50
<b>Maple, Norway.</b> 10 to 12 feet.....	75	7 50
<b>Maple, Rock or Sugar.</b> 10 feet.....	75	7 50
<b>Maple, Silver Leaved.</b> 10 to 12 feet.....	60	6 00
<b>Maple, Weir's Cut Leaved.</b> 8 to 10 feet.....	75	7 50
<b>Mountain Ash, European.</b> 10 to 12 feet.....	60	6 00
<b>Mountain Ash, Oak Leaved.</b> 6 to 8 feet.....	60	6 00
<b>Mountain Ash, Weeping.</b> .....	75	7 50
<b>Poplar, Carolina.</b> 10 to 12 feet.....	60	6 00
<b>Salisburia (Maiden Hair.)</b> 6 to 8 feet.....	75	7 50
<b>Thorn, Double Flowering Crimson.</b> 2 to 3 ft..	60	6 00
<b>Tulip Tree.</b> 8 to 10 feet.....	75	7 50

## NUT BEARING TREES.

	EACH.	DOZ.
<b>Almonds.</b> Hard and soft shell. 3 to 4 feet.....	\$0 50	\$5 00
<b>Chestnut, American.</b> 6 to 7 feet.....	50	5 00
<b>Chestnut, Spanish.</b> 4 to 6 feet.....	75	8 00
<b>Hickory.</b> Shell bark. 3 to 4 feet.....	75	8 00

	EACH.	DOZ.
<b>Pecans.</b> 3 to 4 feet.....	\$0 75	\$8 00
<b>Walnuts, English.</b> 2 to 3 feet.....	75	8 00
<b>Walnuts, Black.</b> 6 to 8 feet.....	75	8 00
<b>Walnuts, White (Butternut.)</b> 5 to 6 feet.....	50	5 00

## EVERGREENS.

	EACH.	DOZ.
<b>Arbor Vitae American.</b> 1½ to 2 feet.....	\$0 20	\$2 00
" " " 2 to 3 feet.....	30	3 00
" " " 3 to 4 feet.....	40	4 00
" " <b>Chinese Compacta.</b> 2 to 3 feet.....	50	5 00
" " <b>Elegantissima.</b> 2 to 3 feet.....	40	3 50
" " <b>Golden (Aurea.)</b> 1½ to 2 feet.....	50	5 00
" " <b>Pyramidalis.</b> 2 to 3 feet.....	40	3 50
" " <b>Siberian.</b> 1½ to 2 feet.....	40	3 50
" " <b>Tom Thumb.</b> 1 to 1½ feet.....	40	3 50

	EACH.	DOZ.
<b>Balsam Fir.</b> 4 to 5 feet.....	\$0 50	\$5 00
<b>Irish Juniper.</b> 3 to 4 feet. Extra fine.....	50	5 00
<b>Scotch Pine.</b> 2 to 3 feet.....	50	5 00
<b>White Pine.</b> 2 to 3 feet.....	50	5 00
<b>Norway Spruce.</b> 3 to 4 feet.....	40	4 00
<b>Norway Spruce.</b> 4 to 5 feet.....	60	6 00
<b>Colorado Blue Spruce.</b> 2 to 3 feet.....	75	8 00
<b>Hemlock Spruce.</b> 1½ to 2 feet.....	50	5 00

## GRASS AND CLOVER SEEDS.

This department has been our leading specialty for years, and owing to our increasing trade we have been compelled to increase our already large quarters — have purchased and fitted up new warehouses and cleaning departments at 328, 330 and 332 East Front Street. They are modern in every particular and fitted up with the latest improved cleaning machinery.

Situated on the Penn. R. R. Co. tracks, with a switch into the warehouses, thereby enabling us to load and unload cars inside our own buildings.

Our facilities for handling and recleaning seeds are the most approved in the country, and therefore we are in position to give our customers the best service, both as to quality and promptness in filling orders and at least expense.

Our aim has always been to furnish the best qualities, procured directly for us by our representatives at the most reliable sources of supply now known.

We are pleased to announce that considerable of this season's crop of Clover and Grass Seeds is of superior quality, and as usual we have secured ample stocks of High Grade Seeds of Unexcelled Purity and Strong Germination, which places us in position to meet reliable competition from any source.

We shall always be pleased to mail samples for comparison.

Our prices are always as low, quality considered, as any house in the trade.

All orders with cash filled at lowest market prices on day of receipt. Where no prices are given, market rates will be charged, or special prices will be quoted on application.

We are not only sellers of seeds, but are the largest buyers in this section, and will always pay the highest market prices, quality considered.

Owing to the varying bulk of Grass Seeds from season to season (owing to climatic conditions, which can not be controlled), they are always put up by us by weight and not by measure, thereby securing to our customers the amount they pay for, as prices are based on weight and not on bulk. The number of pounds to the bushel, in brackets, is the old way of offering grasses, and is mentioned merely for reference.

Two-bushel seamless bags at 15 cents each.

### ADD 10 CENTS PER POUND EXTRA IF SENT BY MAIL.



Italian Rye Grass.

**Awnless Brome Grass** (*Bromus Inermis*). A hardy perennial, standing extremes of heat, cold and drought better than any other of our cultivated grasses. It has been found to do well in the North-west and Canada. In the South it remains green all winter. It grows with wonderful rapidity, and produces heavy hay crops and luxuriant pasture. It will grow well on all kinds of soil, even on yellow sand, although, of course, on this it does not produce so abundantly; but even under these less favorable conditions it gives a very large yield. All kinds of stock eat it greedily, and the analysis made shows that it is exceedingly rich in flesh-forming ingredients. The seed should be sown as early in the spring as the ground can be worked. (10 lbs. per bushel.) Sow 35 to 40 pounds to the acre..... 20c lb., \$1.50 for 10 lbs., \$12.50 per 100 lbs.

**Bermuda Grass** (*Cynodon Dactylon*). A valuable grass for the South and for tropical climates. It will not endure frost. Sow 6 to 8 lbs per acre. 75c per lb.

**Creeping Bent** (*Agrostis Stolonifera*). A variety of English Bent. Valuable in mixture with other grasses for lawns, etc. Suitable also for moist localities. (12 lbs. per bush.) Sow 30 lbs. per acre. 25c lb., \$2.00 for 10 lbs., \$17.50 per 100 lbs.

**Crested Dogtail** (*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 and little affected by extremes of weather. Sheep fed in pastures where this abounds are less subject to foot rot. It is tender and nutritious, and relished by all stock. (21 lbs. per bushel.) Sow, if alone, 35 pounds per acre..... 45c per lb., \$4.00 for 10 lbs.

**Fowl Meadow** (*Poa Serotina*). A valuable grass for wet meadows, where it will produce large crops of excellent hay after it has become well established. It thrives on such lands as are occasionally overflowed, but will not endure to remain under water for a long period, especially in hot weather. (10 lbs. per bushel.) Sow 20 lbs. per acre..... 25c lb., \$2.25 for 10 lbs., \$20.00 per 100 lbs.

**Italian Rye Grass** (*Lolium Italicum*). Biennial. Height, 18 to 30 inches. A variety unequaled for producing an abundance of nutritious feed in the early spring, as well as throughout the season, and it gives quick and successive growths until late in the fall, even if cut several times, providing the land is in good condition and not too dry. It is of succulent character and quick-

ly responds to rich food and moisture. As it is not perennial, it is not adapted for permanent pastures, but for one or two years' lay it is unsurpassed. Sow, if alone, 55 lbs. per acre. (18 lbs. per bushel.) 10c lb., 85c for 10 lbs., \$7.00 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., \$1.15 for 10 lbs.

**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, from an average dry one to moist meadows, and as a pasture grass is indispensable. It is very productive, unusually early, and presents a beautiful green appearance in early spring, while other grasses are yet dormant. It makes a splendid lawn grass, forming a thick turf, and being of very even growth, producing only one flowering stem a year, while many other grasses continue to shoot up flower stalks throughout the season. Kentucky Blue Grass also makes hay of excellent quality, but the yield for this purpose is not equal to some other grasses. Sow, if alone, 40 lbs. per acre. (14 lbs. per bushel.)

Fancy clean seed, 15c lb., \$1.25 for 10 lbs., \$11.00 per 100 lbs.

Extra clean seed, chaff, 10c lb., 75c for 10 lbs., \$5.00 per 100 lbs.

**Meadow Fescue** (*Festuca Pratensis*). (Erroneously called English Blue Grass) A highly valuable species for permanent grass land. It does not, however, attain its full productive power till the second or third year, when it far exceeds most other sorts in quantity of its produce and nutritive matter. It is 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.

**Meadow Soft Grass** (*Holcus Lanatus*). Inferior to many other sorts, but of easy culture, and accommodates itself to all descriptions of soils, producing a fair crop under unfavorable circumstances. Sow 25 lbs. to the acre. (7 lbs. per bushel.)..... 15c lb., \$1.25 for 10 lbs.

**NOTE.**—We are prepared to make up special mixtures of Grass Seeds for particular purposes, situations or conditions; correspondence regarding such will receive prompt attention.

Prices subject to market changes. We will be pleased to send samples and quote lowest market prices.



Meadow Fescue Grass.

**GRASS AND CLOVER SEEDS.—Continued.**



**Hard Fescue Grass.**  
 Resembles Timothy, but flowers much earlier, and it is particularly valuable as a permanent pasture grass, being of very early and rapid growth.



**Perennial Rye Grass.**



**Tall Meadow Grass.**

**Red Top Grass (Agrostis Vulgaris, Herds Grass, Quick Grass).** Perennial, height 1 to 2 feet. Valuable either for lawn mixtures, mixing in hay, or permanent pasture grasses; is common throughout the country; 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. 75c for 10 lbs. \$7.00 per 100 lbs.**  
**Fancy Pure Seed.** Weight about 32 lbs. per bushel. Sow 10 to 12 lbs. per acre. 15c lb., \$1.00 for 10 lbs., \$9.00 per 100 lbs.

**Rhode Island Bent (Agrostis Canina).** A fine and very permanent 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 odoratum).** For a mixture with pasture grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dried, thus sweetening hay. Sow 3 to 5 lbs. per acre with other grasses. .... 90c lb., \$8.50 for 10 lbs.

**Sweet Vernal Grass, Annual (Anthoxanthum odoratum puelli).** Much smaller than the perennial. .... 15c lb., \$1.40 for 10 lbs.

**Tall Meadow Oat Grass (Avena Elatior).** This is a perennial grass has broad, flat leaves and grows about three 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., \$1.75 for 10 lbs.

**Timothy (Phleum Pratense, Herd's Grass, Cat's-tail Grass).** This grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances. Market price.

**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 pounds to the acre. .... 45c lb., \$4.25 for 10 lbs.

The prices quoted are subject to market fluctuations. Customers when in need of large quantities, send list of wants for lowest market price.

**Hard Fescue (Festuca Duriuscula).** Perennial, height 12 to 24 inches. Thrives well in dry situations, where many other grasses would fail, thus making it a desirable pasture variety. The common name solely applies to the flower heads, which when ripe, become hard; the herbage, however, is decidedly tender. 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 six to twenty inches. This grass grows naturally on light, dry, sandy soils. Being succulent and nutritious it should always enter into the composition of sheep pastures, as they are very fond of it. Weight, about 14 pounds per bushel. Sow 30 pounds per acre. .... 20c lb., \$1.50 for 10 lbs.

**Fine-Leaved Sheep's Fescue, (Festuca ovina tenuifolia).** Perennial, height varies from 8 to 24 inches. This is similar to the Sheep's Fescue mentioned above except that the leaves are much finer. It is very suitable for permanent pasture, especially on upland and dry soils. Its rich dark green gives a fine appearance to hay, and renders it also valuable for lawn mixture for dry situations. 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. In such soil it yields heavily and is valuable in grass mixtures for permanent meadows, either for mowing or grazing. Its great production of root leaves makes it an excellent bottom grass. Its nutritive value is said to be very high. 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, and it is particularly valuable as a permanent pasture grass, being of very early and rapid growth. It is highly relished by stock; endures a close cropping, and forms a luxuriant aftermath, and quickly revives after a long drought. Sow, if alone, 25 lbs. per acre. Weight about seven pounds per bushel  
 ..... 25c per lb., \$2.25 for 10 lbs.

**Orchard Grass (Dactylis Glomerata Rough Cocksfoot).** Perennial, height three 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., \$1.60 for 10 lbs.

**Perennial, or English Rye Grass (Lolium perenne, Imported English Blue Grass).** Height 15 to 24 inches. This grass is 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; it consequently is well adapted for lawn mixtures. It is 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, 2½ lbs. per bushel  
 ..... 10c lb., 80c for 10 lbs., \$7.00 per 100 lbs.



**Meadow Fox-Tail Grass.**



**Orchard Grass.**

Add Ten Cents Per Pound Extra if Sent by Mail.

**MIXED GRASSES For Special Purposes.**

Under this head we are prepared to furnish seeds adapted to all soils and all situations and for all purposes, composed of grasses for light soils, for medium soils and for 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 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 BUSHEL.		PER BUSHEL.
Mixture for meadows, first quality .....	\$2 00	Mixture for pasture and hay in orchards and other shady	
" " " second " .....	1 60	places, second quality .....	\$1 60
" " permanent pasture, first quality .....	2 00	" " marshy grounds, first quality .....	1 75
" " " second " .....	1 50	" " " second " .....	1 40
" " pasture and hay in orchards and other shady		" " sandy and rocky grounds, first quality .....	1 75
places, first quality .....	2 00	" " " " " second " .....	1 40

**MILLETS.**

Sow at rate of one bushel per acre.

**Tennessee or German Golden Millet.** True Southern Grown Seed is worth double that of Northern or Western Grown, if you want a good crop of hay or seed. 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. This is due to the fact that German Millet is a native of a warm climate.

**The True Tennessee Millet** is planted in drills and cultivated with a view of getting the best results in quality and quantity of seed. Therefore, we have again secured this season a full supply grown expressly for seed, which we know will give the very best satisfaction to the farmer.....50c peck, \$1.50 bushel.

**Northern or Western Grown Millet** ..... 35c peck, \$1.15 bushel.

**Missouri or Common Millet.**

**Hungarian Grass.** This grass resembles the millet, it is of fine growth, and makes an excellent hay.....50c peck, \$1.50 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 an economical and valuable food for hogs. It is also a good food for birds and poultry .....40c peck, \$1.25 bushel.

**CLOVER SEEDS.**

**Alsike, or Swedish.** (*Trifolium Hybridum*) An excellent variety of luxuriant growth, and very sweet; valuable for pasturage or ensilage. Sow 6 to 8 lbs. per acre.  
20c lb., \$1.80 for 10 lbs., \$15.00 for 100 lbs.

**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 15 to 20 lbs. per acre.  
20c lb., \$1.50 for 10 lbs., \$14.00 per 100 lbs.

**Bokhara Clover.** (*Melilotus Alba*.) A rapid-growing, white-flowered sort; a good bee food. Sow 10 to 15 lbs. per acre .....20c lb.



Tennessee or German Golden Millet.

One-third natural size.



One-third natural size.

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

**Red Clover.** (*Trifolium Pratense*.) In ordering always state quality desired, otherwise will send the best. 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 Esparsette** (*Onobrychis Sativa*.) A perennial, the duration of good crops being about eight years. Grows two or 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. Sow 10 to 15 lbs. per acre,  
10c lb., 90c for 10 lbs., \$8.00 per 100 lbs.

**White Dutch Clover** (*Trifolium Repens*.) The best variety for lawns, as it forms a close herbage and remains green throughout the season; it is also excellent for bee food. Sow 6 to 8 lbs. per acre.....30c lb., \$1.75 for 10 lbs., \$25.00 for 100 lbs.

**Yellow Trefoil or Hop Clover.** (*Medicago Lupulina*.) Is an excellent fodder plant, mixed with other Clovers or Grasses, but should not be used alone. Sow 10 to 12 lbs. per acre...20c lb., \$1.40 for 10 lbs.

The prices quoted are subject to market fluctuations. Customers when in need of large quantities, send list of wants for lowest market prices.

Add Ten Cents per Pound Extra if Sent by Mail.



White Clover.



# 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, Tares, Field Peas, Rye and Oats, and plowing under when six to eight inches high.

Owing to market fluctuation, impossible to quote prices. When in need, state quantity, and we will be pleased to send samples and quote lowest market prices.

Add ten cents per pound extra if sent by mail.

## 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 clover, they draw from the subsoil to the surface large amounts of both 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 Rhode Island Experiment Station reporting one season seventeen and a half tons, equivalent to  $3\frac{1}{2}$  tons of dried hay.

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

Cow Peas like all other crops thrive best on good ground. The maximum result being obtained from dry sandy loam, but from their strong growth of roots will do well on almost any soil not too wet.

Sow  $1\frac{1}{4}$  to  $1\frac{3}{4}$  bushels per acre, on land thoroughly pulverized, and disk 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 disk 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 Pea belongs to the Bean family, therefore must not be sown until the ground is thoroughly warm and all danger from frost is past.

**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 much lower price.

**Soja Bean.** This 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 make 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 one to one-and-a-half feet between the plants, dropping two or three beans in each hill, which will require one gallon per acre.

**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.

### VETCHES.

**Vetches—Spring Tares.** (*Vicia sativa*.) Sown broadcast at rate of 1 to  $1\frac{1}{2}$  bushels to the acre, like wheat or barley, and sometimes mixed with oats for soiling. Used in France and Canada as a substitute for peas.

