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Very respectfully, **JOS. F. DICKMANN SEED COMPANY.**

Alle Aufträge in deutscher Sprache erhalten dieselbe pünktliche Aufmerksamkeit wie die in englischer Sprache, denn hier wird auch Deutsch gesprochen.

*Reliable Vegetable Seeds for Market Gardeners.*

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Interior View of Salesroom, 1110 North Third Street.

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ST. LOUIS, MO.


# DESCRIPTIVE PRICE LIST

... OF ...

## VEGETABLE, FIELD AND FLOWER SEEDS

With Directions for Cultivation.

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 **OUR PRICES INCLUDE POSTAGE** on all Vegetable and Flower Seeds by the packet, ounce or pound, except Peas, Beans and Corn, when 15 cents per quart and 10 cents per pint must be added to Catalogue prices for postage. **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.

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### The Most Liberal Premiums Ever Offered By Any Seedsmen.

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25 CENTS' worth of seeds extra will also be allowed on each ONE DOLLAR sent us for seeds in OUNCES. Thus, any one sending us \$1.00 can select seeds in ounces to the value of \$1.25; for \$2.00, to the value of \$2.50; for \$3.00, to the value of \$3.75; for \$4.00, seeds in ounces to the value of \$5.00, and so on.

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### Vegetable Seeds that May Be Sown in Each Month, from January to October.

**JANUARY**—Sow in Hot-Bed—Early Beet, Early Cabbage, Forcing Carrot, Cauliflower, Early Lettuce, Italian Onion, Radish.

**FEBRUARY**—Sow in Hot-Bed—Early Beet, Broccoli, Early Cabbage, Forcing Carrot, Celery, Cucumber, Egg Plant, Early Lettuce, Parsley, Pepper, Italian Onion, Radish, Tomato.

**MARCH**—Sow in Hot-Bed—Early Beet, Early Cabbage, Forcing Carrot, Cauliflower, Celery, Cucumber, Egg Plant, Kohlrabi, Lettuce, Melon, Parsley, Peas, Pepper, Italian Onion, Radish, Spinach, Tomato, Herbs.

Sow in Open Ground—Beans, Beet, Cabbage, Cauliflower, Celery, Carrot, Cress, Leek, Lettuce, Onion, Parsnip, Peas, Potato, Radish, Spinach, Early Turnip.

**APRIL**—Sow in Hot-Bed—Cucumber, Egg Plant, Melon, Pepper, Tomato.

Sow in Open Ground—Asparagus, Beans, Beet, Cabbage, Carrot, Cauliflower, Celery, Sweet Corn, Cucumber, Cress, Endive, Kale, Kohlrabi, Leek, Lettuce, Melon, Onion, Parsley, Parsnip, Peas, Potato, Radish, Rhubarb, Salsify, Spinach, Tomato, Early Turnip, Sage, Herbs.

## Vegetable Seeds that May Be Sown in Each Month from January to October—

Continued.

**MAY—Sow in Open Ground—**Artichoke, Asparagus, English Beans, Pole Beans, Bush Beans, Beet, Brussels Sprouts, Cabbage, Carrot, Cauliflower, Celery, Sweet Corn, Cress, Cucumber, Endive, Kale, Kohlrabi, Leek, Lettuce, Melon, Nasturtium, Onion, Parsley, Parsnip, Peas, Potato, Pumpkin, Radish, Rhubarb, Salsify, Spinach, Squash, Tomato, Turnip, Herbs.

**JUNE—Sow in Open Ground—**Bush Beans, Lima Beans, Pole Beans, Beet, Carrot, Cabbage, Sweet Corn, Cress, Cucumber, Endive, Kale, Kohlrabi, Lettuce, Melon, Okra, Peas, Potato, Pumpkin, Radish, Salsify, Spinach, Squash, Turnip, Rutabaga.

**JULY—Sow in Open Ground—**Bush Beans, Beet, Carrot, Sweet Corn, Corn Salad, Cress, Cucumber, Endive, Gherkin, Kale, Kohlrabi, Lettuce, Okra, Early Peas, Pumpkin, Radish, Spinach, Squash, Turnip, Rutabaga.

**AUGUST—Sow in Open Ground—**Bush Beans, Corn Salad, Cucumber, Endive, Lettuce, Early Peas, Radish, Spinach, Turnip.

**SEPTEMBER—Sow in Open Ground—**Cabbage for Cold Frames, Cauliflower for Cold Frames, Corn Salad, Cress, Kale, Lettuce, Mustard, Winter Radish, Spinach, Turnip.

**OCTOBER—Sow in Open Ground—**Corn Salad, Cress, Kale, Lettuce, Mustard, Spinach.

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### Directions for Making a Hot-Bed.

In the vicinity of St. Louis, from the first to the middle of March is quite early enough to make a hot-bed and even a little later will do well enough. The time must vary according to the latitude. Provide a quantity of fresh horse manure from the stables, and add to this, if they can be had, one-third to one-half of its bulk of leaves. Mix them thoroughly, tramping down the mass of successive layers, and form into a large pile, so that fermentation will proceed, even in severely cold weather. In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation, or pit,  $2\frac{1}{2}$  feet deep, and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east, if possible. Hot-bed sashes are usually 6 x 3 feet, and one sash will generally give early plants enough for a large family. The frame for sashes should be 18 inches high at the back and 12 inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is placed in the pit and trodden down firmly in layers to the required depth, 2 to  $2\frac{1}{2}$  feet. Then put on the sashes, and keep the pit closed until the heat rises. At first it will probably be  $100^{\circ}$  or more, which is too hot to sow the seed in; but in two or three days it will subside to  $90^{\circ}$  or a little less, when the soil will be put on to the depth of 6 to 8 inches. The heat may be readily ascertained by plunging a thermometer into the manure. The soil should be of well-rotted sod (or common garden soil will do), mixed with about a third of fine, old manure, and in this the seeds may be sown thinly in drills 2 to 3 inches apart, and afterwards (as soon as out of the seed-leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back. Water with tepid water whenever necessary, and during cold nights and snow storms keep covered with straw mats or board shutters. Tomatoes, Peppers and Egg Plants should be sown in a separate frame from the Cabbage, Cauliflower and Lettuce, as they require more heat than the latter. The same directions may apply to hot-beds made on the surface of the ground, except that the manure should be at least a foot wider on all sides than the frame.

# BRIEF DIRECTIONS

For the Sowing  
and Culture of

# GARDEN VEGETABLES

For the Private Garden and for Exhibition.

## ASPARAGUS.

German, *Spargel*. French, *Asperge*. Spanish, *Esparragos*.  
1 ounce for 60 feet of drill.

Asparagus can be grown from seed, but the best way for the amateur to grow it is from roots, which can be planted any time for six to eight weeks from the opening of spring. Besides, a year or more can be saved by planting roots. For private use or for marketing on a small scale, beds should be formed five feet wide, with three rows planted in each, one in the middle and one on each side, a foot from the edge; the distance of the plants in the rows, 9 inches. The alleys between the beds should be two feet wide. In planting, a line is set and a cut made, a little slanting, to the depth of six or eight inches, according to the size of the plants. The plants are then laid against the side of the trench, at the distance already named (nine inches), care being taken to properly spread the roots. The crown or top of the plant should be covered about three inches. In a week or so after planting, the beds should be touched over lightly with a sharp steel rake, which will destroy the germinating weeds. The raking had better be continued at intervals of a week or so, until the plants start to grow, when the hoe or hand cultivator may be applied between the rows and alleys. The weeds that come up close to the plant must of necessity be pulled out by the hand. The deeper the soil and greater abundance of manure that is used, the greater will be the crop, for Asparagus is what the gardeners call a gross feeder. An application of one-half pound of salt per square yard annually, in spring, is very beneficial.

## BEANS, Dwarf or Bush.

German, *Bohne*. French, *Haricot*. Spanish, *Frijorenano*.  
1 qt. to 100 feet of drill;  $1\frac{1}{2}$  bushels to the acre in drills.

A succession of sowings can be made every two weeks from the second week in April until September. These dates are for the latitude of St. Louis. Further south the first sowing must be done earlier; further north, later. Plant in drills about two inches deep, and from eighteen inches to two feet apart, according to the richness

of the soil. The poorer the soil, the closer they can be planted. The seeds should be dropped about two inches apart in the drills.

FOR EXHIBITION.—Thoroughly manured, stiff, well-worked soil is preferable, with a liberal surface application of commercial fertilizer, high in potash, well raked in. When the plants have taken good hold of the soil, sprinkle around each plant about a tablespoonful of nitrate of soda and rake in. When fairly in bloom, liquid manure may be given; if pods are to be exhibited, thin out all but three or four to a stalk. When the pods begin to swell, pinch off the top of the plant, tie the plants to stakes to prevent the wind from loosening the roots and weakening the plant; the plants should stand a foot apart. For exhibition, they should be grown on sandy or gravelly soil and the plants at least two feet apart each way. Yosemite Mammoth Wax, Flageolet Wax, Long Yellow Six Weeks and Early Mohawk are the best varieties for exhibition.

## BEANS, Pole Lima, or Climbing.

German, *Stangen Bohnen*. French, *Haricot a Rames*.  
Spanish, *Judias*.  
1 qt. to 150 hills; 10 to 16 qts. to the acre in hills.

These are more tender and require rather more care in culture than the Bush varieties, and should be sown two weeks later. They succeed best in sandy loam, which should be liberally enriched with well-rotted manure in the hills, which are formed, according to variety, from three to four feet apart; from five to six seeds are planted in each hill, about two inches deep. As the matured bean is mostly used, the season is too short for succession crops in the North, though it is advantageous to plant succession crops in the Southern States, where the season of growth is often from March to November. Rough Cedar or similar poles about seven or eight feet long should be used for Pole Beans, especially the Limas, to climb on. They should be set in the ground at least eighteen inches, so as to prevent being blown over.

FOR EXHIBITION.—The plants should be freely watered with liquid manure and only a few pods desired for show should remain on the plant.

**BEET.**

German, *Runkel Rube*. French, *Betterave*.  
Spanish, *Betteraga*.

1 oz. to 50 feet of drill; 5 lbs. to the acre in drills.

The soil best suited for the culture of the Beet is that which is rather light than otherwise, always provided that it is thoroughly enriched with well-rotted manure. For an early supply, sow in spring, as soon as the ground is fit to work, in drills about one foot apart and two inches deep. For main crop, sow the first week in April, and for winter use, sow in June. These dates are for the latitude of St. Louis. For the South, sow earlier; for the North, later. When the plants have attained three or four leaves, thin out so that they may stand five or six inches apart. Keep free from weeds. In October the roots may be taken up and stored in cellars or pits outside.

FOR EXHIBITION.—Salt applied to the soil some time before sowing, and in small quantities during the growing season, will prove beneficial. Fresh manuring should be avoided, liquid manure should be given, but not close to the roots, as it would encourage side roots. The plants should stand not closer than ten inches apart, in rows one and a half feet apart. Mangels or Field Beets should stand two feet apart, in rows three feet apart. If the soil has any small stones or pebbles in it, they should be sifted out where the roots are to grow, so they will come out smooth and free from indentations. For the large, long varieties, the soil should be two to three feet in depth, and holes prepared as recommended for Carrots.

**BRUSSELS SPROUTS.**

German, *Kopfkohl Gruner*. French, *Chou de Bruxelles*.

Sow outside in drills, in April or May and transplant two feet apart in July. Cultivate same as Cabbage; thus it may be had in fine condition from October until December, and in the Southern States may be had in use from November to March.

**CABBAGE.**

German, *Kopfkohl*. French, *Chou Pomme*.  
Spanish, *Repollo*.

1 oz. will produce 1,500 plants; half pound to transplant for an acre.

The early varieties of Cabbage are cultivated more extensively than any other vegetable. In latitudes where the thermometer never indicates twenty degrees 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 our 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 Septem-

ber. 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. This earliest crop matures in June. For second early, the early kinds should be sown first week in April and planted out in May. This crop should mature in July and August. The late varieties are usually sown in the early part of May, and the plants are set in July, at distances of three feet between the rows and two feet between the plants. This crop matures September, October or November.

FOR EXHIBITION.—Grow Henderson's Early Spring, Henderson's Succession and Dickmann Seed Co.'s Giant Summer. Sprinkle around the plants, every few weeks, some of our Garden Fertilizer and water frequently with liquid manure. If Cabbage or other plants of this nature have been grown on the ground before, it is well to give a liberal dressing of lime to guard against club root.

**CAULIFLOWER.**

German, *Blumen-Kohl*. French, *Choufleur*.  
Spanish, *Coliflor*.

1 oz. will produce about 1,000 plants.

Any soil that will grow Cabbage will grow Cauliflower, as their requirements are almost similar; but as the product is more valuable, extra manuring and preparation of the soil will be well repaid.