**Sand, Winter or Hairy Vetch.** (*Vicia villosa*.) Thrives on poor, arid, sandy soils. Is sown either in fall or spring, and generally mixed with rye as a support to the plants. Grows to a height of from three to four feet, and can be cut twice for fodder, first as soon as the bloom appears, and then it can be again cut for the seed. The plant is perfectly hardy, and the produce is recommended as most nutritious. Should be sown at the rate of  $1\frac{1}{2}$  bushels to the acre.

**Kaffir Corn.** Produces two to four heads from a single stalk. Stands drought wonderfully, and yields paying crops of grain or forage, even in dry seasons when corn has utterly failed. The whole stalk, as well as blades makes excellent fodder, and all stock eat it greedily. Sow in rows three feet apart, five pounds per acre; broadcast, 15 pounds per acre.

**Wild Rice.** (*Zizania aquatica*.) Valuable as a forage plant on inundated lands and along the shores of marshes. As an attraction for wild fowls it is invaluable. The seed should be sown in the fall in six inches to six feet of water, having soft mud bottoms where there are few weeds.

**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 lbs. per acre.

**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 four pounds of seed per acre.

**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 lbs. to the acre, but is better drilled, in which case 3 lbs. to the acre will suffice. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it; all reports agree that they gain weight faster on this than on any other fodder, as it can be sown after other crops are off; the gain in fodder is secured at a nominal cost. Stockmen, Dairy-men and Farmers have proved its value.

### OATS.

Broadcast two to three bushels to the acre.

**White Bonanza.** One of the earliest and best Winter Oats; very prolific.

**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.

**White, Black, also Mixed.**

### BUCKWHEAT.

Should be sown about the middle of June, broadcast, using from three-quarters to one 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.

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

### SORGHUM, OR SUGAR CANE.

Plant in drills three quarters to one bushel; broadcast, 1 to  $1\frac{1}{2}$  bushels to the acre.

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 food 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 the Amber.

**Early Amber Cane.** This popular and well-known variety is the earliest, and makes the finest quality of both sugar and syrup.

### BROOM CORN.

Plant eight to ten quarts to the acre.

**Improved Evergreen.** The best for general cultivation; brush firm, of good length, and bright green color.

**Dwarf.** Grows from three to four feet high, with straight, smooth brush.

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

# SELECTED SEED POTATOES.

(Kartoffel, Ger.)

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 2¾ bushels each.

**Bovee.** Extra early, very productive, of fine quality; flesh white and very dry. . . . 40c peck; \$1.15 bushel; \$3.25 barrel.  
**Early Six Weeks.** Extra early, tubers oblong in shape; flesh solid; cooks dry and mealy. . . . 40c peck; \$1.25 bushel; \$3.35 barrel.  
**Early Ohio.** A seedling of the Early Rose, a week earlier, of excellent quality. Tubers round and oblong in shape; flesh solid; cooks dry and mealy. . . . 40c peck; \$1.25 bushel; \$3.35 barrel.  
**Early Rose.** The leading variety for earliness and productiveness. . . . 40c peck; \$1.10 bushel; \$3.00 barrel.  
**Triumph.** Extra early, fine bright red skin, white flesh. . . . 45c peck; \$1.40 bushel; \$3.85 barrel.  
**Early Beauty of Hebron.** Ripens with the Early Rose, and equally as valuable as a market variety. . . . 40c peck; \$1.10 bushel; \$3.00 barrel.

**Burbank's.** A white-skinned, medium early variety, with few eyes; flesh fine grained and of excellent flavor; producing a large crop of marketable potatoes. . . . 30c peck; 90c bushel; \$2.60 barrel.  
**Chicago Market.** Very popular, early, good quality, and yields well. . . . 40c peck; \$1.10 bushel; \$3.00 barrel.  
**White Star.** Medium early, a very large cropper, fine, floury texture and delicious flavor, being unexcelled by any other variety. . . . 35c peck; \$1.00 bushel; \$2.85 barrel.  
**Late Beauty of Hebron.** Remarkably productive, tubers oblong and of extra size; skin and flesh white; table properties good, and keeps well. . . . 40c peck; \$1.10 bushel; \$3.00 barrel.  
**White Elephant.** Late, large, enormously productive, and of excellent flavor; splendid keeping qualities. . . . 40c peck; \$1.10 bushel; \$3.00 barrel.

## Seed Sweet Potatoes.

**Yellow and Red Jersey. Red Bermuda and Southern Queen.** Write for prices. Ready for shipment about April 1st.  
**Artichoke, Jerusalem.** This makes an enormous yield, and a most nutritious and health-preserving hog and cattle feed. They also produce an immense quantity of tops, of which cattle, horses and mules are very fond, and 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 peck; \$1.25 bushel; \$3.00 barrel.

## SPRING WHEAT AND BARLEY.

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

## FIELD CORN SEE PAGE 18.

**Hemp Seed.** We are large handlers of Domestic Hemp Seed and will be pleased to quote market prices upon application. Sow at rate of three quarters to one bushel per acre.  
**Flax Seed.** North-western. Sow at rate of three-quarters to one bushel per acre. . . . Market price.  
**Seed Rye.** North-western. Sow at the rate of one and a half to two bushels per acre. . . . Market price.

The Prices Quoted are Subject to Market Changes. When in Need of Large Quantities, we will be pleased to submit Samples and Quote Lowest Market Price.

## MISCELLANEOUS, BIRD AND SUNDRY SEEDS.

TEN CENTS PER POUND EXTRA, IF SENT BY MAIL,

PER LB.	PER LB.	PER LB.
Black Locust . . . . . 35	Fennel Seed . . . . . 15	Mustard Seed, black . . . . . 10
Honey Locust . . . . . 35	Flax Seed (3 lbs. 25c) . . . . . 10	"    "    crushed . . . . . 10
Castor Beans . . . . . 20	Flax Seed, crushed . . . . . 10	Osage Orange—Bois D' Arc . . . . . 35
Canary Seed (3 lbs. 25c) . . . . . 10	Hemp Seed (3 lbs. 25c) . . . . . 10	Pumpkin Seed . . . . . 15
Mixed Bird Seed (3 lbs 25c) . . . . . 10	Lettuce Seed, for birds . . . . . 20	Rape Seed (3 lbs. 25c) . . . . . 10
Caraway Seed . . . . . 15	Maw or Poppy Seed . . . . . 15	Rough Rice, for Red Birds . . . . . 10
Coriander Seed . . . . . 15	Millet, German or Golden . . . . . 05	Sunflower Seed (3 lbs. 25c) . . . . . 10
Celery Seed, for flavoring . . . . . 15	"    Pearl . . . . . 10	Water Melon Seed . . . . . 15
Cotton Seed . . . . . 20	Mustard Seed, white, for pickles . . . . . 10	

# Seeds of ROOT CROPS for Stock.

## MANGEL WURZEL.

Five to Six Pounds of Seed Required Per Acre.

The importance of this crop for stock cannot be over estimated. 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 yield 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.** Generally grown for agricultural purposes; roots of large size and excellent quality. . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.  
**Yellow Globe.** Of large size and globular form; very productive. . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.  
**Red Globe.** Large, red, oval; keeps well; large crops on shallow soil. . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.  
**Golden Tankard.** Bright yellow, large, handsome, heavy cropper, splendid quality. . . . 15c ¼ lb., 30c lb., \$2.25 for 10 lbs.

## 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 quantity and quality of milk.

**Vilmorin's Improved.** A medium sized white Sugar Beet brought by the most careful selection to the highest perfection, both in shape and color of roots. Greatly esteemed by sugar manufacturers. . . . 15c ¼ lb., 30c lb., \$2.50 for 10 lbs.  
**Lane's Imperial.** One of the best for field culture; early, large and productive. . . . 15c ¼ lb., 30c lb., \$2.50 for 10 lbs.

## CARROTS.

See Page 15.

## TURNIP.

See Page 32.

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.

## FERTILIZERS.

### SHEEP MANURE—El Paso.

This is a pure, natural manure, and a nutritious food for plants. Its effect is immediate, much more lasting and beneficial than guano or any other manure. 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, rivaling guano, without any deleterious effects. 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 from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble, it readily makes a safe liquid manure—one pound to five gallons of water per day can be safely used.

Pulverized, per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; per ton, \$35.00.  
Natural state, not pulverized, 100 lbs., \$1.50; per ton, \$27.00.

### 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.

### 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; 100 lbs., \$3.00.

### BONE MEAL.

This finely pulverized ground bone is excellent for rose culture. It decomposes very rapidly, and is more quickly 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; 100 lbs., \$2.50; 200-lb. bag, \$4.00; per ton, \$35.00.

### BONE, CRUSHED OR COARSE.

This is largely used for pasture lands, being rather slow but permanent in action, and it is indispensable in the grapevine borders—for fruit trees, small fruits, etc.—where a lasting fertilizer is required. Per lb., 5c; 10 lbs., 45c; 100 lbs., \$3.00.

### PERUVIAN GUANO.

One of the most powerful stimulants for plants and growing crops. One pound of Guano to 20 gallons of water will be sufficiently strong for a single watering each week, and more efficient than repeated waterings with weaker solutions. Per lb., 10c; 5 lbs., 40c; 10 lbs., 75c; 100 lbs., \$5.00.

### 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, \$13.50; per ton, \$25.00.

### PACIFIC GUANO.

For several years we have been handling Pacific Guano, and the universal verdict from all who use it is, "It is the best fertilizer we have ever used." Per lb., 10c; 5 lbs., 25c; 25 lbs., 75c; 100 lbs., \$2.00; per bbl. of 250 lbs., \$3.75; per half ton, \$14.00; per ton, \$28.00.

### COTTON SEED MEAL.

This makes an excellent fertilizer for old lawns and meadows, being odorless and free from weed seeds. Apply at the rate of 200 lbs. per acre. Per bag of 100 lbs., \$1.50; per ton, \$26.00.

### LAND PLASTER

Is adapted to a great variety of uses, and sales are largely increasing as its value becomes better known. If applied as a top dressing for Grass and Clover crops in the spring, it greatly increases the growth and yield of same, in fact its use is almost certain to insure a good stand of Clover. If it is 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. Per bbl., about 275 lbs., \$1.35; six bbls. or more, \$1.25 per bbl.

### ANTI-GRUB COMPOUND.

Our attention has been repeatedly called to the fact that during the summer time large patches of our lawns die out without any apparent cause, and upon close and careful investigation we have found that this was largely caused by the old White Grubs, which destroy the young roots and shoots of the grass, with the result that the grass dies, and at the same time they exhaust the soil. To remedy this evil, we have placed upon the market a combination of chemicals that are intended to destroy the Grubs and also supplying a fertilizer calculated to cure sour land and prevent the growth of Moss and Fungi, and supplying all necessary ingredients to produce a luxuriant growth of grass. This mixture has been largely used on our Cemeteries, Parks and Lawns, with most gratifying results. Apply at rate of 200 to 300 lbs. per acre. 50 lbs., \$1.50; 100 lbs., \$2.50.

## FERTILIZER INGREDIENTS.

For the benefit of those who want Fertilizers for special purposes, or for mixing with stable manure, we keep on sale ingredients that contain the elements to make complete Fertilizers, viz: Nitrogen, Potash, and Phosphoric Acid. The ingredients we sell contain these elements in most available form for plant food.

**Nitrate of Soda.** A natural product of the mines of Chili, South America. Contains sixteen per cent. Nitrogen, equal to twenty per cent. Ammonia. Send for special pamphlet giving full directions for use. . . . . Price per 100 lbs., \$3.50.

**Kainit.** A natural product of the mines of Germany, containing nearly thirteen per cent. pure Potash, also a large percentage of Magnesia, Sulphate of Lime and Salt. Mixed with stable manure, 1½ pounds per day for each animal, will double the value of the manure, by preventing the waste of the Nitrogen—Ammonia. Use 200 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, made from the deposits of the bones of sea animals. Contains from thirty-eight to forty-three per cent. of available Phosphoric Acid. Use 50 to 60 pounds per acre. Price, \$3.50 per 100 lbs.

Briefly stated, the leading effects of the different fertilizer elements are as follows: Nitrogen (Ammonia) produces a vigorous growth of the plant, and is particularly valuable for all vegetable crops and as a top dressing for grass. Potash and Phosphoric Acid increase the yield and quality of crop products, and should be used on all grain crops.

- Moss Green Sheet.** For hanging baskets, etc. . . . . Per bale, 40c.
- Moss Sphagnum.** For packing plants and growing Orchids, etc. . . . . Per lb., 10c; per bale, \$1.25.
- Peat, Jersey.** Fibrous and rotted. . . . . Per bush., \$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.**



**Nicotinic Fumigator and Lamp.**

and effective method of fumigating green houses and frames ever introduced.....

- Paris Green.** Warranted strictly pure ..... 1 pint, \$2.50; ½ pint, \$1.25; 4 ounces, 70c.
- Persian Insect Powder.** A most effective non-poisonous impalpable powder—so fine that it penetrates the finest crevices—for worms, flies, aphids, and almost all kinds of insects. .... ¼ lb., 10c; ½ lb., 15c; 1 lb., 25c.
- Scrofularia Powder, Hammond's.** For the protection of Carpets and other similar goods against the ravages of the Carpet Beetle or so-called Buffalo Moth ..... ¼ lb., 15c; 1 lb., 50c.
- Slug Shot.** A non-poisonous powder and a very popular insecticide—it requires no further mixing or preparation—easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effective 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.
- Tobacco Dust (Pure).** A sure remedy for green fly, aphids, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For worms or grubs in the soil, apply liberally to the surface and rake in, or strew thickly in the drills before planting ..... 5 lbs., 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, Cut-worms, 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 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 a lawn during winter. The best quality stem supplied. Per lb., 5c; bbl., \$1.00; bales of about 125 lbs \$1.50.
- 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; quart, 50c; gallon, \$1.50; 5 gallons, \$5.00.
- Whale Oil Soap.** For destroying insects on plants, trees, vines, etc.; for washing down the bark of trees, grape vines, etc. .... ½ lb., 10c; 1 lb., 15c; 5 to 50 lbs., 12½c per lb., 50 lbs., 10c or over, 9c lb.
- Ottwell's Tree Paint.** (A protection to fruit and ornamental trees.) It kills Aphids, Bark Lice, Borers and all kinds of tree enemies that attack the body or vital part of the trees. Prevents sun scald, one of the most damaging affections to young fruit or shade trees ..... ½ gallon, 60c; 1 gallon, \$1.00.

If sent by Mail, add 15 Cents per Pound Extra for Postage.

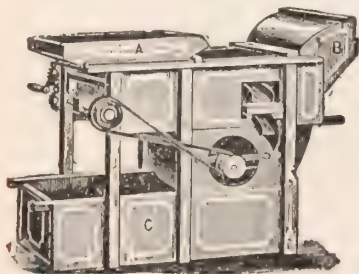
**WIRE FOLDING PLANT STANDS.**

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	7½	inches wide	x	30	inches long.	\$3.00	
2	"	7½	"	"	x	30	"	2.25
1	"	10	"	"	x	38	"	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 certain between window and plants.

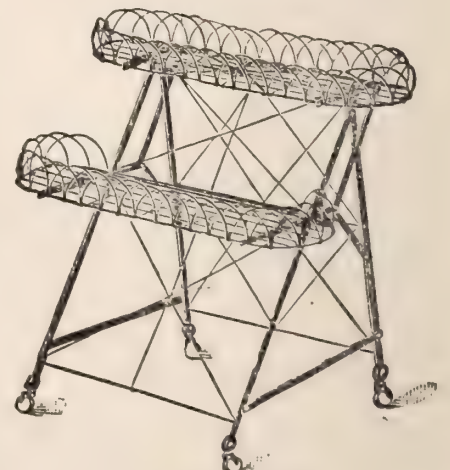
- 36 inch Shelf, by 7½ inches wide, with Brackets complete. \$.90
- 42 inch Shelf, by 7½ inches wide, with Brackets complete. 1.00



**Clipper Seed and Grain Mills.**

These mills are especially adapted for cleaning Grain, Clover and Timothy seed.

- No. 1. For Grain and Seed, complete...\$20 00
- No. 2. For Seed only..... 30 00
- Extra Set of Screens for Grain, for No. 2, Mill. ....\$3.50



**Wire Flower Stand.**

Descriptive circulars and prices for larger sizes for either hand or power, sent on application.

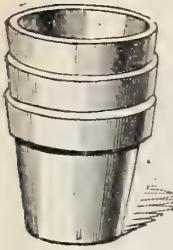
**BLUE GRASS STRIPPERS.**

A man can strip 20 bushels of seed per day with it, weight 4 pounds ..... \$1.50.

# 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.
2-inch	2c	15c	\$0.80
2½-inch	2c	20c	1.00
3-inch	3c	25c	1.25
3½-inch	3c	25c	1.50
4-inch	5c	30c	1.75

	EACH.	DOZ.	PER 100.
5-inch	5c	40c	\$ 2.50
6-inch	5c	55c	4.00
7-inch	8c	80c	6.00
8-inch	12c	1.25	8.00
9-inch	15c	1.50	12.00

	EACH.	DOZ.
10-inch	20c	\$ 2.25
12-inch	40c	4.50
14-inch	90c	9.50
16-inch	1.50	17.00

## SAUCERS.

	EACH.	DOZ.	PER 100.
4-inch	3c	25c	\$1.50
5-inch	3c	25c	1.75
6-inch	4c	35c	2.50

	EACH.	DOZ.	PER 100.
7-inch	5c	45c	\$3.00
8-inch	7c	60c	4.50
9-inch	10c	75c	5.50

	EACH.	DOZ.
10-inch	10c	\$0.90
12-inch	15c	1.50

## 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.
5-inch	5c	\$0.40	
6-inch	5c	55	

	EACH.	DOZ.	PER 100.
8-inch	12c	\$1.25	
10-inch	20c	2.00	

	EACH.	DOZ.
12-inch	30c	\$3.25

## FERN PANS.

These Pans are especially adapted for linings to Porcelain and Silver Fern Pans.

	EACH.	DOZ.
5½-inch	5c	\$0.50
6¼-inch	7c	75

	EACH.	DOZ.
7-inch	10c	\$0.90
8-inch	12c	1.20

	EACH.	DOZ.
9-inch	15c	\$1.50
10-inch	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.

Size, 4 inch	Each, 7c	Doz., 75c
5	8c	80c
6	8c	85c
7	9c	90c
8	9c	95c

Size, 10 inch	Each, 10c	Doz., \$1.05
12	15c	1.35
14	25c	2.25
16	35c	4.00
18	40c	4.50

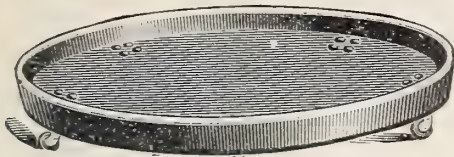


Fibrotta Saucers.

## Fibrotta Rolling Stands

For heavy plants and Palms; will not soak or rust. Casters have ball bearings and have hardwood rollers. Rolling stands all have heavy deep saucers, and will carry all the weight usually put in large pots for Palms, Rubber Plants.

12 inches diameter, 3 Casters	50c	18 inches diameter, 4 Casters	\$0.90
14 " " 3 " "	60c	20 " " 4 " "	1.00
16 " " 4 " "	75c	22 " " 5 " "	1.25

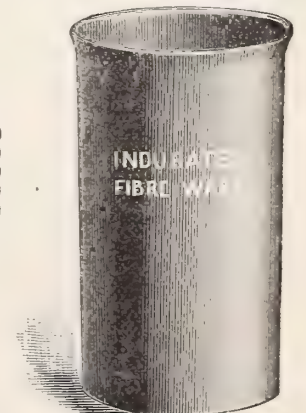


Fibrotta Rolling Stand.

## Florist's Vases for Displaying Cut Flowers.

Made of Indurated Fibre; used now in immense quantities all over the country.

NO.	DIAM.	DEPTH.	EACH.	DOZ.	NO.	DIAM.	DEPTH.	EACH.	DOZ.
0	8 inches.	13 inches.	40c	\$4.80	00	9 inches.	22 inches.	75c	\$9.00
1	5½ "	10 "	35c	4.20	11	5½ "	18 "	45c	5.40
2	4½ "	9 "	30c	3.60	22	4½ "	15 "	40c	4.80
3	4 "	6 "	25c	3.00	33	4 "	12 "	35c	4.20
4	3 "	4½ "	20c	2.40	44	3 "	9 "	30c	3.60



INDURATED FIBRE WARE

## FIBROTTA PLANT TUBS.

A new Plant Tub; is lighter, cleaner, dryer and better than the wood tub.

No. 1. 12½ inches in diameter, 10 inches high ..... \$0.75

No. 2. 13½ inches in diameter, 12 inches high ..... 1.00

## Union Cypress Plant Tub.

An excellent new tub, cheap, neat and durable. Made from 7/8 inch Cypress, with iron handles, iron feet, 3 iron hoops and 2 coats of green paint.

No. 1.	13 inches diameter, 11 inches high	\$0.70
No. 2.	14½ " " 13 " "	1.00
No. 3.	16 " " 15 " "	1.25
No. 4.	20 " " 18 " "	2.00
No. 5.	24 " " 21 " "	2.50

## 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.



Columbia Plant Tub.

## LAWN MOWERS.

### 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, 6½-inch cylinder. Single Pinion, geared on both sides. The greatest diameter of cylinder, with five blades, insures fine cut, and, with its large driving wheels, is light running.

14 in., \$6.00; 16 in., 6.60;

18 in., \$7.25; 20 in., \$8.25.

**Style C.**—4 blades, 8½-inch wheel, 5¼-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., \$5.00; 16 in., \$5.75;

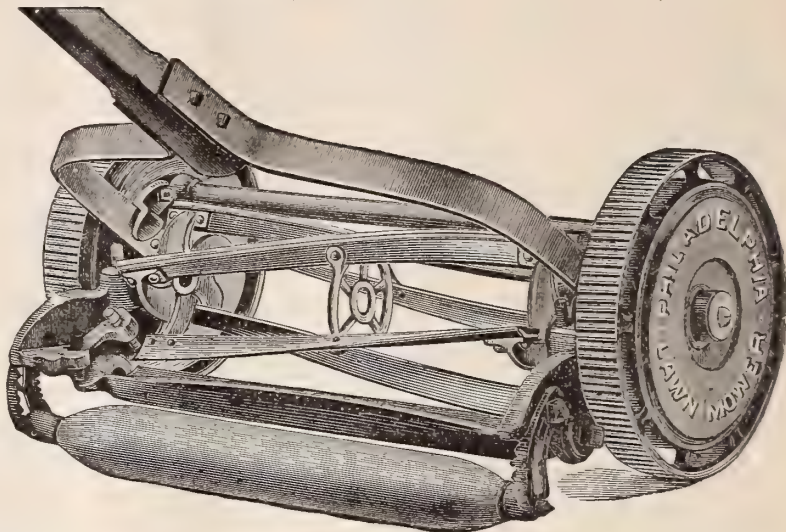
18 in., \$6.25; 20 in., \$7.00.

**Style M.**—3 blades, 7-inch wheel, 5¼-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., \$5.00; 16 in., \$5.75;

18 in., \$6.25; 20 in., \$7.00.

**CADET LAWN MOWER.**—14 in., \$3.00; 16 in., \$3.25.



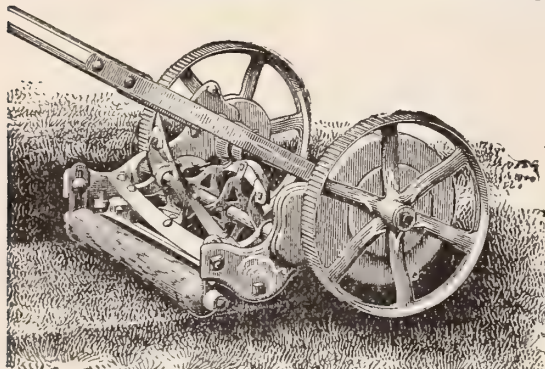
### Coldwell's Ball-Bearing Lawn Mower.

Ball-Bearing Lawn Mowers have not been a general success, for the reason that the bearings wear out faster than other bearings, and the adjustments are too intricate for the average user of a lawn mower. We have invented a ball-bearing which effectually overcomes both of these objections.

The cups, cones and balls used in this Mower are turned down from tool steel, and are tempered to a degree of hardness that insures durability.

We guarantee it to do a greater variety of work and do it easier than any other Ball-Bearing Mower now on the market.

Ball-Bearings, Self-Adjusting, Easiest Working, Finest Finished and Longest Lasting—16 in., \$8.00; 18 in., \$9.00; 20 in., \$10.00.



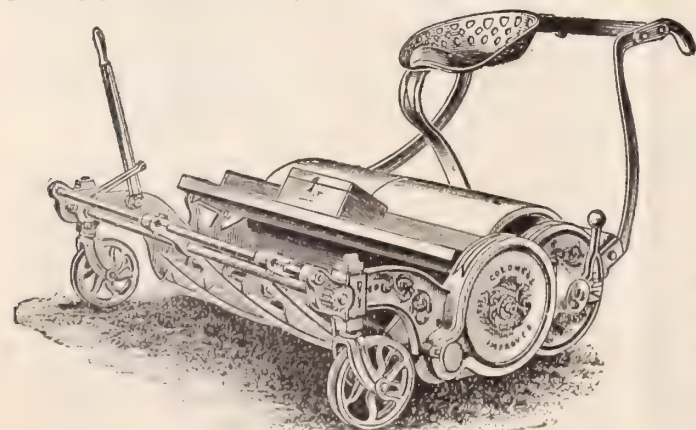
### Coldwell's Imperial High Wheel Lawn Mower.

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. We claim that our Four-Blade High Wheel Imperial embodies the above to a greater degree than any other mower made, and 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., \$7.50; 18 in. \$8.50; 20 in., \$9.50.

### Chain 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. The great advantage of this mower is the substitution of a bicycle chain for the gears generally used in this style of mower. This reduces the friction to a minimum. The machine with six blades is highly recommended by most of the leading golf clubs in America for work on putting-greens. 16 in., \$14.00; 18 in., \$16.00.



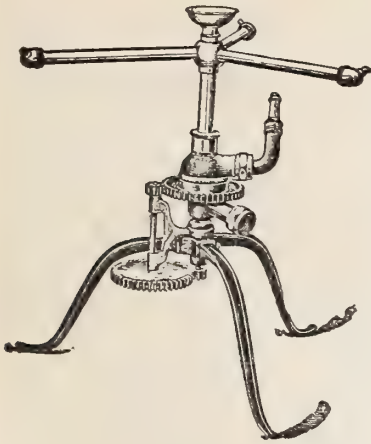
### Coldwell Improved Horse Lawn Mower.

This well known standard Mower has side draft attachment, to enable the horse to walk on the cut grass only, and caster rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads. The mowers are fitted up with steel shafting and composition split bushings, and great care is taken to have the workmanship perfect.

**EACH MOWER IS GUARANTEED TO GIVE ENTIRE SATISFACTION TO THE PURCHASER.**

25 Inch, no shafts, \$38.00; 30 inch, complete, \$65.00;  
35 inch, complete, \$78.00.

## LAWN REQUISITES, Twin Comet Lawn Sprinkler.



Twin Comet.

The globe, or body, of the sprinkler is made in two parts, and by means of the swiftly revolving arms and intermediate gears the upper half is made to revolve slowly, carrying the hose nozzle, from which a full stream of water is thrown far out beyond the sprinkle of the arms.

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. A perforated disc or rosette can be attached in place of the nozzle tip, discharging instead of a solid stream a fine mist at the center of the sprinkle of the arms. With the exception of the legs, all parts are of solid brass, heavily nickled. Will sprinkle four times greater area than any other sprinkler made. Price, \$5.00.

### Rainmaker Lawn Sprinkler.

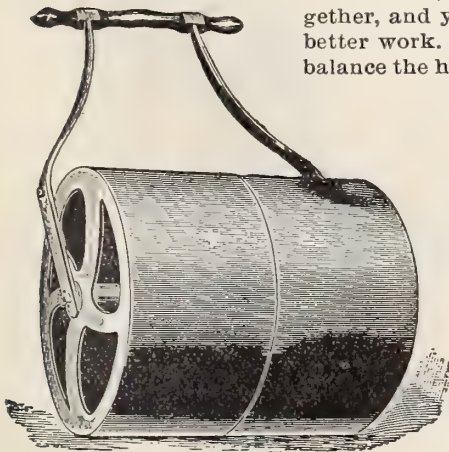
With revolving wings, strongly made. It is by all odds the finest sprinkler of its class on the market. It throws a beautiful spray. Solid brass; nicely finished; base Japanned. The sled enables the sprinkler to be moved about the lawn by the hose, and by a cord attached to hole at rear of sled. Price, \$1.00.



Rainmaker.

### Champion Lawn Rollers.

The cylinders or 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. .... 14.00.

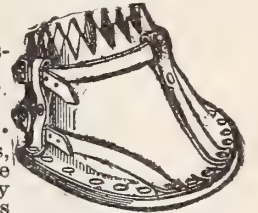
No. 3—2-Section, 24 in. long and 24 in. in diameter; weight about 375 lbs. .... 16.00.

No. 4—3-Section, 36 in. long and 20 in. in diameter; weight about 410 lbs. .... 16.00.

**LAWN RAKES.** Automatic. Self-cleaning, made of best hickory. 26 teeth. 60c.  
Ole Olsen. Made of best hickory. 26 teeth. 50c.  
Lawn King. Made of best hickory. 22 teeth. 35c.  
Wooden. 20 teeth. 30c.  
Lawn Queen, Wire. Is reversible, and can be used for grass or leaves. 24 teeth. 50c.

### Horse Boots.

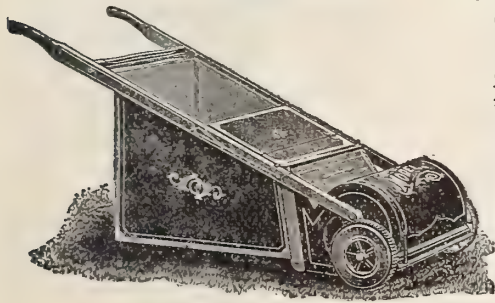
For use on lawn. They are made of strong leather, fastened with copper rivets, and will wear a long time. Per set of 4, riveted, heavy flat soles. .... \$8.00.



### THE MODEL HAND LAWN SWEEPER.

Designed for use on Lawns, Parks, Tennis Courts, etc. The brush revolves very rapidly, throwing the litter backward from its under surface. Immediately behind the brush and parallel with it, a thin shoe passes along over the ground, with its upper surface inclined. If sticks, stones or leaves are encountered, the shoe does not allow them to pass under it, but provides a passage over it into the hopper. The hopper can be dumped or taken out and emptied. It takes only a few minutes to go over a large lawn. The machine weighs 28 lbs., is 25 inches wide, 21 inch brush. Price, \$10.00.

**GRASS CATCHER.—The Triumph.** Is made of strong canvas; gathers all the grass, and can be adjusted to any machine in a moment. No. 1, for 12 to 14-inch machine. 60c. | No. 2, for 16 to 20-inch machine. 75c. No. 3, for 20 to 22-inch machine. 75c.



### LAWN SWINGS.

#### Norwood Two-Passenger Lawn Swings.

The most desirable lawn swing in the market. The seats are large and roomy, so that when they are occupied by two large, long people they are in no manner crowded. The seats have a great range of adjustment. An extra rod (not shown) is placed in the swing bars between the seat and foot rest, so that the foot rest can be raised to adapt the height of the seat to small children. .... Price, \$5.00.

#### Norwood Four-Passenger Lawn Swings.

The strongest and roomiest lawn swing on the market. When four large people occupy it they are not in the least crowded. The frame is made extra heavy and strong. \$6.00.



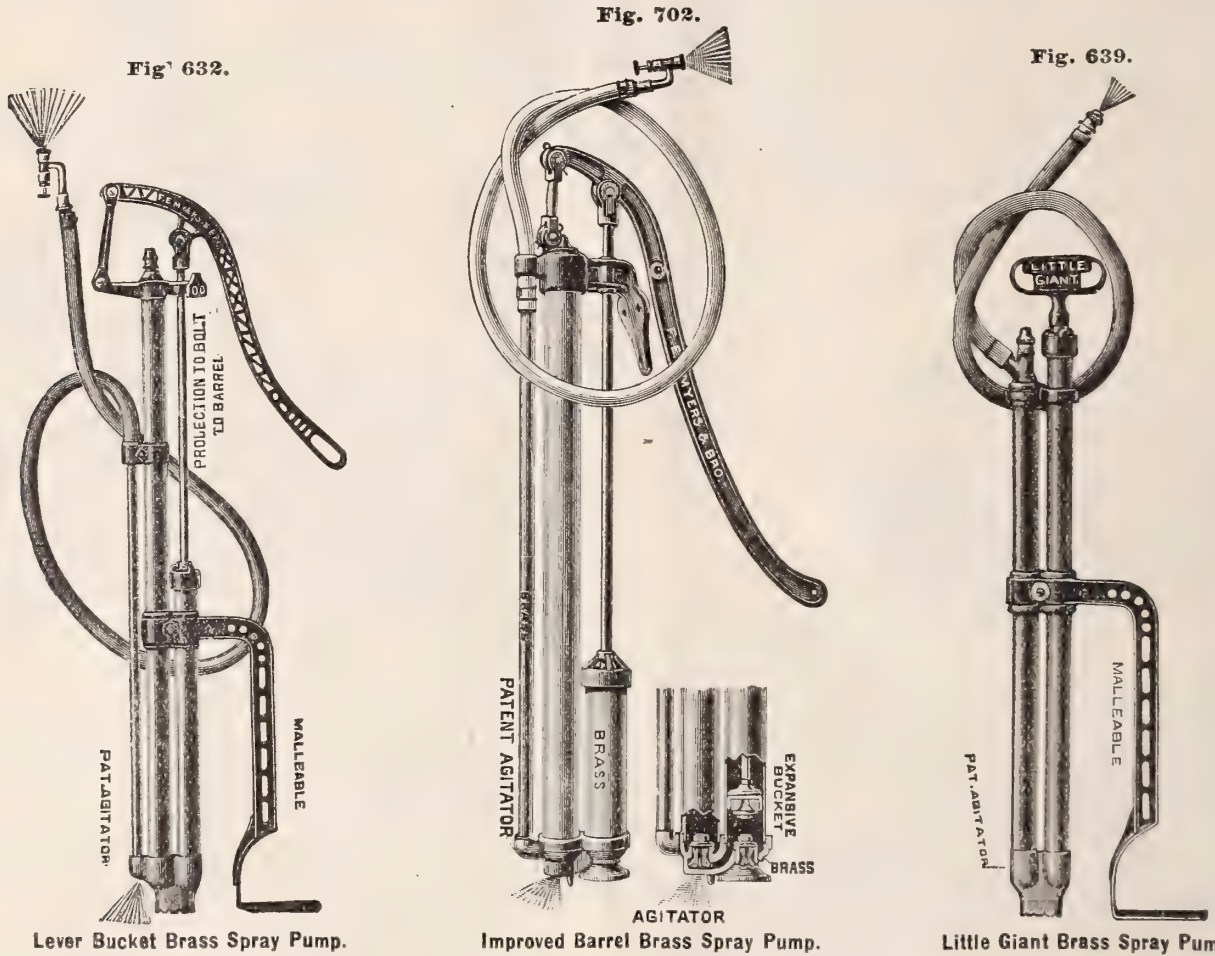
**HOSE, RUBBER.**—In 50 feet lengths.  
Standard Grade, 3-ply, 3/4 inch. .... Per foot, 12c.  
" " " 4 " 3/4 " " " " 14c.  
High Grade 3 " 3/4 " " " " 14c.  
" " " 4 " 3/4 " " " " 16c.  
" Reel. Wooden. .... \$ .75  
" " Iron. .... 2.25  
" Nozzle—Gem. Throwing all variations from fine spray to stream for 3/4 inch hose. .... 50  
" 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. .... 6c each, 60c doz.