The seed may be sown in September and wintered over in the same manner as described for early Cabbage. Where this is not practicable, it may be had nearly as well by sowing the seeds in the hot-bed in January or February, and transplanting the plants at two or three inches apart in boxes or in the soil of another hot-bed, until such time as they are safe to be planted in the open ground, which, in this latitude, is usually from the 15th of March to the 10th of April. If properly hardened off, they are seldom injured by planting out too early. For second early and late crop, sow at same date as given in the directions for Cabbage crop.

FOR EXHIBITION.—Follow directions given for Cabbage. Henderson's Early Snowball, whether grown as an early or late variety, is the best for exhibition.



**CARROT.**

German, *Mohre*. French, *Carotte*. Spanish, *Zanahoria*.

1 oz. for 125 feet of drill; 4 lbs. for an acre.

The Carrot, like other root crops, delights in a sandy loam, richly tilled. For early crops, sow in spring, as soon as the ground is in good working order; for later crops they may be sown any time until the middle of June. Sow in rows about fifteen inches apart, thinning out to three or four inches between the plants. In field culture, when grown for horses or cattle, the rows should be two feet apart, so that the crop can be worked with the horse cultivator. As Carrot seed is slow to germinate, extra precautions must be taken to firm the seed in the soil.

FOR EXHIBITION.—By means of a crowbar, holes are made in the ordinary garden soil. These holes should be made when the soil is dry, and may be two to three feet deep and three to four inches across at the top. Fill the holes with sifted soil, so the roots will come out smooth and free from indentations caused by lumps and pebbles. The soil should be composed of equal parts of sand, leaf-mould, well-rotted manure and turfy loam, and an addition of about 5 per cent of our Garden Fertilizer. Sow five or six grains on top of each place thus prepared, covering about one-quarter inch. When the plants appear, thin out, leaving only one plant at the center. This method may also be used for Parsnips and Long Beets.

**CELERY.**

German, *Seleri*. French, *Celeri*. Spanish, *Apis*.

1 oz. for 3,000 plants.

Sow in the open ground as soon as it is fit to work in April, and keep carefully clear of weeds until time of transplanting in June or July. The tops should be shorn once or twice before transplanting, so as to insure "stocky" plants. The lower half of the root should also be cut off before transplanting.

After the ground has been prepared, lines are made on the level surface three feet apart, and the plants set six inches apart in the lines. If the weather be dry at the time of planting, great care should be taken that the roots are properly "firmed." Our custom is to turn back on the row and press by the side of each plant gently with the foot. This compacts the soil and excludes the air from the roots until new rootlets are formed, which will usually be in forty-eight hours, after which all danger is over. After the planting of the Celery is completed, nothing further is to be done for six or seven weeks, except going through between the rows with a cultivator or hoe, and freeing the plants of weeds until they get strong

enough to crowd them down. This will bring us to about the middle of August, by which time we have usually that moist and cool atmosphere essential to the growth of Celery. Then we begin the "earthing-up" necessary for the blanching and whitening of that which is wanted for use during the months of September, October and November. The first operation is that of "handling," as we term it; that is, after all the soil has been drawn up against the plant with a hoe, it is further drawn close around each plant by the hand, firm enough to keep the leaves in an upright position and prevent them from spreading. This being done, more soil is drawn against the row (either by the plow or hoe, as circumstances require), so as to keep the plant in this upright position. The blanching process must, however, be finished by the spade, which is done by digging the soil from between the rows and banking it up clear to the top on each side of the row of Celery. Three feet is ample distance between the dwarf varieties, but when larger sorts are used the width of the rows must be at least four and a half or five feet.

**CORN, Sugar.**

German, *Welschkorn*. French, *Mais*. Spanish, *Maiz*.

1 qt. for 200 hills; 8 to 10 qts. in hills for an acre.

All varieties of Sweet, or Sugar, Corn may be either sown in rows four and a half feet apart and the seeds placed about eight inches apart in the rows, or planted in hills at distances of three or four feet each way, according to the variety grown or the richness of the soil in which it is planted. The taller the variety, or the richer the soil, the greater should be the distance apart. We make our first plantings in this vicinity about the middle of May and continue successive plantings every two or three weeks until the last week in July. In more southerly latitudes planting is begun a month earlier and continued a month later.

FOR EXHIBITION.—Plant six feet apart in very rich soil, allowing only one ear to each plant. Country Gentleman, Stowell's Evergreen and Mammoth Sugar are the best for exhibition. Water occasionally with liquid manure.

**CRESS, or Pepper Grass.**

German, *Kresse*. French, *Cresson*. Spanish, *Mastruco*.

A well-known, pungent salad. Requires to be sown thickly in rows and covered very slightly. Sow in April in open ground in rows one foot apart, and thin out as needed. To keep up a succession, sow frequently, as all varieties deteriorate rapidly.

**CUCUMBER.**

German, *Gurke*. French, *Concombre*.  
Spanish, *Cohombro*.

1 oz. for 60 hills; 2 to 3 lbs. in hills for an acre.

Cucumbers succeed best in warm, rich, sandy loam. They should not be planted in the open air until there is a prospect of settled warm weather, in the vicinity of St. Louis about the middle of May. Plant in hills about four feet apart each way. The hills should be previously prepared by mixing with the soil of each a shovelful of well-rotted manure. Plant eight or ten seeds in each hill. When all danger from insects is past, thin out the plants, leaving three or four of the strongest to each hill. The fruit should be gathered when large enough, whether required for use or not, as, if left to ripen on the vines, it destroys their productiveness.

FOR EXHIBITION.—The White Spine is most handsome. Not more than two or three fruits should be allowed to grow on each vine, and superfluous growth of vine should be removed in order to throw all the strength into the fruit.

**EGG PLANT.**

German, *Eierpflanze*. French, *Aubergine*.  
Spanish, *Berengena*.

1 oz. for 1,000 plants.

The Egg Plant will thrive well in any good garden soil, but will repay good treatment. The seed should be sown in hot-beds or warm greenhouse in March or April, and when about an inch high, pot in two-inch pots. Plant out, about June 1st, two and a half feet apart. If no hot-bed is at hand, they can be grown in any light room where the temperature will average seventy-five degrees.

FOR EXHIBITION.—The New York Improved Spineless is unsurpassed. Set the plants three to four feet apart and water with liquid manure, allowing not more than two fruits to each plant.

**ENDIVE.**

German, *Endivien*. French, *Chicoree*.  
Spanish, *Endivia*.

1 oz. for 100 feet of drill, or 2,000 plants.

Endive is one of the best salads for Fall and Winter use. Sow for an early supply about the middle of April. As it is used mostly in the Fall months, the main sowings are made in June and July and transplanted one foot apart each way when of sufficient size. It requires no special soil or manure, and after transplanting, if kept clear of weeds until the plant has attained its full size, the process of blanching begins. This is effected by gathering up the leaves and tying them by their tips in conical form, with Raphia. This excludes the light and air from the inner leaves, which become blanched in the course of from three to six weeks, according to the temperature at the time. Another and more simple method consists in laying slats or boards on the plants as they grow, which serves the same purpose as the tying up. It can also be grown by sowing the seed and thinning out to one foot apart each way, as recommended for Lettuce.

**KALE, or Borecole.**

German, *Blatter-Kohl*. French, *Chou Vert*.  
Spanish, *Breton*.

1 oz. will sow 150 feet of drill.

Kale, or Borecole, may be grown in almost any soil, but the richer it is the more abundant the product. If wanted for use in late Fall or early Winter, sow early in June and transplant as directed for Cabbage, middle of July. If needed for Spring use, sow Siberian about middle of August and transplant a month later. Of all the Cabbage tribe this is the most tender and delicate, and would be much more extensively grown than it is, if its excellent qualities were generally known. The varieties are all extremely hardy, and are best when touched by frost.

**LEEK.**

German, *Lauch*. French, *Poireau*. Spanish, *Puerro*.

1 oz. will sow 100 feet of drill.

The Leek is very hardy and easily cultivated; it succeeds best in a light but well-enriched soil. Sow as early in Spring as practicable, in drills one inch deep and one foot apart. When six or eight inches high they may be transplanted in rows ten inches apart each way, as deep as possible, that the neck, being covered, may be blanched. If fine Leeks be desired, the ground can hardly be made too rich, for the Leek is a gross feeder.

**LETTUCE.**

German, *Lattich*. French, *Laitue*. Spanish, *Lechuga*.

1 oz. for 3,000 plants.

The cultivation of Lettuce is universal by all who have gardens, and from its tractable nature and freedom from nearly all insects and diseases, it is manageable in the hands of every one. For early crop, seed may be sown in the open ground in the middle of September, and transplanted to cold frames as soon as large enough to handle, being wintered over in the same manner as early Cabbage. Seeds may be sown in well-protected frames in February and in hot-beds in March, and by careful covering up at night will make fine plants by April for Spring planting. But for ordinary private use in the Summer months, the simplest way is to sow it thinly in rows one foot apart, early in the Spring, and thin out the plants so that they will stand one foot apart. This is easier than transplanting, and if sown every two or three weeks from the middle of April to the middle of August, Lettuce may be had in perfection the whole season. Lettuce plants may be saved over the Winter without glass covering in Southern parts of the country, in dry, well-sheltered spots, by covering with leaves or litter late in the season.

**MELON, Musk.**

German, *Melone*. French, *Melon*. Spanish, *Melón*.  
1 oz. for 60 hills; 2 to 3 lbs. in hills for an acre.

Melons thrive best in a moderately enriched light soil; the hills should be from three to six feet apart each way, according to the richness of the soil. If soil is poor or sandy, plant at four feet. Previous to planting, incorporate well with the soil in each hill a couple of shovelfuls of thoroughly rotted manure; plant eight or ten seeds in each hill early in May, for latitude of St. Louis; for south earlier, for further north later, and when well up thin out to three or four of the most promising.

**MELON, Water.**

German, *Wasser-Melone*. French, *Melon d'Eau*.  
Spanish, *Sandia*.

1 oz. for 30 hills; 4 to 5 lbs. in hills for an acre.

Water Melons require a rich though rather sandy soil for best development, and thrive best in warm latitudes, growing best in the Southern or Southwestern States, although in warm, sandy soils in this latitude fine crops are often obtained from northern-grown seed. Cultivate exactly as for Musk Melons, except that the hills should be eight and ten feet apart.

**OKRA, or Gumbo.**

German, *Essbarer*. French, *Gombo*.  
Spanish, *Quibombo*.

It is of the easiest culture, and grows freely, bearing abundantly in any garden soil. It is sown at the usual time of all tender vegetables—in this section middle of May—in drills two inches deep, thinning the plants from two to three feet apart in row.

**ONION.**

German, *Zwiebel*. French, *Oignon*. Spanish, *Cebolla*.  
1 oz. for 100 feet of drill; 5 or 6 lbs. in drills for an acre.

The Onion thrives best in a rather deep, rich, loamy soil. The best culture requires that the ground should be deeply trenched or ploughed and manured the previous Autumn, and laid up in ridges during the Winter to pulverize. As early in the Spring as the ground is in working order, commence operations by leveling the ground with a harrow or rake, and roll or tread it firmly; sow thinly in drills, about a quarter of an inch deep and one foot apart; cover with fine soil and press down with the back of a spade, or a light roller, or with the foot, along each row. When the young plants are strong enough, thin gradually so that they stand three or four inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir the soil too deeply or to collect it about the growing bulbs.

**PARSLEY.**

German, *Petersilie*. French, *Persil*. Spanish, *Perejil*.  
1 oz. for 150 feet of drill.

Parsley succeeds best in a rich, mellow soil. As the seed germinates very slowly, three or four weeks elapsing sometimes before it makes its appearance, it should be sown early in spring, great care being taken that the drills be not more than an inch in depth and that the seed be well pressed down after sowing. Sow thickly in rows a foot apart and half an inch deep. For winter use, protect in a frame or light cellar, or a few plants may be placed in pots or boxes and kept in the house for convenient use in Winter.

**PARSNIP.**

German, *Pastinake*. French, *Panais*.  
Spanish, *Pastinaca*.

1 oz. for 200 feet of drill; 5 to 6 lbs. in drills for an acre.

Sow as early in Spring as the weather will admit, in drills eighteen inches apart, covering half an inch deep. 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 and store as directed for Turnips, leaving the rest in the ground until Spring to be dug up as required.

**PEAS.**

German, *Erbse*. French, *Pois*. Spanish, *Guizante*.  
1 qt. for 75 feet of drill; 2 to 3 bushels in drills for an acre.

Peas come earlier to maturity in light, rich soil. For general crop, a deep loam, or a soil strongly inclining to clay, is best. For early crops, decomposed leaves or leaf-mould, if convenient, may be used; or, if the soil is very poor, well-rotted manure should be used. For general crop, a good dressing should be applied, and for the dwarf growing kinds the soil can hardly be too rich. When grown as a market crop, Peas are sown in single rows, two or three inches deep and from two to three feet apart, according to height of variety or the strength of the soil. When grown in small quantities for private use, they are generally sown in double rows, six or eight inches apart, and the tall varieties staked up by brush or Pea Trellis. For an early crop, sow in February, March or April, according to latitude, as soon as the ground can be worked, and make repeated sowings every two weeks for succession. After the first of June sowing should be discontinued until August, when a good crop may sometimes be secured by sowing an extra early sort for fall use.

**PEPPER.**

German, *Pfeffer*. French, *Piment*. Spanish, *Pimiento*.  
Requires exactly the same treatment as directed for Egg Plant.

FOR EXHIBITION.—Ruby King, Sweet Spanish and Bull Nose are the most desirable and attractive varieties. The plants should stand two and one-half to three feet apart to admit abundance of sunlight. Plenty of manure or fertilizer should be worked into the soil around the roots, and frequent applications of liquid manure should be given.

**PUMPKIN.**

German, *Kurbis*. French, *Courge*. Spanish, *Calabaza*.  
1 oz. for 30 to 50 hills.

Pumpkins are now principally cultivated for agricultural purposes. They are usually planted in fields of corn or potatoes, but may be profitably raised in fields by themselves. Sow first of May in this latitude, in hills eight feet apart.

**RADISH.**

German, *Rettig*, *Radieschen*. French, *Radis*, *Rave*, *Petit Rave*. Spanish, *Rabano*.

1 oz. for 100 feet of drill; 9 to 10 lbs. in drills for an acre.

Radishes thrive best in a light, sandy loam. Heavy or clayey soils not only delay their maturity but produce crops much inferior, both in appearance and flavor. For a continuous supply sow from the middle of March until September, at intervals of two or three weeks. For an early supply they may be sown in a hot-bed in February, care being taken to give plenty of ventilation, otherwise they will run to leaves. If plaster is incorporated with the soil in the rows at time of sowing the seed, the Radishes will always turn out brighter in color, crisper and of better quality.

**RHUBARB.**

German, *Rhabarber*. French, *Rhubarbe*.  
Spanish, *Ruibarbo Bastardo*.

Sow in April, in drills a foot apart, thinning out to about the same distance apart in rows when a few inches high. The following spring transplant into deep, rich soil, about three feet apart each way. If propagated by dividing the roots, it may be done either in fall or spring, planting it at the same distance apart as given above. The soil can not be too rich.

**SALSIFY, or Oyster Plant.**

German, *Bocksbart*.  
French, *Salsifis*, Spanish, *Ostra Vegetal*.

1 oz. to 75 feet of drill.

The Oyster Plant succeeds best in light, well-enriched, mellow soil, which, previous to sowing the seeds, should be stirred to a depth of eighteen inches. Sow early in spring, in drills eighteen inches apart; cover the seeds with fine soil an inch and a half in depth, and when the plants are strong enough, thin out to six inches apart.

**SPINACH.**

German, *Spinat*. French, *Epinard*. Spanish, *Espinaca*.

1 oz. for 100 feet of drill; 10 to 12 lbs. in drills for an acre.

Sow thinly in rows about twelve or fifteen inches apart. The main crop is sown in September. It is sometimes covered up in exposed places with straw or salt hay during winter, which prevents it from being cut with the frost, but in sheltered fields there is no necessity for covering. For summer use it may be sown at intervals of two or three weeks, from April to August. Spinach is best developed and most tender and succulent when grown in rich soil.

**SQUASH.**

German, *Kurbiss*. French, *Courge*.  
Spanish, *Calabasa Tomtanera*.

1 oz. for 50 hills; 3 to 4 lbs. in hills for an acre.

It is useless to sow until the weather has become settled and warm. Light, rich soils are best suited to their growth, and it is most economical of manure to prepare hills for the seeds in the ordinary manner by incorporating two or three shovelfuls of well-rotted manure with the soil for each hill, as is done for Melons. For bush varieties, from three to four feet each way, and for the running sorts, from eight to ten feet. Eight or ten seeds should be sown in each hill, thinning out after they have attained their third and fourth leaves, leaving three or four of the strongest plants.

**TOMATO.**

German, *Liebesapfel*. French, *Tomate*.  
Spanish, *Tomate*.

1 oz. for 1,500 plants;  $\frac{1}{4}$  lb. to transplant for an acre.

The seed should be sown early in March in a hot-bed, greenhouse, or inside the window of sifting-room, where a night temperature of not less than sixty degrees is kept, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out three inches apart in boxes three inches deep, or potted into three-inch pots, allowing a single plant to a pot. They are sometimes shifted 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 rotten 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. Tomatoes will always produce greater crops and be of better flavor when staked up, or when trained against walls or fences.

**TURNIP.**

German, *Steekrube*. French, *Navet*.  
Spanish, *Nabo Coman*.

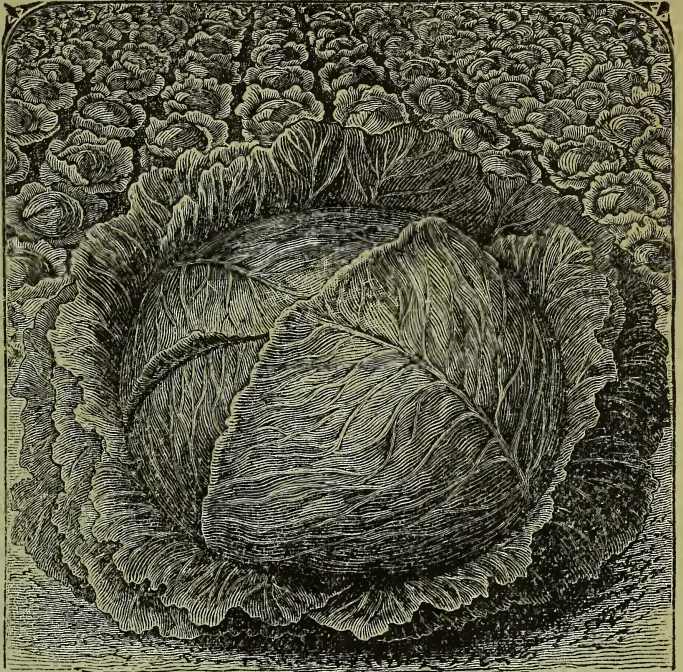
1 oz. to 150 feet of drill; 1 to 2 lbs. per acre in drills.

Turnips do best in highly enriched, light, sandy or gravelly soil; commence sowing the earliest varieties in April in drills, from twelve to fifteen inches apart, and thin out early to six or nine inches in the rows. For a succession, sow at intervals of a fortnight until the last week in May for early crop, and from August to September for late. August sowings may be made for the Fall and main crops. Turnips may be preserved until Spring by cutting off the tops about one inch from the bulb and storing them in a cellar or cool shed during Winter, covering the roots with dry sand; they should be harvested before severe frosts set in, for, though comparatively hardy, few of the varieties will survive the Winters of the Northern States in the open ground.

# SEEDS OF SPECIAL MERIT

## LATE FRENCH MARKET.

This is the original Late French Market Cabbage Seed. Two years ago we bought a quarter pound of this original stock seed at a very high price, from one of our French friends, and sent it to one of America's best Cabbage Seed growers, on Long Island. We have a limited quantity to offer this season. A trial will convince you that this is the **only Late Cabbage** to grow.



LATE FRENCH MARKET CABBAGE.

It is much later than any other, and will keep better than any other. Per ounce, 40c.; per quarter pound, \$1.50; per pound, \$5.00.

## IMPROVED LONG GREEN CUCUMBER.

This is one of the best Cucumbers; dark green, long fruit of excellent quality; good for early or late. Per packet, 5c.; per ounce, 10c.; per quarter pound, 20c.; per pound, 65c.



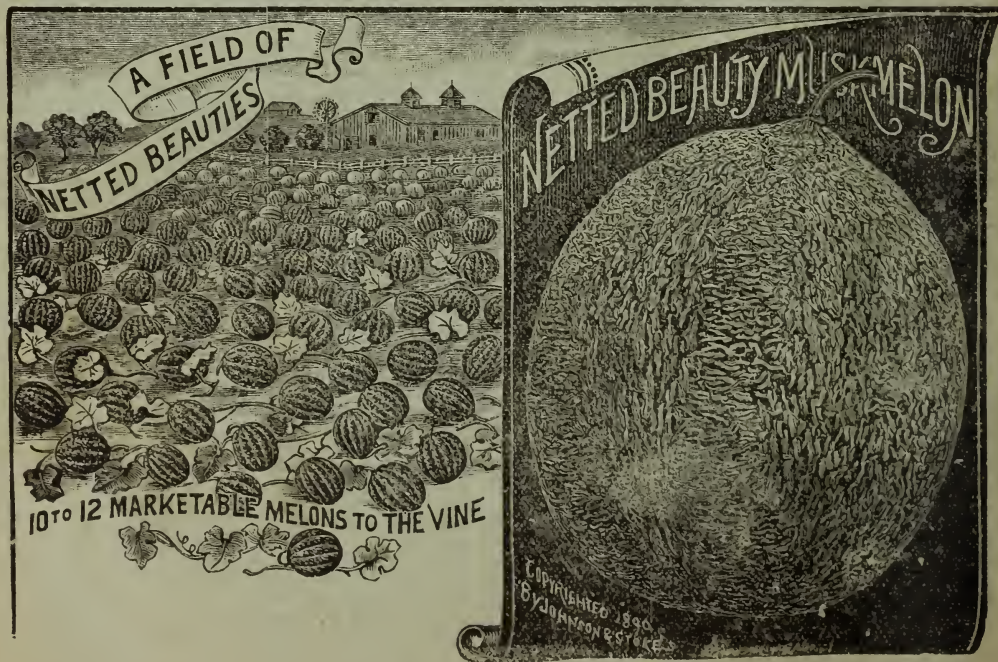
IMPROVED LONG GREEN CUCUMBERS.

**GOOD Seed** is the most important item to a gardener or farmer. From them the products that bring their profits are produced. Buy our Seeds and increase your profits.



The Best and  
Largest of all the  
Savoy Cabbages.

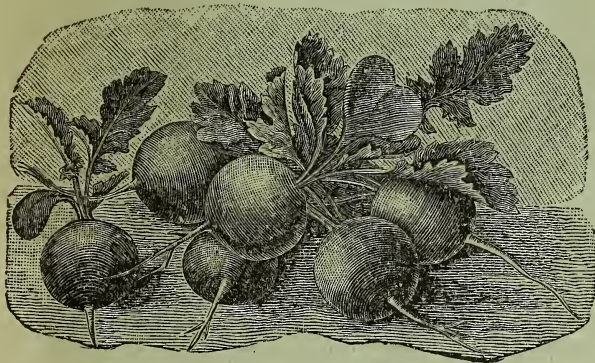
AMERICAN DRUMHEAD SAVOY. The largest heading Savoy; of excellent flavor, and a general favorite with market gardeners and truckers. Pkt., 10c; oz., 30c; 1/4 lb., \$1.00; 1 lb., \$3.25.



This is one of the earliest Musk Melons; very productive; densely netted; free from ribs.  
Per oz., 10c; 1/4 lb., 25c; 1 lb., 90c.

## LETTUCE.

**ST. LOUIS BLACK-SEEDED FORCING.** This is the leading forcing variety with St. Louis market gardeners, and should be used by all who grow Head Lettuce for the market. It is the best for forcing under glass or early planting outdoors. Plants medium size, having thick green leaves, and when well grown forming very compact, solid heads. Pkt., 5c; oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.



NE PLUS ULTRA RADISH.

## RADISH.

**NE PLUS ULTRA, OR EARLY DEEP SCARLET TURNIP, FORCING.** This has as small a top, and is as early as any variety in cultivation, making it one of the best for forcing. Roots fit for use may be had in three weeks, or less, from the time of sowing. Roots small, globular; deep, rich red color; flesh white, crisp and tender when young. May be planted very closely, owing to its small tops. Oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 90c.

## Dickmann Seed Co.'s St. Louis Market Lettuce

**DICKMANN SEED CO.'S ST. LOUIS MARKET LETTUCE** is one of the best for all purposes. It can not be recommended too highly. Good for forcing and out of doors. A solid heading sort. Will not grow into seed as quick as other Lettuce. Will stand the heat through the hot Summer months. There is a good deal of St. Louis Market Lettuce sold by other seedsmen, BUT NOT THIS ORIGINAL STRAIN. No gardener can afford to be without this, THE BEST OF ALL LETTUCES, not only sold under that name, but the genuine stock. A small trial will convince you. Oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.75.

Here is an Unsolicited Letter from one of our Leading Gardeners.

St. Louis, May 31, 1895.

Mr. Jos. F. Dickmann, City.

DEAR SIR—I have sold the first St. Louis Market Lettuce raised from the seed I bought of you. It turned out fine. I am satisfied that none can be bought in St. Louis, or anywhere else, that would surpass it in quality. I therefore recommend it to all gardeners as the genuine St. Louis Market Lettuce.

Most respectfully,

JOHN R. WUEBOLD.



DICKMANN'S ST. LOUIS MARKET LETTUCE.

## NEW TOMATOES.

It is false economy to try to save on the first cost of Tomato Seed—a little seed goes so far. And yet the country is almost "flooded" with cheap Tomato Seed, saved without any regard to selection, and sometimes even the refuse of canning establishments. Our Tomatoes are grown especially for seed, and *actually cost us more than double* the prices at which we are offered annually so-called "pure seed cheap." "A word to the wise is sufficient."