# SPRAY PUMPS.

**T**HESE spray pumps are constructed entirely of brass, a material that is not affected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. They are so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position.

They are provided with a large air chamber, and have ball valves; the pressure is held uniformly in the air chamber and on the hose, so that the nozzle throws a continuous spray, and is not affected by the movement of the plunger. The operator is enabled to keep a constant pressure on the nozzle of from 50 to 100 lbs. with very ordinary exertion. Will throw a solid stream 50 feet, and are of unusual value for washing windows, buggies, and extinguishing fires, sprinkling lawns, flowers, etc. For spraying are arranged so as to discharge a fine jet in the bottom of the bucket to keep the solution thoroughly mixed and agitated, a feature peculiar to these pumps only, and a very necessary feature to a spray pump. The pumps are also provided with a sprinkler for flowers.

We advise spraying on clear, bright days during Winter and early Spring, because a stronger solution can be used while trees are dormant, and the San Jose Scale and all other insects can be destroyed more readily than can be done when trees are in foliage.



**Lever Bucket Brass Spray Pump.**—It has all the advantages of the ordinary barrel pump and bucket pump combined, and is sold at a moderate price. Has one-half more air chamber than any other make of bucket pump. Is made of brass with ball valves; handle and foot rest are malleable iron. The work is all done on the down stroke of the handle, and it can be operated with one-third the power required for any other old style bucket spray pump. When used as a barrel pump, detach the foot rest and attach pump to top of barrel. Lever Bucket Brass Spray Pump, with agitator, complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle, also sprinkler. Price.....\$4.00.

**Improved Barrel Brass Spray Pump.**—Improved Barrel Brass Spray Pump, complete with 5 feet of 1/2 inch three-ply discharge hose and Myers' graduating Vermorel nozzle. Price.....\$6.00.

**Little Giant Brass Spray Pump.**—Is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position. Complete with agitator, hose and Imperial combination fine, coarse spray and solid stream nozzle, with malleable foot rest. Price.....\$3.25.

**Extension Pipe, 8 feet, 40 cents.**



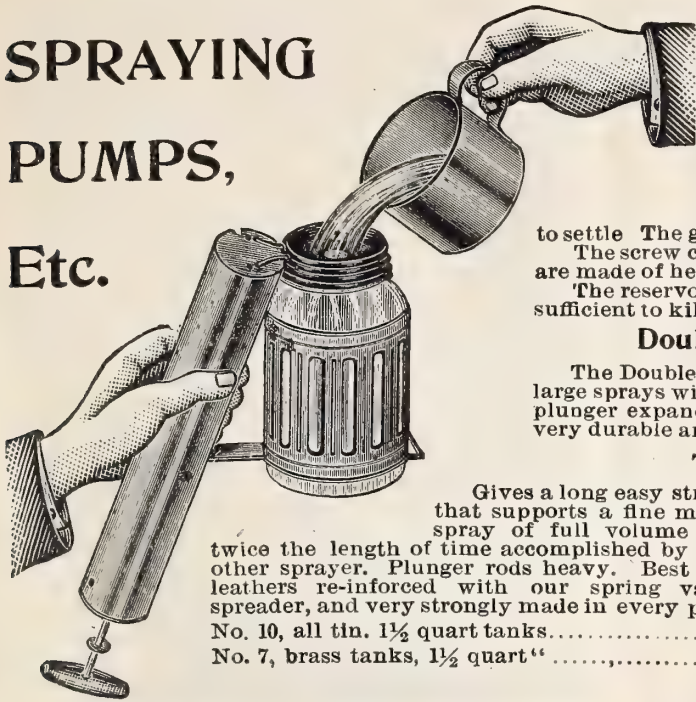
## PIPE EXTENSIONS.

This article seems to be so generally misunderstood that we wish to call particular attention to it. You will readily understand that a fine mist spray cannot be thrown over twelve to fifteen feet, and it is positively necessary that an 8 foot pipe extension be used with each spray pump. By this means the water is carried solid to a distance of ten feet and sprayed from that point, which enables the user to reach the highest tree.

In addition to the above we handle several other styles of Spray Pumps, including Hydraulic Spray Pumps, Double Acting Barrel Spray Pumps, etc. Send for our Special Catalogue.



# SPRAYING PUMPS, Etc.



## Double Tube Lightning Insect Sprayer No. 20.

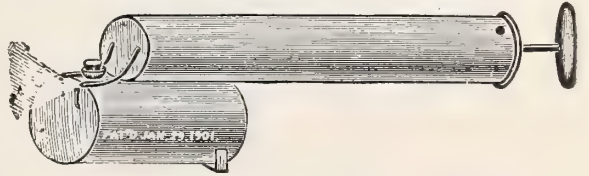
No. 20 Sprayer has detachable glass reservoir provided with patent spring leather plunger expander which at all times keeps the leather washer expanded and will not allow it to wrinkle or dry up. Having a glass reservoir, which is made of the pattern of a Mason fruit jar, and any such will fit this sprayer; being oblong, gives a churning motion while the sprayer is being used, mixing the ingredients—and will not allow Paris Green to settle. The glass sprayer will not corrode or rust out. The screw cap, is made of heavy zinc, and the air chamber and jackets are made of heavy tin, nicely painted a bright red. The reservoir filled with water and a teaspoonful of Paris Green, is sufficient to kill 2,000 hills of potato bugs ..... Price, 75c each.

## Double Tube Lightning Insect Sprayer.

The Double Tube Sprayer covers a radius of 2½ feet, producing two large sprays with one operation; provided with our patent spring leather plunger expander. The reservoir is made of galvanized iron, which is very durable and will not rust..... Price, 50c each.

## The Utica Insect Sprayer.

Gives a long easy stroke that supports a fine misty spray of full volume for twice the length of time accomplished by any other sprayer. Plunger rods heavy. Best calf leathers re-inforced with our spring valve spreader, and very strongly made in every part. No. 10, all tin. 1½ quart tanks..... 50c  
No. 7, brass tanks, 1½ quart..... 75c



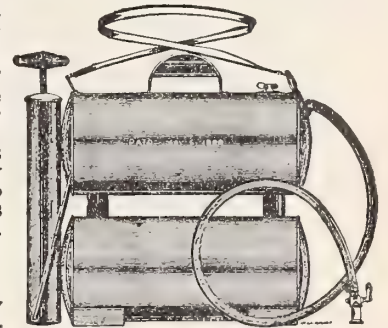
Utica Insect Sprayer.

## Blizzard High Pressure Sprayer.

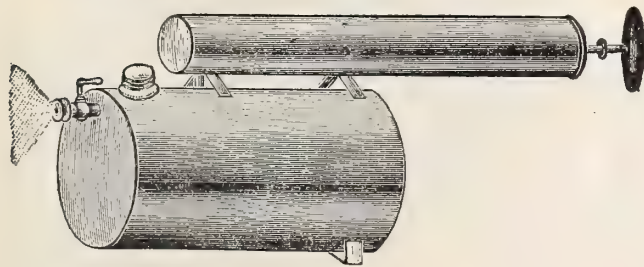
The handiest and easiest working sprayer. Holds one gallon of mixture, and after pumping in a few strokes of air works continuously. Will throw a broad spread mist-like spray; also direct from the stop cock, a course spray ten to twelve feet high, and a straight stream higher. No. 35, Galvanized Iron Tank..... \$1.70

## Double Cylinder High Pressure Sprayer.

Made of heavy galvanized iron, strongly braced and reinforced in every part. Head swell-



arms.



ed and double seamed. Heavy cast brass filler, cap and screw. Strong 2-inch force pump, with heavy rods, best calf leather plunger and spring brass spreaders for leathers. Brass ball check valves. The most perfect working sprayer ever invented. Adapted for all classes of spraying. This sprayer, when filled and charged, which takes half a minute, will spray continuously for 15 minutes, and will throw a stream thirty feet high. It is especially fine for large work in potato fields, vine-yards, tobacco plantations, fruit tree spraying, and green house work. Also for applying disinfectants in barns, etc..... \$4.25.

## Auto Compressed Air Spray.

This is the very best Compressed Air Sprayer now on the market. Will not get out of order. Can be suspended from the shoulder, thus allowing the free use of

*A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. This means that the sprayer can be charged in fifteen seconds, when it will work, uninterrupted long enough to spray a quarter-acre of potatoes.*

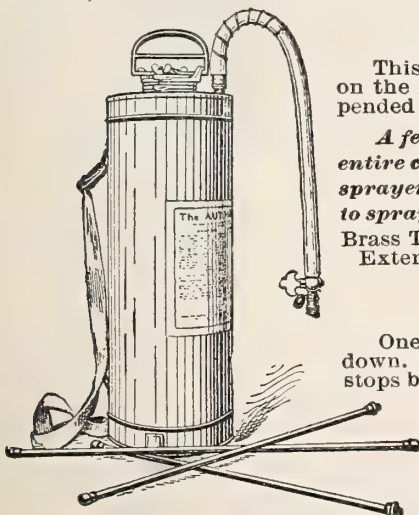
Brass Tank..... \$6.00. Galvanized Steel Tank.....\$4.50.  
Extension pipes, 2 foot lengths, brass, 35c each. Galvanized steel, brass ends, 30c each.

## LENOX KNAPSACK SPRAYER.

For Garden, Field and Small Fruit Culture.

One man does the work of twelve, and need not stoop down. Spray as fast as you walk. No waste whatever. Spray stops by releasing the pressure of the thumb. No machinery to get out of order. Has an agitator on left side to stir the liquid. Never rusts. Never out of order. Adjustable to man or boy. To spray trees and vines turn nozzle up. We recommend it to be the best and cheapest one on the market.... Price, \$3.00 each.

Extra Tube. Rubber bulb and rose to work with both hands, \$1.50. Rubber bulbs, 25c each.



Auto Spray, Compressed Air.



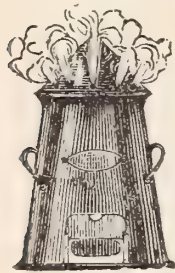
The Lenox Sprayer.

## LADIES' FAVORITE SPRAY.

It throws a beautiful misty spray; fine for window gardening and flowers in the house. Sprays downward or upward, getting on the under side of the leaves. Excellent for tobacco and cigar manufacturers where they need a fine spray..... Price, 90c.

# HORTICULTURAL TOOLS AND SUNDRIES.

BARROWS, GARDEN.	No. 2—Small	\$2.75
"	No. 3—Medium	3.00
"	No. 4—Large	3.50
"	RAILROAD. Patent wheel and bolted	1.75
Baskets, Wire Hanging.	10-inch, 20c; 12-inch, 30c;	
	14-inch, 40c; 16-inch, 50c.	
Bill Hooks	7-inch, \$1.25; 9-inch,	1.75
BELLOWS—Woodason's.	Single cone, small	1.00
"	Single cone, large	2.00
"	Liquid spraying, small	1.50
"	Special sulphur	1.50
"	Acme powder	.75
Bee Smokers.	Clark Smoker	.50
"	Cornell Cold Blast	.75
"	Crane	1.25
	Add 25c to each Smoker if to be sent by mail.	
Canes.	7 to 9 feet long, for plant stakes, per 100	.75
Dibbles.	For transplanting plants	.50
Edging Knife.	For cutting edges of walks and beds	.50
FORKS—Digging or Spading		.85
"	Manure. Cast steel, oval, 5-tine	.70
"	Cast steel, oval, 5-tine, extra heavy	1.25
"	Hand-Weeding. 15c and 35c. (By mail, 10c each extra.)	
"	Hand-Weeding. Imported; small size	.65
"	Imported; large size	.75
	(By mail, 10c each extra.)	
FRUIT PICKERS.	Wire. No. 1, 25c; No. 2	.30

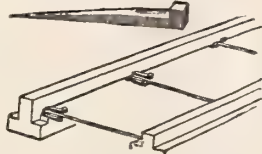


**FUMIGATOR—Perfection.** Made with water tank, which prevents overheating; the vapor assists in the destruction of insects.

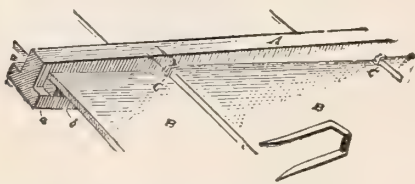
No. 1—Capacity, 8 quarts	3.00
No. 2— " 16 "	3.75
No. 3— " 24 "	4.50

**GARDEN REELS.** Iron; painted. 75  
**LINES.** About 200 feet. 40  
**GLASS CUTTERS—Eclipse.** The best cheap cutter on the market. For all around usefulness we prefer it to a diamond. 20c each; per doz... 2.00

**GLAZING POINTS—Seibert's Zinc.** Are positively the best; last forever; a sure preventive of glass slipping. Effective on large or small glass; easy to drive, easy to extract. 40c per lb. (By mail, 16c per lb. extra.)



**GLAZIERS' POINTS—The Van Ruyper Perfect.** Will stop your glass from slipping; made of galvanized steel wire. No rights or lefts; can be used on either side.



No. 1, for small single-thick glass.  
 No. 2, for large single-thick glass.  
 No. 2½, for double-thick glass.  
 Per 1,000, 60c. By mail, 75c.

**Pincers.** For driving the points, 50c. By mail... 60  
**GRAFTING WAX.** ¼-lb., 10c; ½-lb., 15c; 1 lb. 25  
 (By mail, add 15c per lb.)

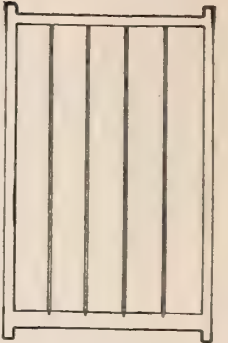
**GRASS HOOKS.** American, plain back... 30  
 " " English, riveted back... 50  
 " " Little Giant... 50

**GRASS CATCHER—The Triumph.** Is made of strong canvas; gathers all the grass, and can be adjusted to any machine in a moment.  
 No. 1, for 12 to 14-inch machine... 60  
 No. 2, for 16 to 20-inch machine... 75  
 No. 3, for 20 to 22-inch machine... 75

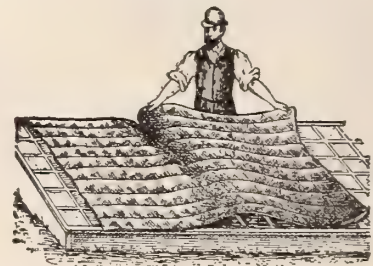
**GUNS, INSECT POWDER.** Cyclone... 10  
 " " Jumbo... 20

**HOES.—Standard Socket Garden**... 40  
 " Ladies' Light Garden... 30  
 " Onion. One end square; opposite end 1 prong... 25  
 " Onion. One end square; opposite end 2 prongs... 30  
 " Grubbing. With handle... 60  
 " Hercules Double Shank. 6 to 9-inch... 35  
 " Perrine Patent. Double shank and curved blade, 6½-inch... 40  
 " Sandusky or German... 45

**HOT-BED SASH, UNGLAZED.** Made from strictly clear cypress lumber, and warranted perfect. Whitelead used on the tendons, and Iron Dowell Pins at the corners.  
 No. 1—3 x 6 ft., 3 rows, 10-inch glass, \$1.45 each; \$16.00 doz.  
 No. 2—3 ft. 3 in. x 6 ft., 4 rows, 8-inch glass, \$1.70 each; \$18.00 doz.  
 No. 3—4 x 6 ft., 5 rows, 8-inch glass, \$2.00 each; \$21.50 doz.



**HOT-BED MATS, STRONG BURLAP.**—Indestructible, cheap and warm. These are made of strong Burlap, warmly lined with waste wool and cotton, which is quilted to hold in position. Warmer than straw, and more easily handled. Do not retain moisture, freeze, rot, mildew or harbor vermin, as straw does.