**WHITE'S EXCELSIOR.** Described as follows by the originator, Mr. White, who has made a specialty of growing and perfecting this Tomato for years, and is confident that this variety is a great improvement over all other Purple Tomatoes:

"The vine is dark green, grows rapid and to a great size, bears a heavier crop than any other purple variety, and continues bearing until killed by frost. The fruits are a beautiful glossy dark or purple red, very large, set in great clusters, and retain their size until the end of the season. The seed cavity in the fruits is so small that they are nearly solid, unlike other purple Tomatoes, the skin is tough and they will bear long shipments and hold their firmness several days longer than any other variety. This is a great advantage for the local market, as well as for shipping. Is free from cracking, and ripens up evenly around the stem. The fruits of this variety are the most beautiful, most uniform, and have a greater diameter than any other Tomato. Many varieties are too long or too thin for their circumference. This objection is removed in the Excelsior."

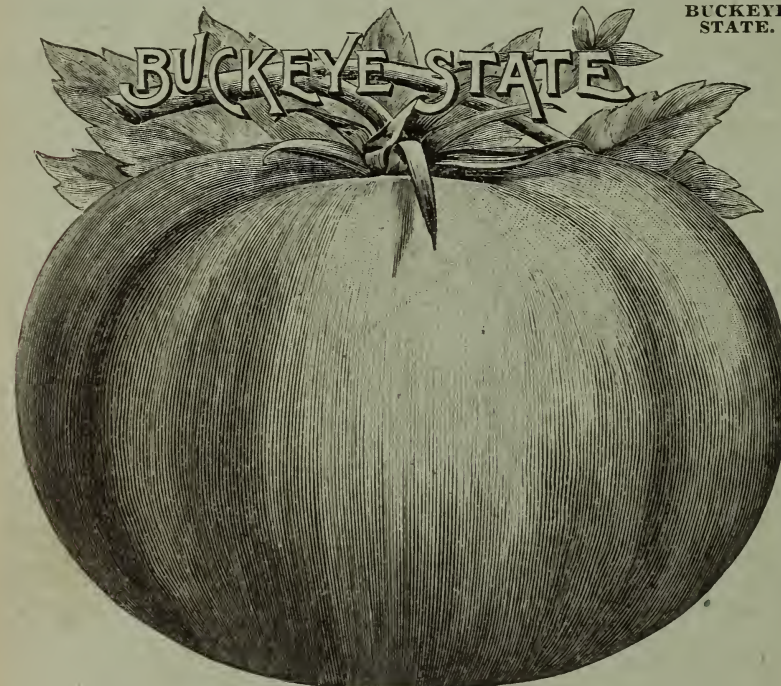
Our stock is grown for us by the originator, and all seed of this variety offered this season has its percentage in or from one 18-ounce Tomato grown by the originator last year that shows how carefully this variety is bred. Pkt., 5c; oz., 35c;  $\frac{1}{4}$  lb., \$1.25; lb., \$4.00. Prices given include postage or free delivery.



WHITE'S EXCELSIOR NEW TOMATO.

**BUCKEYE STATE.** Described as follows by the originator:

"It averages at least double the size of Livingston's Beauty. We have always held that no matter how large a sort may be, if it is rough and uneven, it is of little value. Many mammoth sorts have been introduced of late, but the market gardener rejects them as unfitted for his business on account of their roughness. In addition to its very large size, it is also smooth and uniform. This is not all, however, for although its large size might lead some to believe the fruits are few in number, yet the fact is, it is even more prolific and abundant than the standard sorts now in cultivation. It is unquestionably the heaviest cropper known. The Tomatoes are borne in immense clusters of four to eight fruits, and occasionally ten large, perfect fruits have been found on a single cluster. In time of ripening, it matures with Livingston's Stone. In solidity and quality, none surpasses it. The color is much the same as our Beauty, but of a richer shade, and this, together with its very large and clear-cut outlines, makes it very showy and striking. In shape, it is a little thicker from blossom end to stem than most



THE NEW BUCKEYE STATE TOMATO.

other sorts. The past season we grew this variety by the ordinary method, as well as on stakes, and they were the admiration of all who visited our grounds, and nearly every caller insisted on having 'just one for seed,' or to carry home to show friends." With the above characteristics, it must be apparent to all that the Buckeye State will immediately take its place in the front rank, and should not be omitted from a single order. Do not simply experiment with this variety this season (we have already done that for you), but order sufficient to grow a good portion of your crop. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.25. Prices given include postage or free delivery.



## THE MATCHLESS TOMATO.

The vines are of strong, vigorous growth, well set with fruit; the foliage is very rich dark green in color. The engraving accurately shows the shape and also the remarkable solidity of a section. They are entirely free from core, of a very rich cardinal red color, and are not liable to crack from wet weather. The fruits are of the largest size, and this is maintained throughout the season, the healthy growth of foliage continuing until killed by frost. Per packet, 5c.; per ounce, 30c., per quarter pound, \$1.00; per pound, \$3.50.

## NEW MUSK MELON—PAUL ROSE.

In the "Paul Rose" we are offering the best orange-fleshed Musk Melon introduced for many years. It is a cross of the Osage with the Netted Gem, and combines the sweetness of the former with the fine netting of the Gem. It also has a firmness of rind and "cheesy" structure of flesh peculiarly its own, and is superior in these respects to many melons in existence. It surpasses many melons as a shipper and long keeper, and no other melon equals it in smallness of seed cavity or approaches it in firmness. It is uniform in shape and averages about five inches in diameter, weighing about one and a half pounds. It is an excellent seller and brings better prices than any other orange-fleshed

melon. Per packet, 10c.; per ounce, 25c.; per quarter pound, 75c.; per pound, \$2.50, postpaid.

## TWO NEW MILLETS FROM DAKOTA.

### THE NEW SIBERIAN and the BROOM CORN or HOG MILLET.

**THE NEW SIBERIAN** is claimed to be a most wonderfully productive and satisfactory forage plant, possessing in a superior degree all the essential merits of any of the older sorts—exceeding them by far—besides many other points of excellence that distinguish it and render it a most valuable addition to the list of forages, and if the claims are well founded, destine it to take front rank, if not lead all the rest.

It is said to have come from Russia, which would, of course, give it a degree of vigor and hardiness not possessed by those originating in a warm climate. The claims made for it by its introducers, and by parties who have been growing it in small quantities for a few years in Missouri, Kansas, Nebraska and Illinois, are substantially as follows:

1. That it is from two or three weeks earlier than the German millet, thereby making a crop when the latter may fail on account of unfavorable weather at the time of maturing.
2. That it grows an extra fine stalk, with a wonderful profusion of blades, being of a stooing habit, forty-one stalks having, it is said, been grown from one seed, which is remarkable indeed.
3. That it has been known to yield from twenty acres 905 bushels of seed, while as much as three to four tons and over of the choicest hay have been cut from one acre of ground.
4. That coming from Russia, a cold climate, the seed possesses a vitality and vigor not found in seed originating in a warm climate.
5. That the seed of the New Siberian Millet being so much smaller than that of other sorts, the cost is lessened greatly in quantity of seed required per acre, which is given as only four quarts if wanted for seed and from six to eight if wanted for hay, according as it is drilled or broadcast.
6. That it not only grows much taller than any other millet (four feet or over), and though the average length of the head is six inches, yet the stalk is elastic and stands up well, a point of excellence worthy of note.
7. That it is rust-proof, and that cinch bugs do not relish it, but that stock eat it as readily as other kinds, and waste much less in the feeding, owing to the fineness of the stalks.

Reports from the Brookings (S. D.) Agricultural Experiment Station bulletin on Millets, under date of May, 1898, speak of the New Siberian as "the most promising variety yet tested."

**DESCRIPTION.**—Plant, about four feet in height; blades, pea-green color, very profuse; stalk, fine and very elastic; heads, about six inches in length; seeds, of reddish brown color; habits of growth, stooing to a remarkable degree; not subject to rust; maturity, first crop about July or August.

It has also been tried in a limited way in several other States, as well as in Canada, and all reports unite in giving it unstinted praise, and the up-to-date farmer can not, it would seem, afford to let this chance slip to be among the first to secure such a valuable and promising addition to the list of plants for stock food. Its early maturity brings it into use at a time when other green feed is scarce, as is often the case in Kansas and the Southwest during the months of July and August, while its drouth-resisting qualities render it a much more certain crop than the other sorts. Evidently the **NEW SIBERIAN** is to be the Millet of the future. The supply of this new variety is very scarce and we have, at considerable trouble and expense, secured a limited quantity, which we offer at these very low prices: Per pound, 10c.; per 10 pounds, 65c.; per 100 pounds \$4.00, f.o.b. St. Louis.

“CUPID” SWEET PEA.

Giant Imperial Japanese Morning Glories.



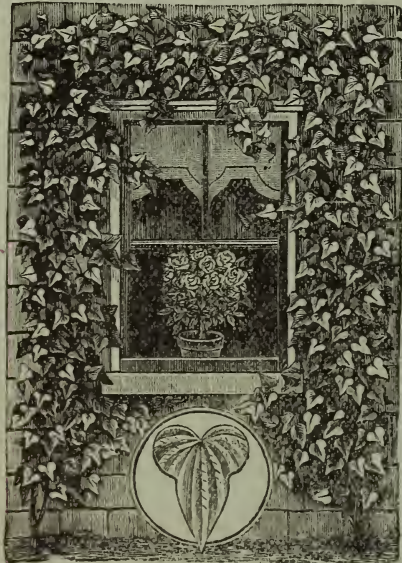
The First Form of a Dwarf Sweet Pea. This is a novelty of unusual importance. It is a Dwarf Sweet Pea, the plant growing only 5 inches high, yet spreading out and forming a solid mat of foliage and flowers 1½ feet across. The blossoms are pure milk white, very sweet, of largest size and great substance, and borne on stems 4 inches long, 3 flowers on each stem. It begins to bloom as early as May, and, unlike the climbing Sweet Peas, continues in profusion until killed by frost. This is a remarkable feature, and makes it at once one of the most superb plants for bedding, massing and edging in cultivation. For pot culture, also, it is of great value, being novel, unique, fragrant, always full of flowers and superlatively beautiful. Small pkts., 5c; large pkts., 10c.



Mixed Colors. Many beautiful varieties are included in this, different from those shown on the plate; there are solid colors, ranging through reds from s. ft rose to crimson, bronze and garnet maroon; from daintiest light blue to ultramarine, indigo and blackish purple; from snow white to cream and silver gray. Some are striped, blotched and spotted; others have magnificent edges and throats; including purple, with white edge and red throat; white flushed pink, with wine red throat; carmine, with white edge and red shaded throat; garnet, with white throat; copper color, with white throat, etc. Pkt., 10c

DOUBLE-FLOWERING MORNING GLORIES. Mixed Colors. Per pkt., 10c.

THE BEAUTIFUL CINNAMON VINE.



The Cinnamon Vine is one of the most charming of climbers and will quickly cover an arbor, window or veranda with a great profusion of vines and sweet-scented flowers, making it a perfect bower of beauty. The vine is perfectly hardy, and once planted will grow for many years, and be a source of constant delight to the possessor. There is nothing that will give a home a more homelike and cozy appearance, or be a surer index of refinement and culture, than beautiful vines twining about the porch and trellises.

Prices of the Cinnamon Vine. We will mail three nice roots or tubes for 30c; six for 50c; 12 for \$1.00; 30 for \$2.00; 100 for \$5.00 (no order filled for less than three roots). We pack them carefully in boxes, and guarantee safe arrival.

BONNET GOURDS.



Rapid-growing vines, producing a great variety of curious fruits, some of which are quite useful, and others are valued for the rich, variegated markings. These markings retain their bright colorings for years if fruits are gathered in the fall and thoroughly dried in a cool, airy place. Seed should be sown in hills or slightly raised borders when the weather becomes warm and the trees are out in full leaf, and should have a trellis or brush support on which to climb. Large pkt., 10c.

# VEGETABLE SEEDS.

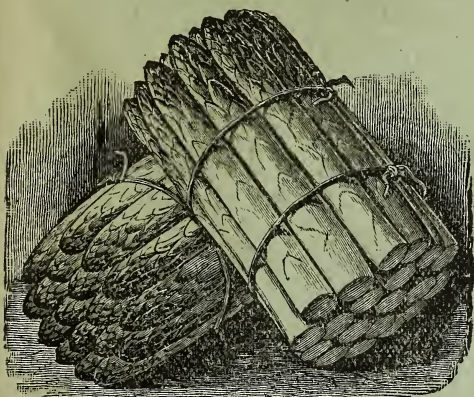
Fresh and True to Name. Crop 1899.

The prices quoted are those ruling this month, January, 1900. Fluctuations may be expected; as the season advances many articles are short and scarce.

Jos. F. Dickmann Seed Company give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants they send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

All seeds in this list can be had in 5-cent packages.

We sell one-quarter pound at one-pound rates.



PALMETTO ASPARAGUS.

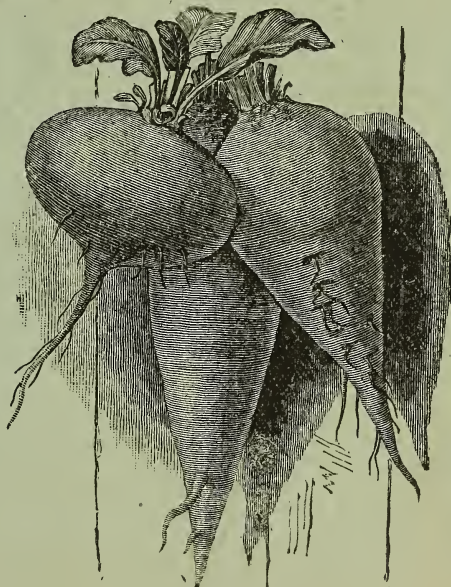
## ASPARAGUS. Spargel.

	Oz.	Lb.
<b>COLOSSAL.</b> The most approved and standard sort .....	\$0 10	\$0 50
<b>PALMETTO.</b> Of Southern origin, a very desirable Asparagus.....	10	75
<b>COLUMBIAN MAMMOTH WHITE.</b> A variety producing large white shoots .....	10	75
<b>ARTICHOKE.</b> Large green globe ....	25	3 25

For Roots, see page 57.

## BEETS. Salatrüben.

	Oz.	Lb.
Extra Early Flat Egyptian.....	\$0 10	\$0 45
Extra Early Crosby.....	10	50
Edmund's Blood Turnip .....	10	50
Eclipse.....	10	50
Bastian's Blood Turnip .....	10	50
Long Smooth Blood Red.....	10	40
Swiss Chard .....	10	50



VARIOUS BEETS.

# SUGAR BEETS AND MANGELS.

Mangel Wurzel oder Runkel Rüben.

	Oz.	Lb.
Mammoth Long Red, very large strain.....	\$0 10	\$0 35
Norbiton Giant, very fine, large sort.....	10	35
Golden Tankard, yellow, very productive.....	10	35
Yellow Globe, a good keeper.....	10	35
Improved White Sugar, extra fine.....	10	35
Vilm White Sugar, a French sort.....	10	35

# BRUSSELS SPROUTS. Sprossen-Kohl.

	Oz.	Lb.
Best French or Roseberry, very fine.....	\$0 15	\$1 65
Improved Half Long, the very best strain.....	20	2 00

# BROCCOLI. Spargelkohl.

	Oz.	Lb.
Early Purple Cape, the best for this climate.....	\$0 10	\$0 45
Early White Cape, with large, close heads.....	10	60

# DWARF OR BUSH BEANS. Buschbohnen.

Green Podded Sort.

The Bean Crop  
has been  
very short in 1899,  
especially on  
Green Podded Sorts.



HOPKINS' IMPROVED RED VALENTINE.

All our Beans are  
Eastern and Canadian  
Grown. There is no  
better Stock in this or  
any other Market.

	Qt.	Gal	Bush.
Hopkins' Improved Round Pod Extra Early Valentine. This is the best all-round Valentine in the market.....	\$0 35	\$1 25	\$9 50
Round Pod Valentine.....	25	1 00	8 00
Early Mohawk, large, flat.....	20	75	5 40
Extra Early Yellow Long Six Weeks.....	20	75	5 40
Best of All, a favorite in the South.....	25	1 00	7 25
New Extra Early Refugee, or "1,000 to 1".....	25	1 00	7 00
New White Valentine.....	CROP	FAILURE	
New Stringless, green, round pod, the coming market garden bean.....	35	1 25	9 00
White Marrow, a good string or shell bean.....	15	50	3 50
White Navy (everybody knows them).....	15	40	2 75
Prolific Tree, larger than Navy.....	15	40	3 00
New Mexican Bean, for Chili con Carne.....	25	90	6 00

GARDEN  
FIELD .....  
FLOWER

# SEEDS

Write your NAME PLAINLY, give POST OFFICE,  
COUNTY and STATE every time you write.

ORDER SHEET.

## JOS. F. DICKMANN SEED CO.

1110 and 1112 North Third Street,  
ST. LOUIS, MO.

Date, ..... 190 .....	AMOUNT ENCLOSED.
Forward to .....	Cash, .....
Post Office .....	P. O. Order, .....
Express Office .....	Draft, .....
County .....	C. O. D. .....
State .....	DON'T WRITE IN THIS SPACE.
Manner goods should be forwarded .....	
By what Railroad .....	
By what Express .....	

QUANTITIES

ARTICLES

PRICE

QUANTITIES

ARTICLES

PRICE

# WAX PODDED BEANS. *Wachs Bohnen.*



The Best Wax Bean for the Market Gardener.

	Qt.	Gal.	Bush.
Wardwell's Kidney Wax.....	\$0 25	\$1 00	\$7 50
Yosemite Wax, large.....	25	1 00	7 50
Speckled Wax, very fine.....	25	90	6 75
Golden Eyed Wax.....	25	85	6 00
German Black Wax.....	25	90	7 00
Davis Kidney Wax.....	30	1 15	8 75
White Kidney Wax.....	20	75	6 00
New Prolific Black Wax.....	20	75	6 00
Improved Golden Wax, a standard sort.....	25	1 00	7 50
New Improved Rust-proof Wax.....	25	1 00	7 50

# POLE BEANS. *Stangen Bohnen.*

	Qt.	Gal.	Bush.
Lazy Wives, old standard sort.....	\$0 30	\$1 00	\$7 50
Greaseback, or Fat Horse.....	25	90	7 00
Scarlet Runner, fine red flowers.....	25	90	7 00
Dutch Case Knife.....	25	1 00	7 50
Horticulture Cranberry.....	20	75	6 00
White Cornfield, the best corn bean.....	25	1 00	7 50
Speckled Cut Short Corn Bean.....	25	90	7 00
Kentucky Wonder, or Old Homestead.....	30	1 10	8 25
French Asparagus, or Yard Long.....	per lb., 50c.	1 00	....



## POLE LIMA BEANS.

### Stangen Bohnen.

	Qt.	Gal.	Bush.
Extra Large Lima .....	\$0 25	\$0 90	\$7 00
King of the Garden .....	25	90	7 00
Extra Early Jersey .....	25	90	7 00
Small White, or Sieva .....	20	90	6 75

## BUSH LIMA BEANS.

### Busch- oder Niedrige Butter-Bohnen.

	Qt.	Gal.	Bush.
Henderson's Bush Lima ..	\$0 25	\$1 00	\$7 50
Burpee's Bush Lima .....	30	1 10	8 25
Thorburn's Dwarf Lima ..	25	90	7 00

## HENDERSON'S NEW BUSH LIMA BEAN.



## ENGLISH DWARF BEANS.

### Große Bohnen.

	Qt.	Gal.	Bush.
Broad Windsor .....	\$0 25	\$0 90	\$7 00
Sword Long Pod .....	25	90	6 75

### DICKMANN'S RELIABLE

## CABBAGE SEED.

### Kraut Samen.



EARLY JERSEY WAKEFIELD CABBAGE.

	Oz.	Lb.
Select Early Jersey Wakefield ..	\$0 25	\$3 50
Charleston Wakefield .....	25	3 50
Early Summer, a fine sort. ....	25	3 00
Early Brunswick .....	20	2 25
Early Dwarf Flat Dutch .....	20	2 25
Early Eclipse .....	25	3 25
Lupton, or Improved Vander-gaw .....	25	3 50





DICKMANN'S GIANT SUMMER CABBAGE.

**CABBAGE—Continued.**

	Oz.	Lb.
Dickmann's Giant Summer, the best summer cabbage .....	\$0 30	\$4 00
All Season .....	25	3 25
Premium Late Drumhead .....	25	3 00
Premium Late Flat Dutch .....	20	3 00
Succession (Henderson's) .....	25	3 50
Sure Head (Burpee's) ..	20	3 00
Luxemburg .....	25	3 25
Hollander, or Danish...	30	4 00
Late St. Louis Market, the very best for late..	40	5 00

**Red Cabbage. Roth Kraut.**

	Oz.	Lb.
Red Dutch .....	\$0 20	\$3 00
Early Blood Red Erfurt,	20	2 75
Mammoth Rock Red...	25	3 00

**AMERICAN DRUMHEAD SAVOY.**

	Oz.	Lb.
The largest heading Savoy; of excellent flavor, and a general favorite with market gardeners and truckers .....	\$0 30	\$3 25
Early Dwarf Ulm Savoy .....	20	2 75
Netted Savoy .....	20	2 75

**CAULIFLOWER.**

**Blumentohl.**

	1 Oz.	2 Oz.
Erfurt Earliest Dwarf . . .	\$4 00	7 00
Extra Early Dwarf Erfurt	4 00	7 00
Extra Early Paris .....	2 00	3 50
Extra Early Snowball . . .	3 00	5 50
Large Select Danish .....	2 00	3 50
Large Late Algiers .....	2 00	3 50



ERFURT EARLIEST DWARF CAULIFLOWER.

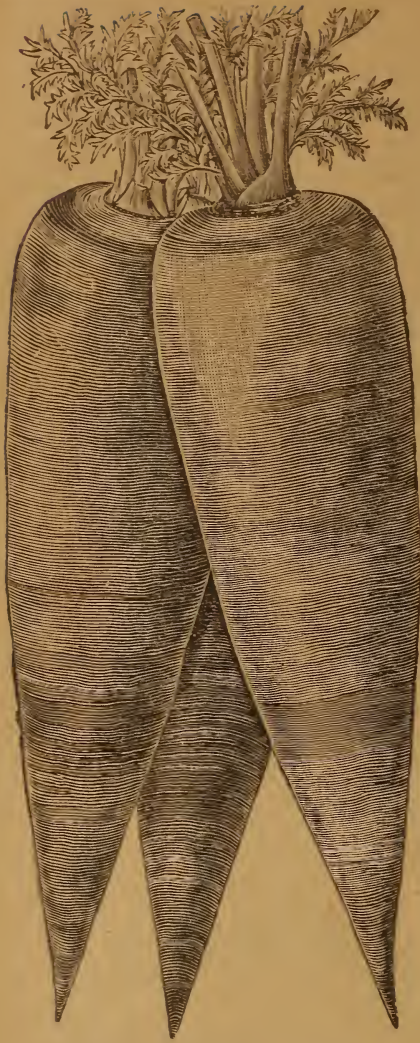
WE SELL ONE-FOURTH POUND AT POUND RATES.

**COLLARDS. Blätterfohl.**

	Oz.	Lb.
True Georgia, the leading sort .....	\$0 10	\$0 75

# CARROTS.

Gelbe Rüben.



MARKET GARDENERS' CARROT.

	Oz.	Lb.
Extra Early Forcing.....	\$0 10	\$0 90
Early Half Long, stump-rooted .....	10	65
Early Half Long Scarlet, pointed.....	10	65
Oxheart, or Guerande.....	10	65
Danver Half Long.....	10	75
Market Gardeners' Best Strain.....	10	75
Long Orange Improved .....	10	70
Chantenay, or Model.....	10	65
Half Long Rubicon.....	10	50
Victoria, good for stock.....	10	50
White Belgian .....	10	50



GOLDEN SELF-BLANCHING CELERY.

## CELERY. Sellerie.

	Oz.	Lb.
White Plume.....	\$0 25	\$2 75
Pink Plume (new).....	25	3 00
Kalamazoo.....	20	2 50
Golden Self-Blanching.....	25	3 25
New Giant Pascal.....	25	2 75
Boston Market.....	25	2 50
Heartwell's Perfection .....	25	2 50
Dwarf Golden Heart.....	20	2 75
Flavoring Celery.....		25

We Sell One-Fourth Pound at Pound Rates.

## CELERIAC. Knollen Sellerie.

	Oz.	Lb.
Giant Prague, the largest of all .....	\$0 20	\$2 50
Large Erfurt, smooth and fine flavor .....	20	2 50
Apple Shaped, smaller than the other sort .....	20	2 50
Large Improved Paris, a new imported kind .....	20	2 50

# SUGAR CORN.

## Zucker Korn.

If to be sent by Mail, 15 Cents per Quart for Postage must be added.

	Gal.	Bush.
Country Gentleman . . . . .	\$0 40	\$3 00
Early Cory . . . . .	40	3 00
Crosby's Extra Early . . . . .	40	3 00
Early Minnesota . . . . .	40	2 75
Perry's Hybrid . . . . .	50	3 25
Clark's None-Such . . . . .	50	3 25
Stowell's Evergreen . . . . .	40	3 00
Late Mammoth . . . . .	40	2 75
Extra Early Mammoth . . . . .	40	2 75
Shakers' Early . . . . .	50	3 25
Ballard's Early . . . . .	50	3 25
Early Champion . . . . .	50	3 75



## CARDOON. Cardoon.

	Oz.	Lb.
Large Solid, the best kind . . . . .	\$0 30	\$3 25

## CHERVIL. Bejenlauch.

	Oz.	Lb.
Curled . . . . .	\$0 20	\$2 00

## CHICORY. Chicorienwurzel.

	Oz.	Lb.
Large Rooted, the best for this climate . . . . .	\$0 25	\$3 25



## CORN SALAD. Feldsalat.

	Oz.	Lb.
Large Leaved . . . . .	\$0 10	\$0 75
Small Leaved . . . . .	10	75

CORN SALAD, OR FETITICUS.