**Burlap Mats.** 76 x 76 inches... Price, \$1.25 each  
**Waterproof Duck Mats.** 76 x 76 inches... Price, \$1.75 each  
**KNIVES—Pruning**... \$1.25 to \$2.00  
 " Budding... 1.00 to 1.75  
 " Asparagus. American... 40  
 " Potato. Concave, for cutting seed potatoes... 25  
 By mail... 30

**LABELS.** For pots, painted...  
 Per 100. Per 1000.  
 4-inch, \$0.15 \$1.00  
 5-inch, 15 1.15  
 6-inch, 20 1.25  
 8-inch, 50 4.00  
 10-inch, 60 5.00  
 12-inch, 70 6.00  
 " Tree notched, copper wire... 20 1.50

**MASTICA.** For glazing greenhouses. The use of Mastica avoids the necessity of repeatedly reglazing the houses, 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).  
 ½-gallon... 70  
 1 gallon... 1.25

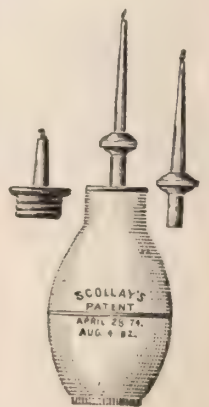


Mastica Machine.

**Mastica Glazing Machine.** (See cut.)... \$1.25

**PUTTY—Twemlow's Liquid Glazing.** For bedding glass in sash or for filling cracks or seams in roof joints or frames of greenhouses 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



# Horticultural Tools and Sundries.—Continued.

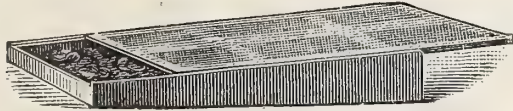
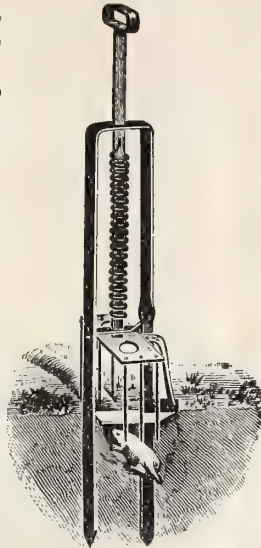
**MOLE TRAP—Reddick.** The best trap on the market. No mole can pass under this trap and live.....75

**MOLE TRAP—Isbell**.....50  
 " " —English.....40

**OIL, LAWN MOWER.** This is a handy can filled with fine oil, manufactured expressly for lawn mowers, bicycles, etc.....15c per can

**OIL, STOP FLY.** To keep flies, mosquitoes and gnats from horses and cattle; also used for spraying and painting in poultry houses. A first-class disinfectant for all farm buildings. Per gallon.....\$1.00

**POTATO HOOKS—4 tine**.....50

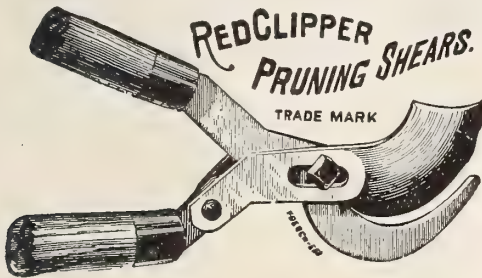


**PLANT BED CLOTH—A** cheap substitute for glass, answering many uses equally well. Light and easily shipped. It is of stout, tarred muslin that sheds water, protects against weather, etc.

**PLANT BED CLOTH—Light Grade.** Per yard.....\$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. Pole, 4 ft., 70c; 6 ft., 80c; 8 ft., 90c; 10 ft., \$1.00; 12 ft. ....1 10  
 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. It is fitted with the best steel machine turned bolt and Norway nut. Best hard maple handles, painted red or shellac. This shear has a slot in blade whereby we get a sliding cut, and the shank of the blade is so constructed as to have a hinge movement, enabling the operator to get a powerful leverage, and to cut a 2-inch limb with comparative ease.

No. 1, \$2.25. No. 2, \$1.75. No. 4, \$1.25.

**PRUNING SHEARS, TIP TOP**.....75c.



**PRUNING SHEARS, HAND.**

German, 8½ inch.....\$0 75  
 French, 8 inches.....1 50  
 Wiss, heavy, extra fine quality, 9 inches.....2 25

**PUMPS—Hand Force. Little Giant.** Brass, fine, coarse and solid stream nozzle, with malleable foot rest.....\$3 25  
 Eight-foot pipe extensions, each.....40  
**PUMPS—Aquapult.** Brass, with stream and spray nozzle.....\$5 00



**RAFFIA.** The best tying material for plants, ..... per lb., 25c; (postpaid 40c); 5 lbs., for \$1.00

**RAFFIA—Colored.** For making baskets and fancy work, Black, Blue, Green, Maroon; Red and Yellow,..... 2 oz., 10c; 1b., 70c.

**RAKES—Steel Garden.** 10-tooth, 40c; 12-tooth, 45c; 14-tooth, 50c; 16-tooth, 60c.

" —Automatic Self-Cleaning. Lawn. Made of best hickory; 26-teeth.....\$0 60  
 " —Ole Oisen. Made of best hickory.....50  
 " —Lawn Queen, Wire. 24-teeth.....50  
 " —Wooden Lawn. 20-teeth.....80  
 " —Lawn King. 22-teeth.....35

**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, 50; large size, 1 25

**SCYTHES—American**.....90  
 " " Weed or brush.....90  
 " —English Lawn. 30 to 36 inches, \$1.25 to.....1 75  
 " —SNATHE. 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

**SILKALINE—For stringing smilax, etc.** Fast green color, will not fade or break. Two oz., spool.....20

**SHEARS—Garden or Hedge.** English. Short handle, 8-inch, \$1.50; 9-inch, \$1.75; 10-inch, \$2.00.  
 Hedge, with notch, 8-inch, \$2.00; 9-inch, \$2.25; 10-inch, \$2.50.

**SHEARS—Grass.** For trimming grass on edges and around flower beds.....50c

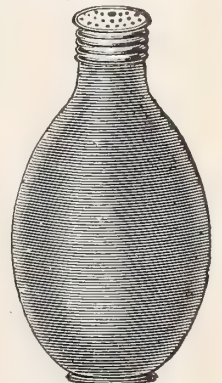
**SHOVELS—Wente.** Square point \$1 00  
 " " Round point 1 00

**SPADES—Wente.** Steel polished 1 00

**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.  
 Smaller size, 50c. By Mail, 55c.

**SYRINGES—Brass.** American Improved.

**Scollay Sprinkler.**  
 No. 10. Barrel, 18 inches long, 1½ inches diameter, 2 spray roses, with patent valves and jet,.....\$5.25.



No. 11. Barrel, 18 inches long, 1½ inches diameter, 2 spray roses and jet.....\$1.50  
 No. 12. Barrel, 14 inches long, 1 inch diameter, 2 spray roses and jet.....\$3.25  
 No. H. Barrel, 16 inches long, 1½ inches diameter, with spray rose.....\$2.50



# Horticultural Tools and Sundries.—Continued.

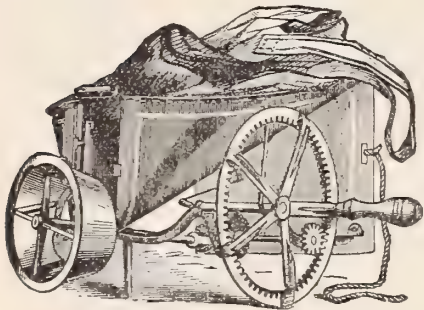
**THISTLE OR DOCK CUTTERS.** Narrow blade, with handle for removing thistles or weeds from lawns—with foot rest ..... 50c  
**TINFOIL—Florist's Foil.** Strictly first-class. Will run more sheets to the pound than any other make. Per lb., 15c  
**TROWELS—English.** The best trowel in the world. It is of one solid piece of steel and will outwear several of the ordinary sort ..... 6-inch, 60c; 7-inch, 75c  
**TROWELS—American.** Solid shank ..... 35c  
 " " Ordinary, .. 6-inch, 10c; 7-inch, 15c

**THERMOMETERS—Japanned. Tin Case.**  
**Common Grade.** 8-inch, 15c; 10-inch, 20c.  
**Medium Grade.** 8-inch, 50c; 10-inch, 60c.  
**Standard Grade.** Made with seasoned tubes; mounted by clasps on heavy metal; very accurate. 8-inch, 65c; 10-inch, 75c; 12-in., \$1.00  
**Maximum and Minimum Self Registering.** \$3.00  
**Hot Bed or Mushroom.**..... \$2.00  
**Incubator. Metal** ..... 50c  
 " " **Cyphers. Special.**..... 60c



**WEEDERS—Cleveland Lawn.** The best and simplest weeder. Removes the weeds without disturbing the sod or disfiguring the lawn, 50c  
**Hazeltine.** 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  
**Noyes, Hand.** ..... 25c. By mail 30c

## Calhoon Seed Sower.



The difficulty in sowing is entirely overcome by the use of the Calhoon Broad-cast 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

## Little Giant Seed Sower.

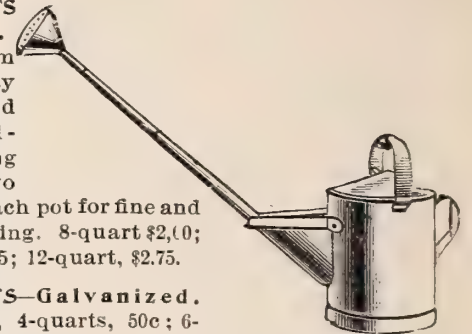
For sowing wheat, oats, rye, rice, flax, grass seed, clover seed, etc., in fact any kind of seed broadcast. They will save their cost almost daily in saving of seed, to say nothing about saving of time and more even distribution, which will have a great effect on the crop. It weighs but three pounds, is cheap and always in order, \$1.50

## Fiddle Bow Seed Sower.

Has been greatly improved, will sow all kind of grain and seed to your perfect satisfaction... .. \$1.15

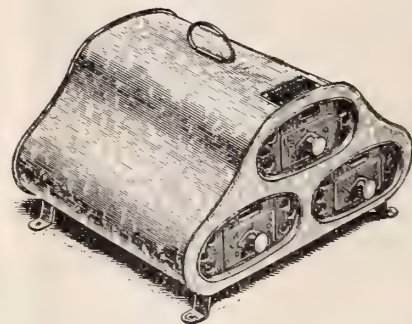
## WATERING POTS

—Galvanized. Made from best quality of iron, and heavily galvanized, long spout. Two roses with each pot for fine and coarse watering. 8-quart \$2.00; 10-quart, \$2.35; 12-quart, \$2.75.



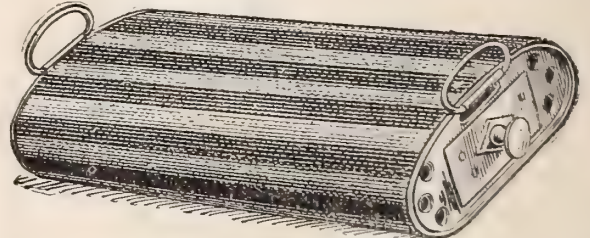
## WATERING POTS—Galvanized.

Short spout, 4-quarts, 50c; 6-quarts, 65c; 8-quarts, 75c, 10-quarts, 90c; 12-quarts, \$1.00; 16-quarts, \$1.25.



**WAGON HEATER—Lehman's Improved.** At last we have discovered a stove that will fill the want of every florist who takes his plants and cut flowers to the city markets in wagons. These stoves are absolutely fireproof as well as free from smell of gas. They furnish a moderate temperature

in a wagon during the severest weather, preventing any danger or injury by freezing to plants, etc., during transit. No. 10. 14 inches long, 16 inches wide, 10 inches high, containing three drawers ..... \$7.25  
*Especially adapted to Vans and Large Delivery Wagons.*



No. 3. 14 inches long, made with polished brass ends. \$3.75  
 No. 5. 14 inches long, made with white metal ends. .... 2.75  
 Detachable Brussels Carpets for 14-inch heaters. .... 75  
 No. 6. 12 inches long, made with polished brass ends, covered with carpet. .... 2.25  
 No. 7. 20 inches long, made with white metal ends. .... 4.00  
 Detachable Brussels Carpet, for 20-inch heaters ..... 1.25  
 The Heaters, which are furnished with carpet coverings, have a lining of asbestos cloth between the carpet and the heater, making it perfectly safe from scorching  
**Coal for Lehman Heater.** 10c per cake; 85c per doz.; \$6.50 per 100. A full cake of coal will heat from 12 to 15 hours, or can be extinguished or lighted at will.

## RURAL BOOKS.—Prices quoted below include postage.

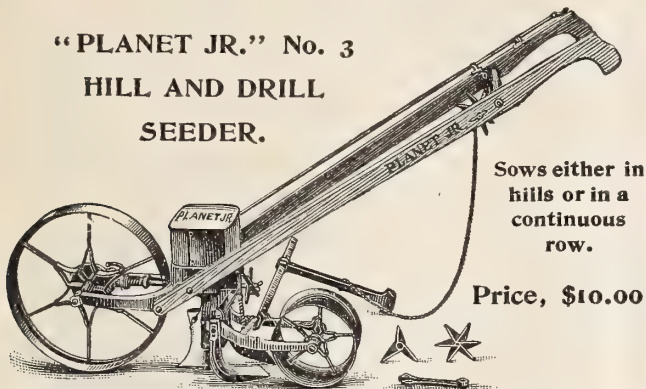
Alfalfa Clover. F. D. Coburn.....	\$0 50
American Fruit Culturist. Thomas.....	2 50
American Weeds and Useful Plants .....	1 75
Asparagus Culture. F. M. Hexamer .....	50
Basket Making. How to do it.....	25
Dahlia, The. L. K. Peacock .....	30
Floriculture Practical. Henderson.....	1 50
Forage Crops, Other than Grasses, Shaw.....	1 00
Forestry Practical. A. S. Fuller .....	1 50
Forcing Book, The. Prof. L. H. Bailey .....	1 00
Gardening for Pleasure. Henderson.....	1 00
Gardening for Profit. Henderson.....	1 50
Ginseng Cultivation, Harvesting, Marketing, Etc.....	50
Greenhouse Construction. L. R. Taft.....	1 50
Greenhouse Management. L. R. Taft.....	1 50
Handybook of Plants, General Horticulture. Henderson	3 00

Hedges, Wind Breaks, Shelters, Live Fences. E. P. Powell	\$0 50
Kaffir Corn, Sorghum and Cow Peas. W. B. Otwell.....	25
Injurious Insects of Garden and Farm.....	1 50
Mushroom Culture. Wm. Falconer.....	1 00
Orchid Culture. Rand .....	3 00
Ornamental Gardening for America. E. A. Long.....	1 50
Popular Flowers. Rand.....	2 00
Profits in Poultry .....	1 00
Quimby's Bee Keeping. L. C. Root.....	1 00
Silos Ensilage and Silage. Manly Mills.....	50
Small Fruit Culture. A. S. Fuller .....	1 00
The Rose, Its Cultivation, Varieties, etc. Ellwanger....	1 25
The Spraying of Plants. E. G. Lodemon .....	1 00
Truck Farming in the South. A. Oemler .....	1 00
Vegetable Gardening. S. B. Green .....	1 25
Violet Culture, Commercial. B. T. Galloway.....	1 50

# "Planet Jr." Farm and Garden Tools.

Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue free to any who desire it. "Planet Jr." goods are standard machines; the best, and you can rely on getting bottom prices from us on any of the "Planet Jr." goods.

## "PLANET JR." No. 3 HILL AND DRILL SEEDER.

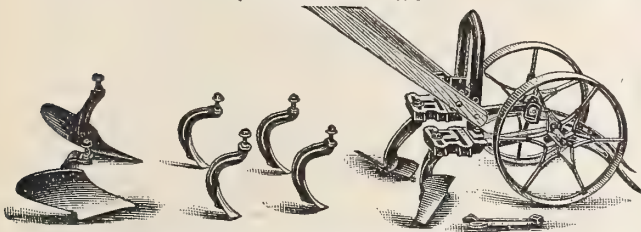


Sows either in hills or in a continuous row.

Price, \$10.00

A seeder that does not drop in hills is fast becoming a thing of the past. Why? Because all crops that are to be grown from seed and thinned to a regular stand, should be planted in hills at just the distance apart the plants are desired, for in drilling, unless the seed is sown unnecessarily thick, there will not always be a plant at the proper spot, and the crop is therefore irregular. This machine not only sows in a continuous row, but also drops in hills, 4, 6, 8, 12 and 24 inches apart. We can heartily recommend it. Price, \$10.00

## "Planet Jr." No. 12 Double Wheel Hoe, Cultivator, Rake and Plow.



This tool combines in itself the good points of its predecessors, with valuable new ideas. It has 11 in. wheels, which can be set at four different distances apart. The frame is malleable, with ample room for tool adjustment, and can be set at three different heights. The handles are adjustable, and the arch is of stiff steel, unusually high. The design of the frame is new, allowing the changes of the tools to be made without removal of the nuts from the standards. The machine has an unusually large equipment, seven pairs of tools in all, and the amount of work possible with this machine is almost incredible, covering the whole range of wheel hoe work both in the garden and on the farm, and has our unqualified endorsement. Price, complete, \$6.50.

No. 13 Double Wheel Hoe, (Hoes only).....\$4.25

## "Planet Jr." No. 8 Horse Hoe and Cultivator.

### PRICES:

No. 8 Horse Hoe,	\$8.00
No. 7 " "	7.50
No. 9 " "	6.90
No. 4 " "	5.85



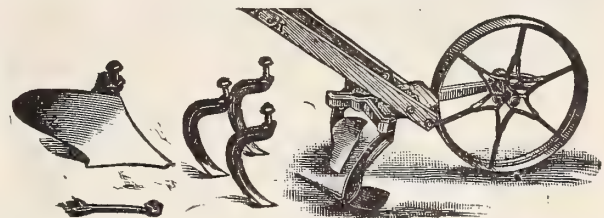
Probably no other cultivating machine is so widely known as the "Planet Jr." No. 8 Horse Hoe and Cultivator. It is so strongly built as to stand incredible strain, yet it is light and easily handled. Every part of the tool is perfected to make it valuable to the intelligent farmer, who knows the best is always the cheapest.