## CUCUMBER. Gurken.



	Oz.	Lb.
Evergreen White Spine.....	\$0 10	\$0 75
Improved White Spine.....	10	75
Arlington White Spine.....	10	75
Long Green.....	10	65
Extra Early Russian.....	10	75
Early Frame.....	10	75
Tailby's Hybrid, the best for pickles.....	10	75
St. Louis Pickle, very fine for pickles.....	10	65
New Giant of Pera, a very large sort.....	10	85
Boston Pickling, an old standard sort.....	10	65
West India Gherkins, very small.....	10	75
Japanese Climbing, fine for trellis.....	20	1 00

## FORCING CUCUMBER. Treib Gurken.

	Pkt.	Oz.
General Grant, American grown.....	\$0 15	\$0 90
Giant of Armstadt, imported.....	15	90
Glory of Erfurt, a favorite sort.....	15	90
Swan Neck, very large sort.....	15	90

## CRESS. Kresse.



TRUE WATER CRESS.

	Oz.	Lb.
True Water.....	\$0 35	\$4 00
New Upland.....	50	5 00
Common, or Peppergrass.....	10	75

## DANDELION. Löwenzahn.

	Oz.	Lb.
Improved Large-leaved.....	\$0 15	\$0 90
French Garden, the very finest....	20	2 75

## EGG PLANT. Eierpflanze.

	Oz.	Lb.
New York Improved .....	\$0 35	\$3 00
Black Pekin.....	30	3 25
Early Long Purple .....	25	3 00

## ENDIVE. Endivien.

	Oz.	Lb.
Green Curled Summer .....	\$0 15	\$2 00
Green Curled Winter .....	15	2 00
Broad Leaved Escarolle.....	20	3 25
Self Blanching (new).....	20	3 25



IMPROVED NEW YORK PURPLE.



IMPROVED SIBERIAN KALE.

## KALE OR BORECOLE.

Blätterfohl oder Krausfohl.

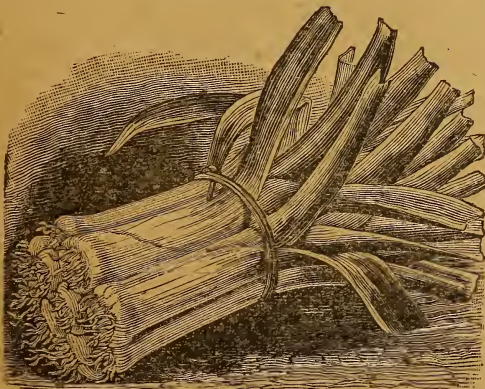
	Oz.	Lb.
Predeck's Winter .....	\$0 10	\$0 50
Improved Siberian .....	10	65
Dwarf German Greens .....	10	75
Dwarf Green Scotch .....	10	75
Tall Green, imported from Germany .....	10	75

## KOHLRABI. Kohl-Rabi.

	Oz.	Lb.
Earliest White Erfurt .....	\$0 20	\$2 75
Early White Vienna .....	20	2 75
Early Purple Vienna.....	20	3 00
Green Large, good for late.....	20	3 00



WHITE VIENNA KOHLRABI.



LARGE AMERICAN FLAG.

## LEEK. Poree oder Rauch.

	Oz.	Lb.
Large American Flag .....	\$0 25	\$3 25
Broad Leaved.....	25	3 00
Large Musselburg .....	20	2 75
Large Carantan.....	25	3 25

# LETTUCE. *Lattich oder Salat.*

## New Sensation Lettuce.

This remarkable variety, first introduced a few years since, has rapidly grown in popularity until it has become one of the leaders in our sales of seed among gardeners. It is valuable for growing in cold frames, and in open ground during the summer months. No other lettuce thrives so well, withstanding the hottest weather in a remarkable degree. It is a beautiful light yellowish green color, leaves much blistered on the surface, and has the peculiarity of forming a solid head, even before half grown. Its uniform, handsome and even growth is unequalled, and it is one of the easiest to grow. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., \$2.25.



	Oz.	Lb.
Jos. F. Dickmann's St. Louis Market Lettuce, W. S.	\$0 15	\$1 75
Early White Butter, W. S.	15	2 00
Big Boston, new, W. S.	20	3 00
St. Louis Forcing, B. S.	20	2 50
Royal Butter, new, W. S.	20	2 50
Buttercup, W. S.	15	2 00

	Oz.	Lb.
Dickmann's Private Stock, B. S.	\$0 15	\$2 50
Mammoth Butter, B. S.	20	2 75
Early Tennis Ball, W. S.	15	2 00
Yellow Seeded Butter, Y. S.	15	2 00
Brown Dutch, B. S.	15	2 00
Hardy Green Winter, W. S.	15	2 00



GENUINE HARD HEADING HANSON LETTUCE

## HANSON'S LETTUCE.

	Oz.	Lb.
Very hard head	\$0 15	\$2 00

## COS OR ROMAINE LETTUCE.

	Oz.	Lb.
Early White Self Folding	\$0 15	\$2 50
Paris White Cos	15	2 50
Trianon	15	2 50

## Curled Varieties. *Krause Sorten.*

	Oz.	Lb.
Simpson's Early, very curled, white seed	\$0 15	\$1 65
Black Seeded Simpson, black seed	15	1 65
Early Curled Silesia, white seed	15	1 65
Boston Curled, white seed	15	1 65
Grand Rapids Forcing, black seed	15	1 65

## MUSTARD. *Senf.*

	Oz.	Lb.
Giant Curled, the best for early	\$0 10	\$0 65
Chinese Curled, or Southern, very fine	10	65
White English, for pickling	10	65
Common, home grown	10	50

## MARTINIA. *Gemsenhorn.*

	Oz.	Lb.
Proboscidea	\$0 25	\$4 00

# MUSHROOM SPAWN. *Champignonbrut.*



MUSHROOM.

**CULTURE.**—Mushrooms may be grown in cellars, under benches of greenhouses, or in sheds, wherever the temperature of 50 degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse dung, free from straw and litter, and mix an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day, to prevent heating, until the pile is large enough to make a bed of the required size. Three or four feet wide, eight inches deep, and any length desired, are the proper proportions for a bed, but these may be varied. Prepare the mixture of loam and manure, making the bed in layers, and pounding down each with the back of the spade. Leave this to heat through for a few days, and as soon as the heat subsides to 90 degrees, make holes in the bed about a foot apart each way, into which put pieces of the spawn two or three inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself through the bed. Spread a layer of fresh soil over the heap to the depth of two inches and cover with three or four inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, however, when water is given, that it be at a temperature of about 100 degrees.

From experience with French and English Spawn, we find there is an important difference between them. If the manure in the bed is in proper condition the French Spawn will take hold and grow fully as well as the English, but if the bed is not in the right state it will often rot. The English Spawn on the contrary, after starting a little, will remain in a comparatively dormant state for a long time without losing its vitality. It is well to keep these points in mind in ordering Spawn.

	Lb.	100 lbs.
English.....		\$0 20 \$11 00
French.....	per lb., 50c.;	3-lb. box, 1 25

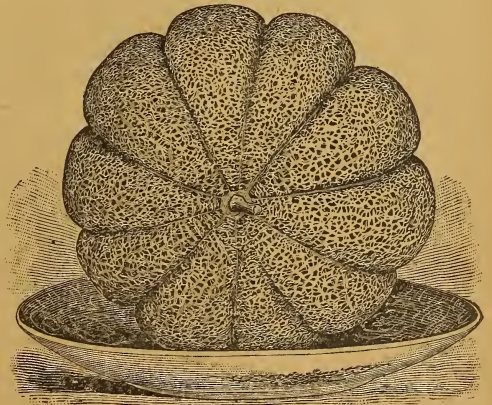
- ROBINSON'S MUSHROOM CULTURE.** A book giving directions how to raise Mushrooms. Per copy, postpaid..... \$1 00
- MUSHROOMS, AND HOW TO GROW THEM.** By WM. FALCONER. The most complete book published in America on the cultivation of Mushrooms. Per copy, postpaid..... 1 50

# MUSK MELON. *Zucker-Melone.*

## Rocky Ford (Colorado) Nutmeg Melon.

This is one of the best-selling Melons on the St. Louis market—has brought double the price of other nutmeg varieties. We have the true seed of this Melon, have bought the Melons here and took the seed out ourselves, so as to get the original stock. A trial will convince you.

	Oz.	Lb.
Rocky Ford Nutmeg Melon.....	\$0 15	\$1 25
Dickmann's Best.....	15	90
The Banquet.....	10	75
Osage, or Improved Miller's Cream....	10	75
Tip Top.....	10	75
Early Hackensack.....	10	75
Large Hackensack.....	10	75
Improved Cantaloupe.....	10	75
Early White Japan.....	10	75
Baltimore, or Acme.....	10	75
Montreal Market.....	10	65
Improved Large Nutmeg, green.....	10	75
Perfected Delmonico.....	10	65
Jenny Lind, very fine.....	10	75
Netted Gem.....	10	85
Banana, New Improved.....	10	75
Extra Early Citron.....	10	75



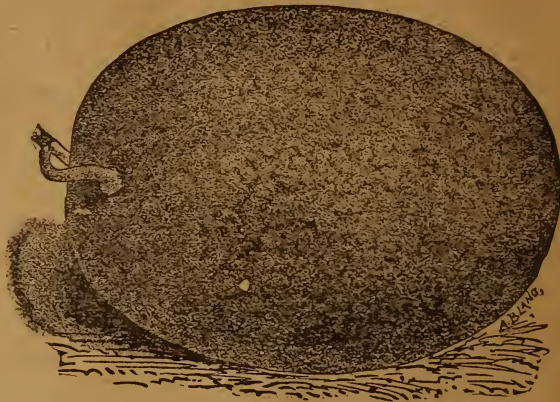
DICKMANN'S BEST MUSK MELONS.

# WATERMELON. Wasser-Melone.

## "Triumph" Watermelon.

This new Melon, as a market sort and for shipment, is the best ever introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and Kolb Gem; has the fine, handsome appearance of the former and the fine shipping qualities of the latter. The rind, like the Duke Jones, is of dark green color, the seed exactly the same color as the Kolb Gem. As a table melon it is of much better flavor than the Kolb Gem. The average size of the melon is very large. The originator gathered from 2½ acres, 2,418 melons weighing over 40 pounds each. Comparatively speaking, there were no small melons on the vines at the time of harvesting seed. The "Triumph" is very early, very large, very prolific, deliciously sweet, of finest flavor—in fact, the finest Watermelon in the United States. The farmer who values his melon

patch, and looks forward to the good times in June and July, can not afford to do without the Triumph. Plant only the best; you get it in the Triumph. Prices: Packet, 10c; ounce, 20c; quarter pound, 50c; pound, \$1.50.



	Oz.	Lb.		Oz.	Lb.
Cuban Queen.....	\$0 10	\$0 65	Rattlesnake, or Gypsy.....	\$0 10	\$0 65
Jordan Gray Monarch.....	10	65	Florida Favorite.....	10	65
Green and Gold.....	10	75	Scaly Bark.....	10	60
Sweet Heart.....	10	75	Black Spanish.....	10	65
The Dixie.....	10	50	Seminole.....	10	60
Kolb's Gem.....	10	50	Mammoth Ironclad.....	10	65
Peerless, or Ice Cream.....	10	50	The Boss.....	10	65
Mountain Sweet.....	10	50	Citron.....	10	65
Improved Ironclad.....	10	65	Johnson's Christmas.....	10	60
Dark Icing, or Ice Rind.....	10	65	Jones' Jumbo.....	10	65
Pride of Georgia.....	10	65			

## JOS. F. DICKMANN SEED CO.'S

# RELIABLE ONION SEED. Zwiebel Samen.



RED WETHERSFIELD ONION.

For a more detailed description as to culture, see the book, "Onions for Profit;" price, 50c. Onion growers should have this book. No one can appreciate the value of reliable seeds better than those who have been once disappointed. Too much care can not be exercised in selecting your supply of Onion seed. There is no vegetable in which the quality of the seed exerts a greater influence upon the crop. Fully realizing this, we have for some years made a specialty of Onion seed, and have all our crops raised under special contract subject to careful supervision. In vitality it is very strong, being carefully tested. The rapid increase in our Onion seed trade among market gardeners and large growers of Onions, many of whom order from twenty-five to one hundred pounds, is the best evidence that our Onion seed is unexcelled in quality. If you use large quantities of Onion seed, it will pay you to write us for special prices, stating the amount required. Our prices will be as low as good Onion seed can be sold for. We are not in the market to compete with old and worthless seed, but we are ready and willing to have our prices compared with any reliable seed house.