## "PLANET JR." No. 4 COMBINED HILL AND DRILL SEEDER AND SINGLE WHEEL HOE.



This is exactly the same style of seeder as the No. 3 "Planet Jr." Hill Dropper. It is smaller in capacity, though still of good size, holding two quarts. It drops in hills the same as the No. 3, and in drills any thickness, handling the smallest paper of seeds perfectly. It is simple, durable and very light running. Thrown out of gear instantly and the flow of seed cut off, by simply raising the handles. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes one of the most admirable Single Wheel Hoes of the "Planet Jr." family. Price, \$10.00. As a Drill only, \$8.00.

## "Planet Jr." No. 17 Single Wheel Hoe, Cultivator, Rake and Plow,

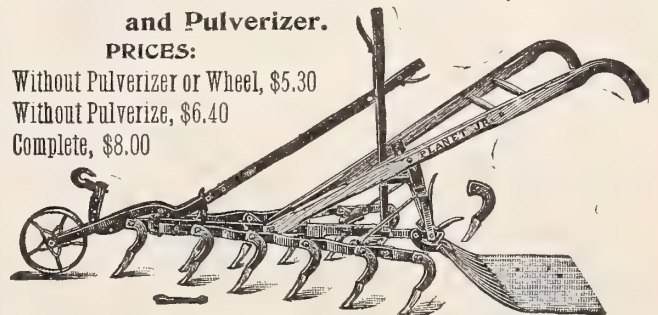


This latest and best Single Wheel Hoe has an 11-inch wheel with broad face, and a conveniently arranged and very valuable set of tools. It is very light, strong and easy running. Has adjustable handles and frame, and is the most perfect Wheel Hoe for market gardeners and private places. Frame changes in height; and the wheel to the other side of the frame, to allow of hoeing both sides of the row at one passage. Price, \$4.50.

## "Planet Jr." Twelve Tooth Harrow, Cultivator and Pulverizer.

### PRICES:

Without Pulverizer or Wheel,	\$5.30
Without Pulverize,	\$6.40
Complete,	\$8.00



This tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It has a high frame, and the chisel shaped teeth cut an inch wide, each. Hand levers regulate, width and depth while in motion, and the pulverizer prepares the ground capitolly for the Seed Drill or for plant setting, and controls the depth of the rear teeth. It contracts to 12 inches and expands to 32 inches. Cultivates without throwing earth upon the plants, and the smooth, round throated teeth turn strawberry runners without injuring them.

For cutting strawberry runners, we make a special attachment consisting of a 10-inch flat steel disk, mounted on an out rigger. Price extra, \$1.75.

# POULTRY SUPPLIES.

PRICES SUBJECT TO CHANGE.

## Rust's Egg Producer.



You can get plenty of Eggs at all seasons by using Rust's Egg Producer. It makes fowls vigorous and healthy, shortens the moulting period, prevents and cures leg weakness, etc., and is just what is needed to make poultry-keeping the most profitable operation on a farm. You can feed Rust's Egg Producer every day for two or three weeks, at a cost of one cent for each hen, and get surprising results.

One-lb. box, 25c; 2½-lb. box, 50c; 6-lb. box, \$1.00; 10-lb. box, \$1.50; 25-lb. keg, \$3.50. If by mail, add 16 cents a pound for postage.

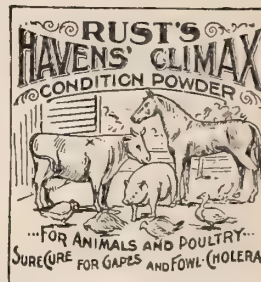
## RUST'S HAVENS' CLIMAX CONDITION POWDERS.

No Owner of Poultry or Stock should be without it.

It cures diseases and keeps stock and fowls healthy; the only real cure for gapes and fowl cholera; expels worms from horses, etc.; gives great and lasting benefits in heaves, without the slightest injury.

It makes hogs thrive and fatten; increases and improves the production of milk.

Price, 13-oz. package, 25c; 2-lb. package, 50c; 5-lb. box, \$1.00. If by mail, add 16 cents a pound for postage.



## Pratt's Poultry Food



Will increase the quantity of eggs and make hens lay regularly. It cures chicken cholera, roup, gapes, worms, rheumatism and all diseases. It produces bone, muscle and feathers. It makes the comb red, feathers lay smoothly, eggs fertile, and makes larger fowl. Molting fowl, when fed Pratt's Poultry Food, pay largely by their early laying qualities. Also, young chickens grow quickly, healthy and free from all disease.

Turkey, duck, geese and pigeon raisers find it profitable to feed Pratt's Poultry Food. No sickly, droopy fowl are ever seen where it is fed.

26-oz. size, 25c; 5-lb. size, 60c; 12-lb. bag, \$1.25. If by mail, add 16 cents per pound for postage.

## Imperial Egg Food.

For all Varieties of Laying Fowls, Young Chickens, Ducks, Geese and Turkeys.

Price, per lb. 25c; 2½ lbs., 50c; 6-lb. boxes, \$1.00; 10-lb. boxes, \$1.50; 25-lb. kegs, \$3.15. If by mail, add 16 cents per pound for postage.

## Columbus Poultry Food.

An excellent food for chickens, turkeys, ducks, geese and pigeons. Molting fowls should never be without it. Young chicks are free from diseases if given this food, and grow healthy and develop rapidly.

Price, 28-oz. size, 25c; 5-lb. size, 60c. If by mail, add 16 cents per pound for postage.

## Baum's Poultry Food.

The surest egg producer. The quickest and cheapest means of fattening for the market. It is just the thing required to strengthen the chicks—keeps them robust and free from disease. It makes the chickens develop much sooner, and makes early layers. 2-lb. box, 25c; 4½-lb. box, 50c. If by mail, add 16 cents per pound for postage.

## Cyphers Egg Stimulant.

Is a scientifically-prepared and perfectly balanced compound; at once a tonic and condition powder for promoting the general health, and a gentle stimulant to the egg-producing organs of the fowl, strengthening and stimulating them to a normal, healthy action, resulting in the increased production of strong, fertile eggs.

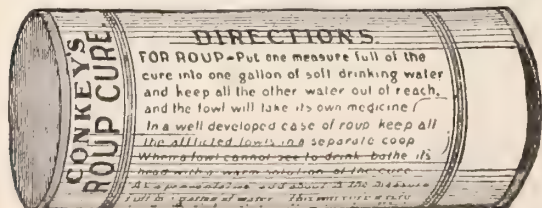
Nothing but absolutely pure drugs are used in its manufacture and no harmful results follow its use, as is the case with so many other so-called egg producers.

Each box contains sufficient powder for treating one bushel of food. Cyphers Egg Stimulant will increase the egg yield and we give a positive guarantee with every box to refund the money if the results claimed are not accomplished when directions, as printed on the label of each box, are followed.

Price, 25 cents.

## Rust's Havens' Roup Pills.

The pills act directly on the glands and mucous membrane, allay all tendency to fever, and carry off all morbid matter from the system. They are entirely free from everything harmful, and the best remedy ever discovered for Roup, Catarrh, Colds and Distemper. 25c per box of 48 pills.



## Conkey's Roup Cure

Will positively cure roup in all its forms. It is simply put in drinking water and the chicken takes its own medicine. It prevents colds, and is unequalled for canker, especially in pigeons.

One 50 cent package makes 25 gallons of medicine; \$1.00 package makes 75 gallons of medicine. So it is the best and cheapest cure of its kind in the market.

We guarantee each and every case where Conkey's Roup Cure is used; if it fails we refund the money. Directions in every package. Small package, 50c; large package, \$1.00.

## American Poultry Food.

This celebrated food is manufactured from wheat, corn, oats and barley. The grain is carefully selected, thoroughly kiln dried, roasted and finely ground. It is intended for the grain portion in the morning mash. It is prepared by steaming or scalding the same as any other ground food. Where it is the custom to mix vegetables, meat meal, etc., in the morning mash, these can be used in conjunction with American Poultry Food.

American Poultry Food is a food, not a condition powder, and is a prepared, ready-mixed daily ration.

If you are raising chicks for the market, there is no food that will force them so fast and produce such all round development and perfect quality as American Poultry Food as a morning mash. 5 lbs., 20c; 25 lbs., 75c; 100 lbs., \$1.75.

**POULTRY SUPPLIES. Continued.**

**SPRATT'S PATENT POULTRY FOOD.**

Spratt's Patent Chick Meal } Per lb., 10c; 3 lbs., 25c; 10  
 " " Poultry " } lbs., 75c; 50 lbs., \$3.00;  
 " " Pheasant " } 100 lbs., \$5.50.  
 " " Game " }

If by mail, add 16 cents per pound for postage.

**Beef Scraps.** The great demand among poultrymen for a reliable article in scraps has induced us to put on the market a quality of goods that has at once been appreciated by all poultry raisers. Per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 100 lbs., \$2.50.

**BONE GRANULATED—Coarse and Fine Ground.** Can be fed like any other food in grain, about one handful for every five fowls daily, or every other day. In either manner it furnishes a valuable food for poultry at all seasons of the year. Per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 100 lbs. \$3.00.

**BONE MEAL PURE.** For mixing once a day with soft feed, this is unsurpassed. Laying hens and young chickens whose digestive powers are not strong are much benefited by this, especially during the winter months, or where closely confined in yards. Per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 50 lbs., \$1.25; 100 lbs. \$2.25.

**DARLING'S MEAT MEAL.** This food is made from pure, sweet meat and bone. It is rich in albumen and protein, and is a nitrogeous food of great egg-producing value. Per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 50 lbs., \$1.25; 100 lbs., \$2.25.

**Hulled Oats** are much superior to wheat or corn for young chicks. They contain considerably more nutrition and are absolutely clean. They are economical to feed, for there is no waste, and their food value is high. Per lb., 5c; 6 lbs., 25c; 13 lbs., 50c; 50 lbs., \$1.25; 100 lbs. \$2.25

**Kaffir Corn.** A fine poultry and pigeon food, greatly relished by them. Per lb., 4c; 10 lbs., 25c; 100 lbs., \$1.65.

**Buckwheat.** Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.25.

**Barley.** Per lb., 5c; 6 lbs., 25c; 50 lbs., 85c; 100 lbs., \$1.50.

**Cane Seed.** Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.00.

**CORN, Yellow and White.** 5 lbs., 10c; 50 lbs., 75c; 100 lbs., \$1.25.

**CORN, Cracked.** 5 lbs., 10c; 50 lbs. \$1.00; 100 lbs., \$1.50.

**Hemp Seed.** Excellent food for poultry and parrots. Per lb., 10c; 3 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.75.

**Millet Poultry.** Large grain, makes an excellent bird and chick food. Per lb., 5c; 6 lbs., 25c; 50 lbs., \$1.50; 100 lbs., \$2.00.

**OATS—White or Mixed.** 5 lbs., 10c; 50 lbs., \$1.00; 100 lbs., \$1.75.

**RICE, Rough or Unhulled.** An excellent food for poultry and parrots. Per lb., 10c; 3 lbs., 25c; 50 lbs., \$2.50.

**SUNFLOWER SEED—Mammoth Russian.** The largest of all Sunflowers. We recommend it for poultry of all varieties. Plant a few hills in your poultry yard; the leaves and stalks make fine fodder for poultry. Per lb., 10c; 3 lbs., 25c; 10 lbs., 50c; 100 lbs., \$2.25.

**Buckeye Scratching Food.** We have prepared a mixture of about ten different sorts, of grain and seed among these are Buckwheat, Hungarian, Millet, Wheat, Cracked Corn, Oyster Shell, etc. Best food in the market. While present stock lasts, price only 50c bu.; 85c for 2 bu. bag.

**Cyphers' Pure Clover Meal.** Contains all of the clover, stalk, leaf and blossom. Pronounced by experts to be the best winter egg food; is also fed largely to growing chicks. Unequaled as a feather and bone maker. Mixed and fed in morning mash, not a particle need be wasted. 5c per lb., 25c for 6 lbs., \$1.00 for 50 lbs.

**Cut Clover.** The Cyphers short-cut, screened clover hay is the best in this line. The long sticks and stems are all taken out, thus delivering to you what the fowls can eat up clean. 5c per lb.; 25c for 6 lbs.; \$1.00 for 50 lbs.

**Mica Crystal Grit.** Contains valuable medicinal properties for fowls, such as sulphur and iron, and acts as a medicine as well as a grit. Made in three sizes—poultry, pigeon and chick. 5 lbs., 10c; 25 lbs., 30c; 100 lbs., 75c.

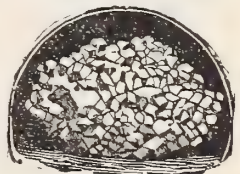
**Oyster Shells, Crushed.** Fine and coarse, 5 lbs., 10c; 25 lbs., 30c; 100 lbs. 65c.

**Charcoal, Pulverized.** 5c per lb.; 6 lbs., 25c; 50 lbs., \$1.75; 100 lbs., \$3.00.

**NEST EGGS—China or Opai.** Very popular, and the cleanest nest egg used. With these there is no danger of getting stale eggs mixed with the fresh ones, nor of the hens acquiring a habit of egg eating. 3c each; 25c per doz. If by mail, add 2c each; 20c per dozen extra.

**Climax Leg Bands.** The rings are made of brass, and are so bent that the tag acts as a clasp, holding them securely in place. Made in the following sizes: No. 1, for Bantam; No. 2, for Mediterranean females; No. 3, for Mediterranean males and American females; No. 4 and 5, for American males and Asiatic females; No. 6, for Asiatic males and turkeys. Prices, postpaid, 25c per doz., 40c for 25; 75c for 50; \$1.35 for 100.

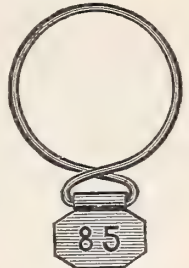
**The Smith Double Clinch Leg Bands.** A reliable open or removeable band. Fastens with two clinches passing through the Band, and turning toward each other in such a way as to form a protection to themselves and take up the ends in such a neat manner as to leave absolutely no exposed corners, ends or loops to come loose, making it at once the best open Band on the market. 20c per doz; 35c for 25; 60c for 50; \$1.00 per 100.



Mica Crystal Grit.



Double Clinch Leg Bands.



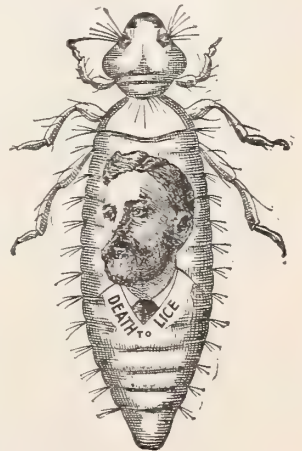
Climax Leg Bands.

**Lambert's Death to Lice.** Is largely used by the best poultrymen. For sitting hens it has no equal, keeping them clean, sweet and comfortable without injury to the hen eggs or chickens. 5 oz. pkt., 10c; 15 oz. pkt., 25c; 48 oz. pkt., 50c; 100 oz. pkt., \$1.00.

**Cypher's Lice Powder.** In offering CYPHER'S LICE POWDER, we offer a powder that we believe to be stronger than any similar preparation on the market. It is carefully compounded and contains no carbolic acid or other chemicals which will injure the fertility of the eggs. It is clean to handle, easy to apply, sure in effect and can be used in the nests of sitting hens without fear of injuring young chickens. For lice on cattle and horses, ticks on sheep and fleas on dogs, CYPHER'S LICE POWDER is a most effective remedy. 5 oz. pkt., 10c; 15 oz. box 25c; 48 oz. box 50c; 100 oz. package \$1.00.

**Lee's Lice killer.** A liquid preparation for destroying insects on chickens, hogs and other stock. It was especially designed for killing lice and mites on chickens and hogs without the necessity of handling, dipping, dusting or greasing fowls or animals. Per qt., 35c; half-gallon, 60c; gallon, \$1.00.