# Jos. F. Dickmann Seed Co.'s Reliable Onion Seed—Continued.

**GOOD ONION SEED** is of the utmost importance. Fully realizing this, we make a speciality of the **BEST Onion Seed**. A dollar saved on the purchase of the seed is likely to be lost many times over when the bulbs are harvested. The first cost of the seed is a comparatively small item as compared with the expense involved in the proper preparation, fertilizing and cultivation of the soil. This cost is fully as great, and frequently more cultivation is required to raise a crop of inferior bulbs from poor seed than to harvest a crop of fine, evenly ripened bulbs from a good strain of seed. Our Onion Seed is grown only from choice selected bulbs, examined critically before being set out to produce seed. In quality, it is vastly superior to much that is put on the market, and which is grown chiefly with the object of producing the largest quantity of seed per acre. In vitality our seed is very strong, of quick and positive germination, as vitality trials are made from each bag of seed as soon as received, and further comparative trials as the season advances. The steady increase in our Onion Seed trade, particularly among market gardeners, proves that **DICKMANN'S ONION SEED** is unexcelled in quality.



THE GENUINE PRIZETAKER.

	Oz.	1/4 lb.	Lb.
Large Red Wetherfield.....	\$0 20	\$0 60	\$1 75
Extra Early Red.....	20	50	1 75
Large Red Globe.....	20	75	2 75
Yellow Globe, Danvers.....	20	75	2 50
Yellow Strasburg, or Dutch.....	20	75	2 75
Early Red Globe.....	20	75	2 75
White Globe.....	20	75	2 75
Yellow Danvers.....	20	65	2 50
White Silver Skin, or White Portugal	20	75	2 50
Prizetaker.....	20	75	2 50

## ITALIAN ONIONS.

	Oz.	1/4 lb.	Lb.
Mam'th Silver King	\$0 20	\$0 75	\$2 50
Early Round Hard White Dutch.....	20	75	2 50
El Paso, or Large Mexican.....	20	75	2 50
Extra Early White Pearl.....	20	75	2 75
Neapolitan Maggia- jola.....	30	1 10	3 50
White Adriatic Bar- letta.....	25	90	3 50
White Queen.....	25	90	3 25
Giant White Tripoli Red Mam'th Tripoli or Bermuda Red..	40	1 50	5 00
Giant Red Rocca...	30	1 10	3 50
Giant White Rocca...	25	90	3 00
Mammoth Pompeii, or Copper King...	25	90	3 00
Giant Yellow Rocca, or Spanish King..	35	1 25	4 25
True Bermuda Onion Seed.....			
Shallot Seed, Imp.....			
Chives Seed.....			

## ONION SETS. Setz-Zwiebeln.

Yellow Bottom.....	Garlic, per lb.....	} Market Price.
White Bottom.....	New White Multiplier.....	
Red Top, or Button.....	White Top, or Button.....	
Potato Onion.....	Shallots.....	

Boxes, crates and barrels charged at cost price.

## OKRA or GUMBO. Esbarer.

	Oz.	Lb.
Dwarf.....	\$0 10	\$0 40
Tall.....	10	40
New White Vel- vet Dwarf.....	10	40



WHITE VELVET OKRA.



DWARF, EXTRA CURLED PARSLEY.

## PARSLEY. Petersilie.

	Oz.	1/4 lb.	Lb.
Triple Curled, or Myatt's Garnishing.....	\$0 10	\$0 20	\$0 75
Plain.....	10	20	65
Turnip-Rooted, or Hamburg.....	10	20	75
Fern-Leaved.....	10	20	75
Champion Moss Curled.....	10	20	75
Dwarf, Extra Curled.....	10	20	75



PARSNIPS.

PARSNIP. *Parstinken.*

	Oz.	Lb.
Magnum Bonum .....	\$0 10	\$0 60
Large White Sugar.....	10	60
Student.....	10	60
Hollow Crown.....	10	65
New Maltese.....	10	65

PEAS. *Erbsen.*

JOS. F. DICKMANN SEED CO.'S  
NORTHERN GROWN PEAS.

Our Seed Peas are of the very best quality obtainable, being all grown far north, riddled and carefully hand-picked. They are raised from the best selected stocks, and the crops are carefully "rogued," being subjected to the most critical and constant inspection.



PEPPER. *Pfeffer.*

	Oz.	Lb.
Golden Upright, Improved Sweet Mountain .....	\$0 20	\$2 75
Long Red Cayenne.....	20	2 75
Chili or Mexican Ruby King.....	20	2 75
Celestial.....	20	2 75
Cherry Red.....	20	3 00
Large Bell, or Bull Nose...	20	3 00
Golden Dawn..	20	3 00



IMPROVED SWEET MOUNTAIN.

JOS. F. DICKMANN'S PRIZE-TAKER PEA.

LARGEST, MOST PROLIFIC AND SWEETEST.

This Pea is the result of years of careful selections among peas; and, as it is now offered to the public, is without doubt one of the best sorts in cultivation. Its habits resemble the Stratagem, branching, but compact in growth. Pods are long, straight and very broad. Seeds are green, wrinkled and flattened, resembling Yorkshire Hero, but much larger. It grows about eighteen inches high, and is ready for market just after Dickmann Seed Co.'s Second Early Market Peas. Coming in when peas are in demand, every garden should have them in it to be complete. Packet, 10c; half pint, 15c; pint, 25c; quart, 40c; gallon, \$1.50.

EXTRA EARLY VARIETIES.

	Qt.	Gal.	Bush.
Early May.....	\$0 15	\$0 50	\$4 00
McLean's Blue Peter..	20	75	5 00
Tom Thumb.....	20	75	5 00
Philadelphia Extra Early.....	15	50	3 75
Dickmann's Extra Early Market.....	15	50	4 00
Rural New Yorker...	15	50	3 75
Gradus, or Prosperity,	50	1 75	10 00

	Qt.	Gal.	Bush.
American Wonder...	\$0 25	\$0 90	6 75
Extra Early Premium Gem.....	20	75	5 50
Laxton's Alpha .....	20	75	5 75
Daniel O'Rourke.....	15	50	3 75
Nott's Excelsior.....	25	90	6 50
Alaska.....	20	65	4 50
Little Gem.....	20	75	5 50

SECOND EARLY and LATE VARIETIES. *Späte Erbsen.*

	Qt.	Gal.	Bush.
Dickmann's Second Early Market Garden.....	\$0 20	\$0 75	\$5 25
New Pea Heroine .....	25	90	6 75
Abundance .....	20	75	5 25
Long Island Mammoth.....	20	75	5 75
McLean's Advancer ..	20	75	5 25
Horsford's Market Garden.....	20	75	6 00

	Qt.	Gal.	Bush.
Everbearing .....	\$0 20	\$0 75	\$5 75
Telephone .....	20	75	5 50
Stratagem Improved..	20	75	5 75
Pride of the Market..	25	90	6 75
Champion of England,	20	75	5 00
Large Black-Eyed Marrowfat .....	15	50	3 50
Large White Marrowfat.....	15	50	3 50

EDIBLE PODDED SORTS.

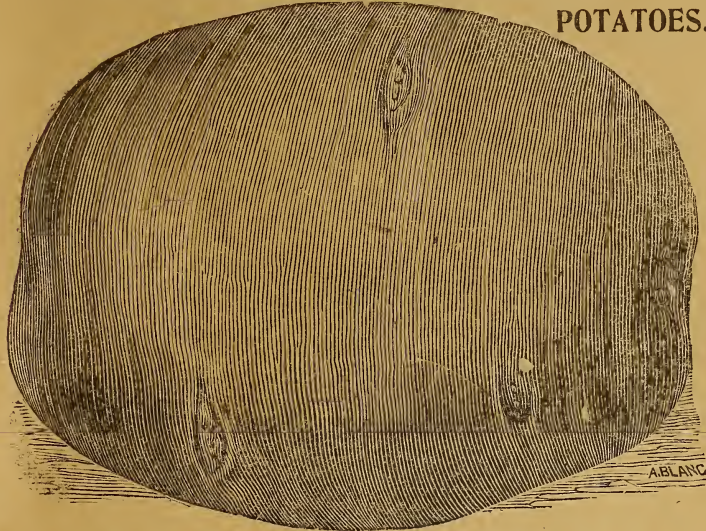
	Qt.	Gal.	Bush.
Dwarf Sugar (gray seeded).....	\$0 25	\$0 90	\$7 00

Butter-Erbsen mit essbaren Schoten.

	Qt.	Gal.	Bush.
Tall Sugar .....	\$0 25	\$0 90	\$6 75
Melting Sugar.....	25	90	6 75

## POTATO SEED.

The Potato, as ordinarily propagated, is not grown from the seed, but from the tuber, a cutting of which resembles a graft or bud from a tree, and perpetuates the good or bad qualities of the parent. The true seed, which is borne in a seed-pod following the blossom, is very seldom seen, is very difficult to gather, and consequently is very expensive. In appearance resembles a tomato seed of about one-tenth development, the Potato belonging to the Tomato family. The seed germinates very easily, and the plants can be cultivated by any one, producing tubers the first year about the size of buckshot; these, planted the second year, double in bulk, and after about three or four years become of edible size. As entirely new sorts are thus produced, the cultivation is very interesting and often profitable. Per pkt., 30c.



RURAL NEW YORKER No. 2.

### POTATOES.

Carman No. 1 .....	} Market Price.
Carman No. 3 .....	
The Freeman .....	
Early Ohio .....	
Ohio Junior .....	
Early Puritan .....	
Mammoth Pearl .....	
Burbank Seedling .....	
Rural New Yorker No. 2 .....	
Clark's No. 1 .....	
Chas. Downing .....	
Beauty of Hebron .....	
The Thorburn .....	
Late Burbank .....	
White Star .....	
Empire State .....	
Early Rose .....	
Green Mountain .....	
Crown Jewel .....	

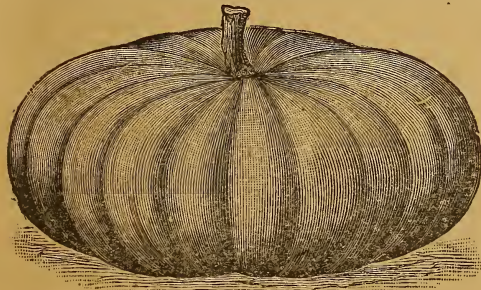
In addition to this we can also supply a choice stock of Ajax, Peerless, Dakota Red, Snowflake, Colorado Red and White Elephant at the market price. Barrels and boxes at cost.

### SWEET POTATOES.

#### Süß-Kartoffeln.

Early Red Jersey .....	} Market Price.
Red Nansmond .....	
Early Yellow Jersey .....	
Early Red Bermuda .....	
Yellow Nansmond .....	
White Southern Queen .....	
Yam or Vineless .....	

## VIRGINIA PEANUTS. Per lb., 20c.



LARGE CHEESE.

### PUMPKIN. Kürbis.

	Oz.	1/4 lb.	Lb.
Japanese Pie .....	\$0 10	\$0 20	\$0 75
Crookneck .....	10	20	75
Connecticut Field .....	10	20	50
Large Cheese .....	10	20	50
Mammoth Chili .....	15	50	1 65
Nantucket .....	10	20	75
Etampes Mammoth Red .....	10	25	90
Kentucky Field .....	10	20	60
Mammoth Tours .....	15	50	1 75
Tennessee Sweet Potato .....	10	20	75

### RHUBARB, or PIE PLANT. Rhabarber.

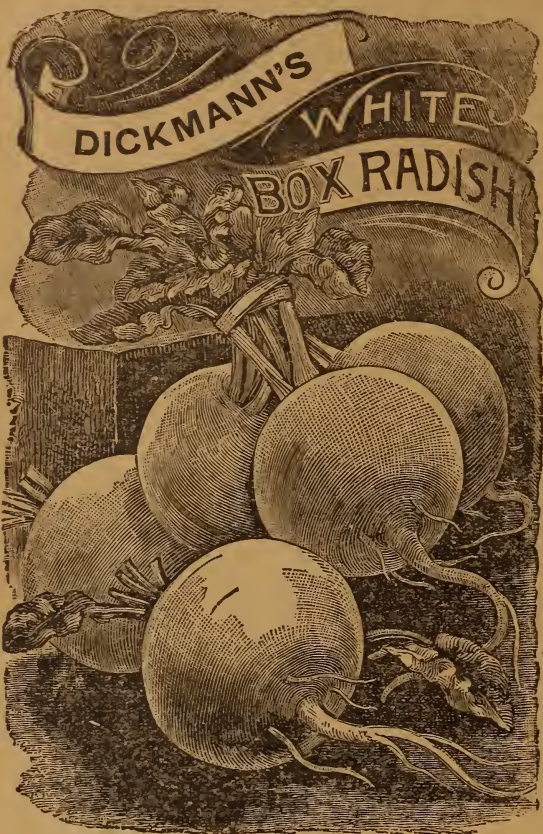
	Oz.	1/4 lb.	Lb.
New Giant .....	\$0 15	\$0 50	\$2 00
Victoria .....	15	50	1 75
Linnaeus .....	15	50	1 75



### RADISH. Rettig oder Radieschen.

	Oz.	1/4 lb.	Lb.
Early Scarlet Turnip, forcing .....	\$0 10	\$0 20	\$0 75
Dark Blood Red Turnip .....	10	20	75
Early Scarlet Turnip, white tipped, forcing .....	10	20	75
Early Scarlet, Glo. e. ....	10	20	75

# RADISHES. Rettig.



**DICKMANN SEED CO.'S MODEL WHITE BOX RADISH.** No Radish ever introduced has met with so large a sale, or giving such general satisfaction as the Philadelphia White Box. But our customers, however, were gratified and surprised to find that we offer a still better and more desirable Radish—Dickmann Seed Co.'s Model White Box. It possesses all the excellent qualities of the once popular Philadelphia White Box, and is superior in the following respects: In the first place, the shape is rounder and much handsomer, as shown in our engraving, made from nature. It is also earlier, with fewer and shorter leaves, hence it can be sown more thickly in the row, enabling the grower to raise at least one-third more radishes in the same space, whether under glass, in frames or boxes, or on squares or borders in open ground. It is indeed a model, perfect in all respects, solid, juicy and unsurpassed in flavor in all stages of growth, and equally valuable for the home or market garden. Per ounce, 10c.; per quarter pound, 20c.; per pound, 75c.