**Cypher's Anti-Fly Pest.** A sure death to flies, but it is our aim to drive rather than kill them. To kill flies they must come in contact with the remedy and this annoyance is what we wish to avoid. We, therefore, claim that our preparation is superior to those which have only killing properties. Its effect is lasting. It leaves no gummy substance behind and does not injure the animal's coat. One application instantly relieves horses and cattle of all annoyance from flies, mosquitoes, gnats and insects of all description for



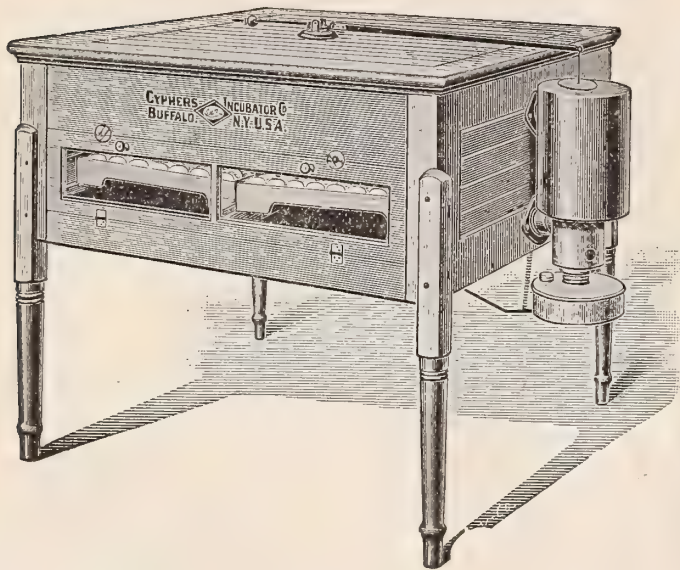
at least 24 hours. Its effect on cows is wonderful; it insures them perfect rest, and chance to feed in peace and quiet, resulting in an increased quantity of milk with less food consumed. If your horse is thin-skinned and is troubled by flies, give Cypher's Anti-Fly Pest a trial. It is not always necessary to spray the horses or cattle, for while standing in the barn it is sufficient to spray the sides of the stall and stanchions. Cows sprayed with Cypher's Anti-Fly Pest will produce 25 per cent. more milk. One gallon is sufficient to treat 300 cows. For applying we recommend the Utica Sprayer, described on page 85. 1/2 gallon, 50c; 1 gallon, 75c.

**Persian Insect Powder.** We have made arrangements with a large importing firm to supply us with pure Dalmatian or Persian Insect Powder, and can therefore recommend the article we offer as being strictly pure and fresh, and one that can be relied upon to kill the insect pests of all kinds that prey on our feathered pets. 1/4 lb. 15c; 1 lb. 50c; by mail 65c.

**Tobacco Dust.** A good thing to have about the poultry house. A handful in each nest will keep the lice out. Especially valuable for sitting hens. Per lb., 5c; per 100 lbs. \$3.00.

**Tobacco Stems.** Excellent for making nests of or scattering among the litter in the hen house, to keep down vermin. Per lb., 5c; 10 lbs., 30c; bales of about 125 lbs., \$1.50.

# CYPHERS INCUBATORS.



If you are in search of the latest patented, most durably built and best practical incubator manufactured to date, the one that will hatch "the largest number of the strongest and healthiest chicks or ducklings," the Cyphers is that machine.

The Cyphers Incubators are warranted by this company to last ten years without repairs, and are fully *guaranteed* as follows :

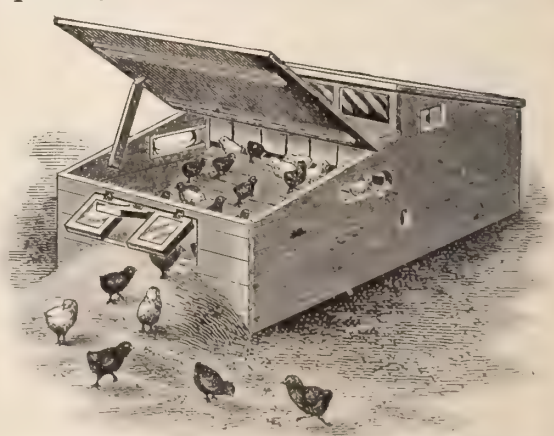
- To require no supplied moisture.
- To be self-ventilating.
- To be self-regulating.
- To operate with less oil and at less expense than any other make of incubator.
- To be fire-proof, having the best, the safest and the most costly built heater attached to any incubator.

To be in all essentials the simplest and easiest to operate and control, requiring less labor and attention than any other style or make of incubator.

No. 0 Incubator, 60-Egg Capacity,	Price, \$14.00
No. 1 Incubator, 120-Egg Capacity,	" \$20.00
No. 2 Incubator, 220-Egg Capacity,	" \$29.00
No. 3 Incubator, 360-Egg Capacity,	" \$37.00

# CYPHERS BROODERS.

The Cyphers Brooders, like the Cyphers Incubators, are as correct in principle and as durably made as we know how to make them. They are Mr. Cyphers' own invention, have been in use three and four years, have been altered slightly from time to time as experience suggested, until to-day they are practically perfect. The proper test is the actual work they do in the hands of men and women engaged in raising poultry by artificial means. Hundreds of Cyphers Brooders of the different styles and sizes have been sold, and scores of people, both men and women, have reported their success with them under all conditions.



## INDOOR AND OUTDOOR BROODERS.

Style B, Indoor,	\$10.00
Style A, Outdoor,	12.00

## SECTIONAL BROODERS.

2-Section,	\$18.00
3-Section,	23.00
4-Section,	28.00

Send Ten Cents in Stamps for a Complete One Hundred and Sixty Page Illustrated Catalogue of our Manufactures.



# POULTRY SUPPLIES—Continued.

## Cyphers Incubator and Brooder Extras.

**Cyphers Incubator Lamps.** (Seamless Bottoms). Large size, with burner and wick all complete, for use on Nos. 1, 2 and 3 Incubators, \$1.00 each by express. Small size, all complete, for use on No. 0 Incubator, 85c each by express.

**Incubator Lamp Burners.** Large size, to fit Nos. 1, 2 and 3 Incubators, 60c each by mail. Small size, to fit No. 0 Incubator, 40c each by mail.

**Lamp Wicks.** For Incubator Lamps, 30c per dozen by mail. For Brooder Stoves, 30c per dozen by mail.

**Cyphers Pedigree Egg Trays.** The pedigree egg tray device, by which the eggs placed in a No. 1, 120 egg Incubator can be kept in *four separate lots*, also the chicks that hatch therefrom; and the eggs in No. 2, 220 egg Incubator can be kept in *eight separate lots*, also the chicks that hatch therefrom. To make a device of this kind of practical value, not only the eggs must be kept separate, but the chicks also; and this result is accomplished in this pedigree tray.

No. 0. Tray, each.....\$1.25 | No. 2. Tray, per pair.. \$3.00  
No. 1. Tray, each..... 1.50 | No. 3. Tray, per pair... 3.50

**Extra Incubator Trays.** For No. 0 Incubator, 50c each; for No. 1, 85c each; for No. 2, \$1.50 per pair; for No. 3, \$1.75 per pair.

**New Cyphers Fire-Proof Heaters** for any size Incubator \$2.50 each by express or freight.

**Cyphers Incubator Thermometers.** High-grade tested Incubator thermometers. 60c each.

**Cyphers Brooder Thermometers.** 45c each.

### CYPHERS BROOD COOPS.

Hundreds of people, women especially, are so situated that they cannot build for themselves, or have built except at unreasonable cost, safe brood coops for hens with chicks. These coops are well made in every respect, and are easily cleaned, being so constructed that the bottom can be taken out. There is also an inside door of wire netting so arranged that it can be closed nights and make all safe against vermin of various kinds. These coops are 20 x 30 inches in size. Have a strong board floor, are water-tight and durable..... \$2.25.

**Hallock Food and Water Holders.** Recommended both as food and water dishes. The tops and bottoms are separable by placing the palm of the hand on top of the upright post, then pressing downward, causing the wires to spread and thus easily releasing the pan. The wires prevent the chicks or fowls from getting into the food or water and soiling it. No better arrangement could be devised, either for outdoor or indoor use.

One gallon, 75c; two gallon, \$1.00; three gallons, \$1.25.

**Cyphers Practical Egg Tester.** The standard tester in use on large Eastern duck and broiler farms. Is equipped with an extra strong reflector, also a good lamp. Price \$1.25.

**Cyphers X-Ray Egg Tester.** This is an inexpensive metal tester that fits on any ordinary lamp. Price, 30c. By mail, postpaid, 40c.

**Cyphers Safety Brooder Stove.** This stove has no equal. The safety water pan holds nearly a quart of water and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water between the oil bowl and the flame jet. The oil bowl and water jacket are of sheet brass, and the oil bowl is seamless, thus avoiding all danger of leaks. We strongly advise against using a lamp in a brooder. The Cyphers brooder stove is not only perfectly safe, but furnishes twice the heat of an ordinary brooder lamp. Price, \$1.25.

**Cyphers Shell and Grit Boxes.** These boxes work an important saving in grits, oyster shell, ground bone, charcoal, beef scraps, etc. They are automatic feeders, the materials working down into the feeding space as fast as the fowls consume them. Price, 60c each.

**Galvanized Sanitary Drinking Fountain.** Made of heavy galvanized iron. The best and most convenient fountain on the market. Can be thoroughly and easily cleaned. Is not injured by freezing. Can remove ice in two minutes.

1 gallon, 50c; 2 gallon, 85c.

**Galvanized Sanitary Fountain Heater.** Use a heater and give your chicks and fowls warm water. No expense, no danger. Very little trouble. Lamp burns twenty-four hours. Chickens large enough to be out of the brooder easily drink from it. Great comfort for the poultry—promotes growth increases the eggs.

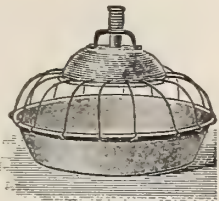
For 1 gallon size, 50c; for 2 gallon size 60c.

**Stoneware Sanitary Drinking Fountain.**

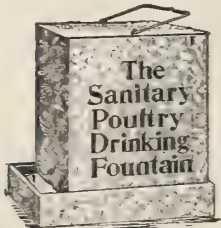
1 quart size .....	each, 20c	per doz. \$2 00
2 " " .....	" 25c	" 2 50
4 " " .....	" 35c	" 3 50
8 " " .....	" 45c	" 4 50

**Paul's Drinking Fountain.** Half-gallon, 25c; one gallon, 35c; two gallon, 50c.

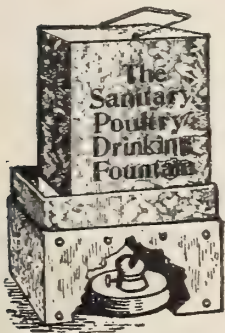
**Sanitary Self-Feeding Box.** Three spaces. Made of heavy galvanized iron. Will last a life-time. Saves waste. Hangs on a nail. Hold four quarts. Soon pays for itself. Neat, cheap and convenient. 50c.



Hallock Food and Water Holder.



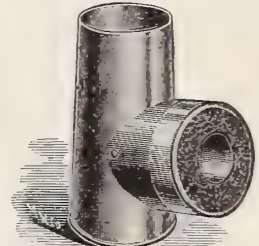
Galvanized Sanitary Drinking Fountain.



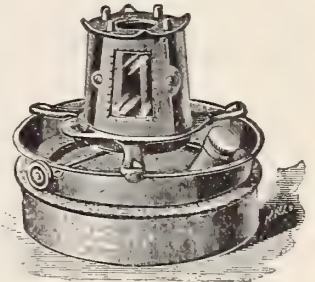
Fountain Heater.



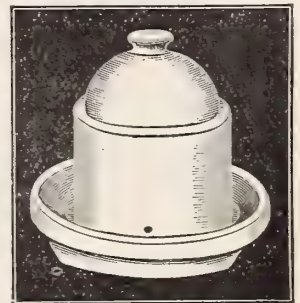
Paul's Drinking Fountain.



X-Ray Egg Tester.



Cyphers Brooder Stove.



Stoneware Sanitary Drinking Fountain.



Sanitary Self-Feeding Box.

**POULTRY SUPPLIES—Continued.**

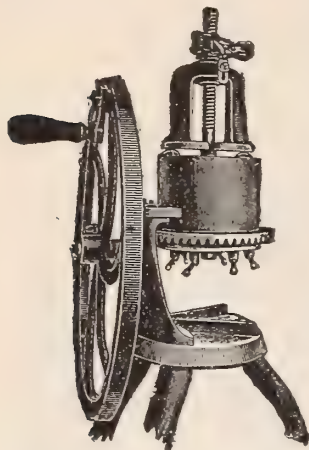
**MANN'S GREEN BONE CUTTERS.**

Mann's New Bone Cutters are the standard of excellence. A standard which has only been obtained by years of experience. Every mill warranted to cut dry or green bones with the meat and gristle attached without clog or difficulty.

A few reasons why Mann's Bone Cutters are the best.—They cut faster, finer and easier than any other; are the strongest and most durable; will cut dry bones or green bones; have less friction. They have finely tempered steel knives, and are adjustable to cut coarse or fine. They will duplicate in every part. The knives are easy to sharpen; any one can do it.

**NOTHING WILL MAKE HENS LAY LIKE GREEN CUT BONE.**

	Net Cash Price.
No. 5 B—With Balance Wheel.....	\$ 8 00
No. 5 B M—With Balance Wheel and Iron Stand .....	10 40
No. 7—With Balance Wheel and Iron Stand .....	12 00
No. 7½—Combination Power Cutter; capacity 50 to 75 lbs. per hour.....	16 00
No. 9—With Balance Wheel and Iron Stand, Standard Bone Cutter.....	18 40
No. 11—Combination Power Cutter; capacity 100 lbs. per hour.....	26 00



**THE MODEL GRINDING MILL.**

An Improved Hand Power Grinding Mill, compactly made of strong and durable metal.

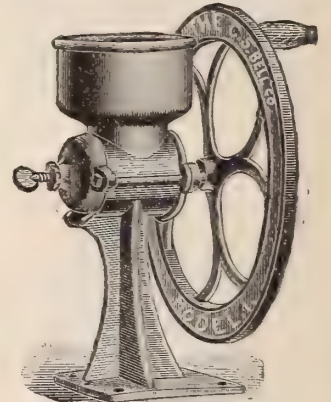
They are intended to grind all kinds of grain, dry bones, shells, roots, barks, salt, etc. The primary object of these Mills is to grind all kinds of feed for chickens and other domestic fowls and animals.

They are also found to be invaluable to prepare cracked wheat, graham flour and corn meal for table use, and for these purposes alone will pay their cost in a short time and give a pure unadulterated food.

They are easily adjusted to grind fine or coarse without the use of wrench or other tools. The Buhrs are made of Steel-Alloy Metal, and the most durable grinding surfaces made.

No.	Height.	Width.	Wheel.	Weight.	Capacity.	Price.
1	13	8½	12¼	20 lbs.	½ to 1 bushel per hour	\$2 50
2	16	9½	16¼	35 lbs.	¾ to 1½ " "	5 00
3	18½	12¼	19¾	63 lbs.	1 to 2 " "	7 50

No. 3 Mill can be furnished with an 8-inch pulley in addition to fly-wheel, if desired. Price, complete, \$10.00.



Model Grinding Mill.

**BANNER ROOT CUTTER.**

A machine made expressly for poultrymen. It quickly cuts the vegetables into long, round, ribbon-like slices, that resemble a bunch of angle worms, which fowls readily eat up to the last morsel. The value of this kind of food once or twice a day, as an egg producer, is unequalled. It also puts the fowls into a fine, healthy condition, acting as a gentle tonic and laxative. This machine will pay for itself in a short time. It is a valuable addition to the poultry-house, and comes to us highly recommended by the best poultry experts in the country.

No. 7 Banner Root Cutter ..... \$5.00

**CHAMPION BALL-BEARING CORN SHELLER.**

**A Cheap, Good Sheller that Shells.** It can be set to shell any corn that grows.

The power gained by using ball bearings makes it run very easy, and saves the expense of a heavy balance wheel.

By an ingenious arrangement, the machine can be fastened to any box or plank in half a minute. A single thumb-screw strap holds it securely in place. No bolts or screws required, and no holes to be bored.

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.** A first-class well-made Sheller.....\$2 25

**EASY CORN SHELLER.** A good, cheap Corn Sheller..... 1.25



**SWINGING FEED TRAY FOR POULTRY.**

They are made of Galvanized Iron; are water tight, and are equally useful for water or food.

Hens can not scratch the food out or the dirt in. Weight of hen tips the tray and throws her off. Upper rod tips up also if hen tries to roost over pan. Legs fasten anywhere.

18-inch size, \$1.00. 27-inch size, \$1.25. 36-inch size, \$1.50.

**MANN'S CLOVER CUTTER.**

Cuts Hay or Clover, either dry or green. Every revolution of the balance wheel produces twelve cuts, which is four times as fast as the ordinary Clover Cutter.

B, with Balance Wheel.....	\$ 8 00
B M, with Balance Wheel on Iron Stand.....	10 00

**THE PHILADELPHIA POULTRY MARKER.**

Where a person has only a few chicks to keep track of, the Philadelphia Poultry Marker will serve the purpose admirably. The marker is made in two sizes, one for chicks and one for adult fowls. The sizes of holes punched are shown by the black dots printed on one side of the marker. Price, 25 cents.

**PILLING'S CAPONIZING INSTRUMENTS.**

The Geo. H. Pilling Company has had forty years' experience in manufacturing high-class surgical instruments, and any one purchasing a set of their caponizing instruments will find he has made no mistake. We will send with each set of Pilling's Caponizing Instruments a booklet, entitled "Complete Guide for Caponizing," fully illustrated.

Price, complete, with full instructions, in velvet-lined case, as per engraving.....	\$2 75
Pilling's French Killing Knife .....	50
Pilling's Gape Worm Extractor.....	25

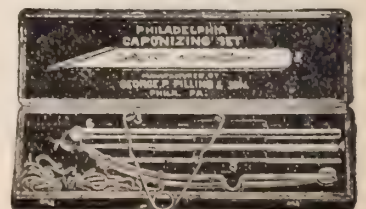
**BIT TO PREVENT FEATHER PULLING.**

This bit does not interfere with the bird's feeding—it keeps the bill far enough apart to prevent them catching the feathers. Price, \$1.00 per doz. Sample, 10 cents.

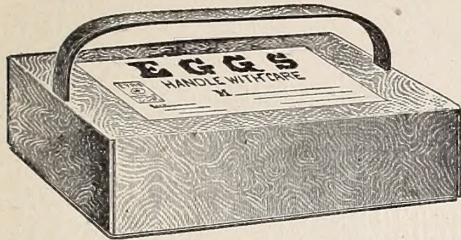


RELIABLE POULTRY PUNCH.

Price, 35c. By mail, 40c, postpaid.



**POULTRY SUPPLIES.—Continued.**



**EYRIE SHIPPING BOXES.**—Unquestionably the best device yet found for shipping safely fancy eggs by express. Made of heavy corrugated card-board; are very strong, compact, light and convenient. The handle, when put in place, locks the box, and it cannot be tampered with in transit. The handle prevents the putting of anything on top of the box and thus prevents rough usage by expressmen.

1 setting, each, 15c; per dozen, \$1 25. | 2 setting, each, 20c; per dozen, \$1 90.

**EYRIE SHIPPING COOPS.**—The body of the box is composed of one piece of *Waterproof Corrugated Paper* in the form of a square tube, which folds flat for shipment. The bottom is composed of a frame of wood covered with a sheet of heavy veneer of sufficient strength. The top

is composed of a wooden frame with slats running across. Both the top and bottom are made up at the factory, and the only labor required in setting up the coop is the insertion of the top and bottom in the tube and the running of a row of tacks around each. The weight of the coop is less than the muslin coops, and has the marked advantage of only taking the single rate of express. The corrugated paper forms sides and ends which are perfectly tight, preventing draughts. The strength of the coop is such that it will bear any amount of weight, and is perfectly safe, having been accepted by the express companies on the same basis as the wooden coop.

No. A—Size 12x16x18 in., 25c ea.; \$2.40 doz. No. B—Size 12x18x22 in., 30c ea.; \$3.00 doz. No. C—Size 12x22x22 in., 35c ea.; \$3.85 doz. No. D—Size 20x22x22 in., 40c ea.; \$4.35 doz.

**RED ROSIN SHEATHING PAPER.**—An excellent Sheathing Paper, strong and durable. 30 inches high; 500 square feet to roll.

No. 1, 20 lbs., 60c per roll. No. 2, 25 lbs., 75c per roll. No. 3, 30 lbs., \$1.00 per roll.

**BLACK ROOFING FELT.**—A Tarred Felt of good quality, excellent for roofing; strong and durable.

2-Ply, roll of 108 square ft., 90c per roll. 3-Ply, roll of 108 square ft., \$1.15 per roll

**TAR ROOFING PAPER.**—Rolls 325 square feet, \$1.00 per roll.

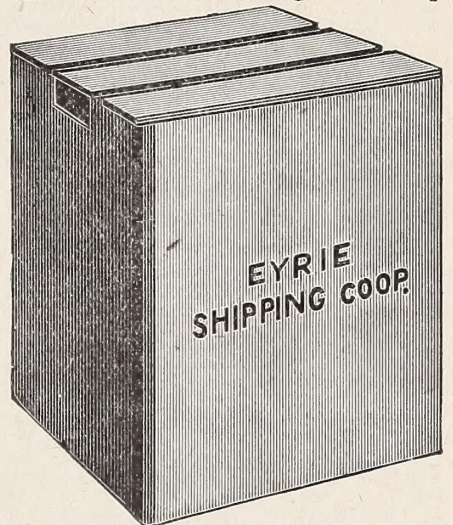
**TIN CAPS AND WIRE NAILS.**—One pound of Caps and Nails is required for each roll of roofing. Per lb., 8c.

**ROOF PAINT.**—This is put up specially for painting on roofing papers, etc. 5-gallon can, \$1.25.

**OILED MUSLIN.**—Is thoroughly saturated with oil, and has come into general use for constructing partitions between pens and for scratching-shed curtains in poultry-houses. It is far superior to wire netting for partitions, as it stops all draughts. Per yard, 12c.

**WIRE NETTING, POULTRY.**—The best wire netting made, with a three-strand cable selvage galvanized after weaving. We offer this excellent substitute for clumsy wood poultry yards at the following low prices. We sell in full bales only; none are cut. Prices for rolls 150 feet long (prices subject to market changes):

Mesh. Wire.	Width-12	18	24	30	36	48	60	72
2-inch. No. 19—For fowls	\$ 75	\$1 15	\$1 50	\$1 85	\$2 25	\$3 00	\$3 75	\$4 50
1-inch. No. 20—For chicks	1 50	2 25	Write for special prices on five rolls and over.					



**PIGEON SUPPLIES.**

**Pigeon Peas.** Small, round pea, largely used as food for pigeons. Per 1/2 bush., 90c; bush., \$1.65; full bag lots, \$1.60 bush. Vetches, 10c lb.; 4 lbs., 25c; 10 lbs., 50c; 50 lbs., \$2.25; 100 lbs., \$4.25. Tick Beans, 10c per lb.; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$3.25; 100 lbs., \$6.00.

**Yellow Pigeon Corn.** 5c per lb.; 6 lbs., 25c; 13 lbs., 50c; 50 lbs., \$1.50; 100 lbs., \$2.25.

**Pigeon Grits.** 5 lbs., 10c; 25 lbs., 30c; 100 lbs., 75c.

**Foust's Health Grit.** Unequaled for pigeons. It contains peculiar properties which no other pigeon grit contains. They are medicinal and strengthening, and by the use of this grit pigeon fanciers are able to raise a larger number of better pigeons than in any other manner. It contains the necessary elements for the development of the highest physical vigor, purest blood, rugged health and extra endurance. Per lb., 5c; 10 lbs., 40c; 25 lbs., 75c; 100 lbs., \$2.00.

**Kaffir Corn.** Per lb., 4c; 10 lbs., 25c; 100 lbs., \$1 65.

**Rock Salt.** 5 lbs., 10c; 50 to 100-lb. lots, 1c per lb.

**Nest Pans.** 10c each; \$1.00 per dozen.

**Pigeon Leg Bands.** If bands are put on when the bird is only 5 to 8 days old, the seamless aluminum bands can be used. We stamp with two letters and the year, and numbered from 1 up, if desired. For old birds the open bands of German Silver have to be used. These can also be marked with initial and number, as desired, without extra cost.

**Price.**—For homers and similar-sized breeds, Seamless Aluminum, 35c per doz.; \$2.50 per 100. For dragoods, runts and large breeds, Seamless Aluminum, 45c per doz.; \$3.00 per 100. Open German Silver, for all sizes, 20c per doz.; \$1.25 per 100.

**STOCK SUPPLIES.**

**Pratt's Food for Horses and Cattle.**

It regulates the bowels, blood, liver and digestive organs, and, consequently, it builds up run-down horses, restores lost appetite, prevents and cures pink eye, distemper, heaves, colds, colic, hide-bound, eruptions of the skin, kidney troubles, lung fever, exhaustion, expels worms, grubs and bots, and is a preventive against contagious diseases. It makes the coat glossy and shed nicely. It produces bone, muscle and better staying powers.

**For Cows.**—It increases flow of milk, makes it richer, and produces more butter. **For Hogs.**—Cures and prevents cholera, sore throat, inflammation of the bowels, quincy, diphtheria, etc. 7-lb. pkg., 50c; 12-lb. bag, 75c; eight 12-lb. bags, \$5.50.

**Pratt's Animal Regulator.** A highly concentrated form of Pratt's Food for Horses and Cattle, so that smaller quantities are used to obtain the same results. 20-oz. pkt., 25c; 2 3/4-lb. pkt., 50c.

**Columbus Animal Condiment.** A highly concentrated food for horses, cattle, hogs and sheep. Hogs fatten much quicker, dairy cows produce more milk and butter; invigorates horses. 30-oz. pkt., 25c.

**Columbus Stock Food.** Invigorates, cures and prevents diseases of horses, cattle, hogs and sheep. 6 1/2-lb. pkt., 50c.



**Victor Corn and Oat Feed**—Is a blend of choice grains, based upon Corn and Oats scientifically proportioned for general feeding purposes. Victor feed is offered the stockman as the best general feed on the market. It has been tried under all manner of conditions, and has never failed to yield a profit. It is safe, sure, successful. Stock fed upon it make constant gains and remain free from disease. Its standard of excellence is unvarying. Its ingredients are analyzed and proportioned, and every bag is warranted of uniform content. 50 lbs., 65c; 100 lbs., \$1.20; 1,000 lbs., \$11 00.

**Quaker Dairy Feed.** This feed is made entirely of grain, principally of Oats, combined in scientific proportions. It is both nitrogenous and carbonaceous, and is designed for the production of milk and the proper maintenance of the animal. 50 lbs., 60c; 100 lbs., \$1.15; 1,000 lbs., \$10.50.

**Retsof Rock Salt for Stock.** Per 100 lbs., 75c; 500 lbs., \$3.00; 1,000 lbs., \$5.50; 2,000 lbs., \$9.50.

**Cotton Seed Meal.** Per bag of 100 lbs., \$1 50; 10 bags, \$13.50; 20 bags, \$26.50.

**Old Process Linseed, or Oil Cake Meal.** Per bag, \$1.50; 10 bags, \$14.00; 20 bags, \$27.00.

**Prices subject to market changes.**



## WHEN TO SPRAY AND WHAT TO USE.

The following brief directions for the spraying of fruits and vegetables have been compiled as the result of several years' experimenting with different materials, and they can be followed without injury to the crops, and with profit to the owner. It will pay to spray all fruit plants in the spring with copper sulphate solution, and the second and third applications as given, can generally be made with profit. Never spray with arsenites while the trees are in blossom, as the bees will be poisoned; they are necessary to fertilize the flowers.

PLANT	First Application	Second Application	Third Application	Fourth Application	Fifth Application
<b>Apple</b> —(Canker worm, codling moth, bud moth, scab.)	Spray before buds start, using copper sulphate solution.	After the blossoms have formed, but before they open, Bordeaux and Paris green.*	Within a week after blossoms have fallen, Bordeaux and Paris green.	10 to 14 days later, repeat.	10 to 14 days later, Bordeaux or weak copper sulphate.
<b>Bean</b> —(Anthracnose.)	When blossoms appear, spray with Bordeaux.	10 days later, repeat.	10 to 14 days later weak copper sulphate solution.	Repeat last, if necessary.	
<b>Cabbage</b> —(Worms, aphids.)	When worms first appear, kerosene emulsion, or Paris green.	If worms or aphids are present, repeat if plants are not heading, using emulsion for aphids.	If aphids persist, or if worms reappear, use kerosene emulsion, if plants are not heading.	After heads form, use saltpetre for worms, a teaspoonful to a gallon of water, emulsion for aphids.	Repeat, if necessary.
<b>Carnation</b> —(Rust and other fungous diseases.)	When planted out, dip in Bordeaux.	7 to 12 days later spray plants with Bordeaux.	Repeat at intervals of a week or ten days until blossoms open.	While in bloom spray every week with the dilute copper sulphate solution.	
<b>Cherry</b> —(Rot, aphid, curculio and slug.)	Before buds start, use copper sulphate solution. For aphid, kerosene emulsion.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, if signs of rot appear, repeat.	10 to 12 days later, copper sulphate solution, weak.	Repeat, if necessary.
<b>Currant</b> —(Worms, mildew.)	As soon as worms are seen, Paris green.	If they reappear, repeat, adding Bordeaux for mildew. †	If worms still trouble, Persian insect powder or hellebore. †		
<b>Cocoseberry</b> —(Mildew, worms.)	As leaves open, Bordeaux and Paris green.	In 10 to 14 days, repeat with both.	10 to 14 days later, sulphide of potassium on English varieties.	10 to 14 days later, repeat if necessary.	If mildew persists after crop is gathered Bordeaux.
<b>Grape</b> —(Flea-beetle, fungous diseases.)	Before buds burst, copper sulphate solution and Paris green.	When first leaves are half grown, Bordeaux and Paris green.	As soon as fruit has set, repeat.*	10 to 14 days later, Bordeaux mixture, if disease is present.	If necessary, very weak copper sulphate solution.
<b>Nursery Stock</b> —(Fungous diseases.)	When buds burst, Bordeaux.	Repeat at intervals	of 10 to 14 days.		
<b>Peach, Apricot</b> —(Leafcurl, curculio, mildew and rot.)	Before buds swell, copper sulphate solution.	As soon as fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 12 days later, repeat.	If rot persists, use very weak copper sulphate solution every 5 to 7 days. †
<b>Pear</b> —(Leaf-blight, scab, psylla and codling moth.)	Before buds start, copper sulphate solution.	Within a week after blossoms fall Bordeaux and Paris green.	10 to 12 days later, repeat.	10 to 16 days later, Bordeaux.	10 to 16 days later, Bordeaux. †
<b>Plum</b> —(Black knot, rot and all fungous diseases, curculio.)	As buds start, copper sulphate solution. Cut out knot and burn.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Weak copper sulphate solution, as is necessary.
<b>Potato</b> —(Beetles, scab, blight.)	For scab, soak seed in corrosive sublimate solution. (2 oz. in 16 gallons of water for 90 minutes.)	When beetles or their larvae appear Paris green (1 pound to 100 pounds of plaster.)	Repeat whenever necessary.	When blight of the leaves is accompanied by rot of the tubers Bordeaux.	Repeat if necessary.
<b>Quince</b> —(Leaf and fruit spot.)	Before buds start, copper sulphate solution.	When fruit has set, Bordeaux and Paris green.*	10 to 12 days later, repeat.	10 to 20 days later, Bordeaux.	Bordeaux or copper sulphate solution, as is necessary.
<b>Raspberry, Blackberry</b> —(Anthracnose, rust.)	Cut out badly diseased canes. Spray with copper sulphate solution before growth starts.	When new canes are one foot high, spray with Bordeaux mixture.	10 to 14 days later, weak copper sulphate solution.	When crop is gathered, remove old canes, thin new ones and spray with Bordeaux mixture.	
<b>Rose</b> —(Mildew, black spot, red spider, aphid.)	Mildew: Keep heating pipes painted with equal parts lime and sulphur mixed with water to a paste.	Black spot: Spray plants once a week with weak copper sulphate.	Red spider: Kerosene emulsion to under side of foliage.	Aphis: Kerosene emulsion.	
<b>Strawberry</b> —(Rust.)	Just before blossoms open, Bordeaux and Paris green.	When fruit has set, Bordeaux* or weak copper sulphate solution.	As soon as berries are harvested, Bordeaux (if to be kept longer.)		
<b>Tomato</b> —(Rot and blight, worms.)	When first fruits have set, Bordeaux.	If disease appears repeat* or use weak copper sulphate solution.	If necessary, spray with weak copper sulphate solution.		
<b>Violet</b> —(Blight, red spider.)	When blight is first seen, weak copper sulphate. Kerosene emulsion for insects.	Repeat at intervals of 10 to 20 days, as necessary for blight.	<b>NOTE.</b> —Use kerosene emulsion, very weak.		

### Special Notes.

For **BLACK KNOT** on cherries and plums cut out and destroy by burning the diseased parts as soon as discovered.

For **APHIS** on all plants use kerosene emulsion.

If **RED RUST** appears the entire stools affected should be cut out and burned.

**YOUNG PLANTS** should be sprayed with Bordeaux mixture at the time of the first and third applications to bearing plants

**EXPLANATION.**—When an asterisk (\*) is used it cautions against spraying with poisons while the plants are in blossom; a dagger (†) indicates that there is danger of making application within three weeks of the time the fruit is to be used as food. While the number of applications recommended will be found desirable, in seasons when the fungi are less troublesome a smaller number may often suffice.

### FORMULAS.

**BORDEAUX MIXTURE.**—Copper sulphate, 4 lbs.; Quick lime, 4 lbs.; Paris green, [for leaf eating insects,] 4 oz.; Water, [one barrel,] 40-50 gallons. To prevent potato rot, 6 lbs. of copper sulphate is used instead of 4.

**KEROSENE EMULSION.**—For sucking insects. Kerosene, [coal oil,] 2 gals.; Rain water, 1 gal.; Soap, ½ lb. To be diluted before use with 9 parts of water.

**PARIS GREEN AND WATER.**—For insects which eat foliage. Paris green, 1 lb.; Lime, [fresh,] 1 lb.; Water, 200 gals.

**COPPER SULPHATE SOLUTION.**—Copper sulphate, 1 lb.; Water, 25 gals. For use only before the buds open.

**AMMONICAL COPPER CARBONATE.**—Copper carbonate, 5 oz.; Ammonia, 2 qts.; Water, [1 barrel,] 40-50 gals. For use late in the season when Bordeaux mixture may stain the fruit. Also used for Greenhouse spraying.



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, it is unequalled; the immense quantity we annually sell is the best proof we can offer. 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 15 x 20, 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 unfailing 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 raked repeatedly, thoroughly pulverized, and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken. As portions sink, the hollows should be firmly filled, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain, and at the best time for lawn making (April) these are usually sufficiently abundant. When the soil is firm, level and suitably moist, sow "SUBURBAN" LAWN GRASS SEED at the rate of four bushels (64 lbs.) per acre. One pound is sufficient to sow a small yard 15 x 20 feet, or 300 square feet. 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 three or four 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 to 600 lbs. to the acre) should be used.

### Suburban Lawn Grass Seed.

Price:  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 5 lbs., \$1.00; 1 bu. of 16 lbs., \$3.00. If wanted by mail add 10c per lb. extra.

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

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

**McCullough's Golf Link Grass Seed.**—We have given much attention to grasses for *Golf Links*. The mixtures 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.

**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 wash-out.

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