WHITE STRASBURG.

	Oz.	¼ lb.	Lb.
Early Scarlet, Olive-shaped .....	\$0 10	\$0 20	\$0 75
French Breakfast.....	10	20	75
Early Scarlet Turnip, White Tipped .....	10	20	75
Woods' Early Frame .....	10	15	50
Golden Globe.....	10	20	75
Early Long Scarlet, Short Top, Improved.....	10	20	75
Long Brightest Scarlet, White Tipped.....	10	20	75
Chartier.....	10	20	75
Giant White Stut gart.....	10	20	75
Early White Turnip.....	10	20	75
Long White Naples.....	10	20	75
White Lady Finger, or Long White Vienna .....	10	20	75
White Strasburg.....	10	15	90
Celestial, New.....	10	20	75
St. Louis White Summer.....	10	20	75
Newcom.....	10	20	75
Large White Summer Turnip.....	10	20	75

## WINTER VARIETIES. Winter-Rettig.

	Oz.	¼ lb.	Lb.
Long Black Spanish .....	\$0 10	\$0 20	\$0 65
Round Black Spanish.....	10	20	65
Long White Spanish .....	10	20	65
California Mammoth White.....	10	20	65
Chinese Rose, Winter.....	10	20	65

## SALSIFY, or OYSTER PLANT.

Salfertwurzel.

	Oz.	¼ lb.	Lb.
Long White French.....	\$6 10	\$0 30	\$1 00
Mammoth Sandwich Island.....	10	30	1 00
SCORZONERA, or BLACK OYSTER PLANT .....	15	40	1 60

## SPINACH. Spinat.

	¼ lb.	Lb.
Round Thick Leaved .....	\$0 15	\$0 25
Improved Thick Leaved (Viroflay).....	15	25
Prickly Seeded .....	20	35
Curled Leaved Savoy (Bloomdale).....	15	25
Long Standing .....	15	25
New Zealand .....	25	90
Landreth's, in Blue Bags. ....	5 lbs. for	1 25

## SQUASH. Speise-Kürbisse.

	Oz.	¼ lb.	Lb.
Early White Bush Scallop.....	\$0 10	\$0 20	\$0 75
White Pineapple .....	10	20	75
Essex Hybrid, or American Turban .....	10	20	75
Early Yellow Bush Scallop.....	10	20	75
Canada Winter Crookneck .....	10	20	75
Marblehead.....	10	25	90
Mammoth Chili.....	15	50	1 50
Mexican Banana.....	10	20	75
Boston Marrow.....	10	20	75
Giant Bush Summer Crookneck....	10	20	75
Vegetable Marrow .....	10	20	75
Early Prolific Orange Marrow.....	10	30	1 00
Sibley, or Pike's Peak.....	10	20	75
Hubbard .....	10	20	75



**TOBACCO SEED.**  
*Tabak Samen.*

	Oz.	1/4lb.	Lb.
Gold Leaf.....	\$0 25	\$0 75	\$2 75
White Burley.....	25	75	2 75
Yellow Prior.....	25	75	2 75
Missouri Broad Leaf	25	75	2 75
Havana.....	25	75	2 75
Big Oronoko.....	25	75	2 75
Connecticut Seed			
Leaf.....	25	75	2 75

**SEA KALE.** *Meer-Kohl.*  
Sea Kale..... Oz., 15c; 1/4 lb., 50c; lb., \$1.75

**SORREL.** *Sauerampfer.*  
Broad Leaved French, Oz., 15c; 1/4lb., 50c; lb., \$1.50

**TOMATO.** *Liebesapfel.*

	Oz.	1/4lb.	Lb.
New Stone.....	\$0 25	\$0 75	\$2 75
Atlantic Prize.....	20	75	2 50
Royal Red.....	20	75	2 50
Large Round Yellow.....	20	75	2 50
Livingston's Beauty.....	25	75	3 00
Turner's Hybrid, or Mikado.....	20	75	2 50
Long Keeper.....	20	75	2 50
Dwarf Champion.....	25	75	2 75
Ponderosa.....	25	75	2 75
Extra Early Purple Advance.....	20	75	2 50
Trophy.....	20	75	2 75



	Oz.	1/4lb.	Lb.		Oz.	1/4lb.	Lb.
Favorite.....	\$0 25	\$0 75	\$2 50	Mansfield Tree.....	\$0 35	\$1 40	\$5 00
Husk, or Strawberry... ..	40	...	...	Buckeye State.....	25	90	3 25
Perfection.....	20	75	2 75	Red Currant, Red Cherry, Yellow			
Acme.....	20	75	2 75	Cherry, Yellow Plum, Red Pear Shape,			
Dickmann's N.Jersey.....	25	85	3 00	excellent for pickles, preserves and pies.			
White's Excelsior.....	30	1 25	4 00	Pkt., 5c; oz., 25c.			

**TURNIP.** *Weisse Rüben.*

	Oz.	1/4lb.	Lb.		Oz.	1/4lb.	Lb.
Extra Early Purple Top				Early White Egg.....	\$0 10	20	\$0 50
Milan.....	\$0 10	\$0 20	\$0 75	Purple Top Globe.....	10	15	45
Early White Flat Dutch				Sweet German.....	10	15	45
strap leaved.....	10	20	60	Purple Top, strap leaved	10	15	45
Early Purple Top Munich	10	20	65	Seven Top.....	10	15	40
Long White, or Cow Horn	10	20	45	Yellow Globe, or Amber	10	15	45
Large White Globe.....	10	20	50				

**HERBS.** *Kräuter.*

**SEEDS OF SWEET, POT AND MEDICINAL.**

Anise. For garnishing and seasoning.....	Pkt.		Lavender. A popular aromatic herb, emitting	Pkt.
Balm. Used for balm tea or balm wine.....	\$0 05		a delightful perfume.....	\$0 05
Basil, Sweet. Used for highly-seasoned dishes..	05		Marjoram, Sweet. Popular for seasoning.....	05
Bene. A medicinal plant.....	05		Marjoram, Pot. Used or seasoning.....	05
Borage. Excellent for bees.....	05		Opium Poppy.....	05
Caraway. Used for flavoring.....	05		Rosemary. An aromatic herb.....	05
Castor Oil Plant.....	05		Saffron.....	05
Catnip. Used for bees.....	05		Sage. The leaves and tender tops are used in	
Coriander. Used chiefly for garnishing.....	05		stuffing and in sauces.....	05
Dill. Used to flavor soups, etc.....	05		Savory, Summer. Used for seasoning.....	05
Fennel.....	05		Thyme, Broad Leaved. For seasoning, also use-	
Henbane.....	05		ful as a bee food.....	05
Hop Seed.....	05		Tansy.....	05
Horehound. Useful tonic properties.....	05		Winter Savory.....	05
Hyssop. For medicinal purposes.....	05		Wormwood.....	05



RED OR PURPLE TOP, STRAP LEAVED.



LONG RED MAMMOTH MANGEL WURZEL.

# FARM SEEDS.

## Feld Samen.

### Sugar Beets and Mangels.

#### Mangel Wurzel oder Runkel Rüben.

	1/4 lb.	Lb.
Golden Tankard.....	\$0 15	\$0 35
Golden Yellow Mammoth.....	15	35
Mammoth Long Red.....	15	40
Norbiton Giant.....	15	40
Red Globe.....	15	35
Yellow, or Orange Globe.....	15	35
Sugar Cane.....	15	35

#### SUGAR BEETS. Zucker Rüben.

	\$0 20	\$0 50
Improved White Sugar.....	20	50
Lane's Improved White Sugar.....	20	50
White Sugar.....	20	50

### Turnips, Rutabaga Varieties.

#### Stark Rüben.

	1/4 lb.	Lb.
Improved American.....	\$0 20	\$0 50
Shirving's Purple Top.....	20	50
Large White French.....	20	50

### SPRING WHEAT. Weizen.

	Bush.
Pillsbury Spring Wheat.....	\$1 50
Wellman Fife.....	1 50
Saskatchewan Fife.....	1 50

### SPRING BARLEY. Gerste.

	Bush.
Highland Chief.....	\$1 50
Common.....	75

### RYE. Roggen.

Spring.....	} Market Price.
Excelsior.....	
Winter.....	
Thousandfold.....	

### DWARF FIELD BEANS.

#### Feld Bohnen.

	Bush.
Dwarf White Navy.....	\$2 50
Boston Small Pea Soup Bean.....	2 75
Prolific Tree.....	2 75

### BUCKWHEAT. Buchweizen.

	Bush.
New Japanese.....	\$1 50
Silver Hull.....	1 50
Common.....	1 50

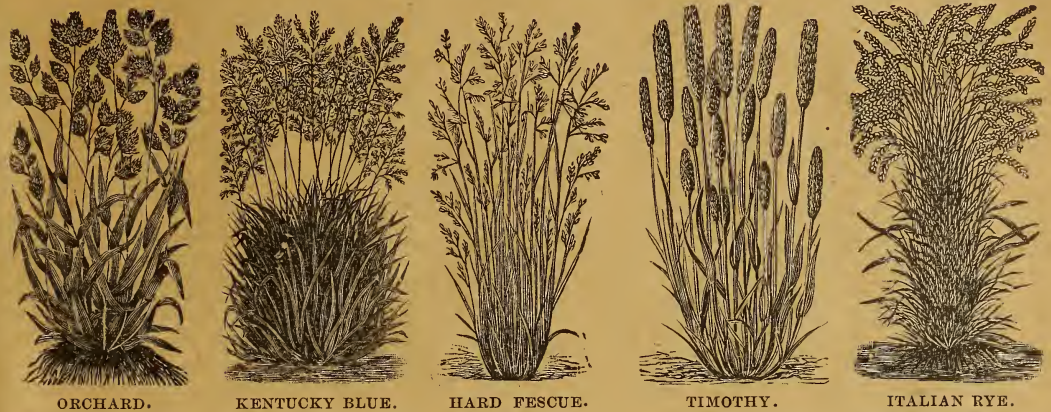
Special rates on large quantities.

### SUNFLOWER. Sonnenblumen.

	Lb.	50 lbs.	100 lbs.
Mammoth Russian.....	\$0 10	\$4 00	\$6 75

# HIGH GRADE GRASS AND CLOVER SEED.

Feinsten Gras und Klee Samen.



ORCHARD.

KENTUCKY BLUE.

HARD FESCUE.

TIMOTHY.

ITALIAN RYE.

## HIGH GRADE GRASS SEED. Gras Samen.

	Lb.	Bush.		Lb.	10 lbs.
Fancy Kentucky Blue Grass...	\$0 20	\$2 25	Johnson Grass...	\$0 15	\$1 00
Extra Cleaned Blue Grass.....	15	1 50	Crested Dog's Tail.....	35	2 75
Orchard Grass.....	15	2 00	English Rye Grass.....	15	1 40
Red Top Grass, Fancy.....	15	1 50	Italian Rye Grass.....	15	1 40
Timothy.....	Mkt.	price.	German, or Golden Millet.....	} Mkt. price.	
Wood Meadow Grass.....	\$0 30	\$2 50	Common Millet.....		
Sweet Vernal.....	20	1 75	Hungarian.....		
Tall Meadow Oat Grass.....	25	2 00	Giant Spurry.....	20	.....
Sheep's Fescue.....	15	1 40	Bermuda Grass.....	1 25	.....
Meadow Fescue.....	15	1 25	Seradella.....	15	.....
Tower Grove Park Lawn Grass.....				Lb.	Bush.
				\$0 25	\$2 50

Prices for large quantities on application.

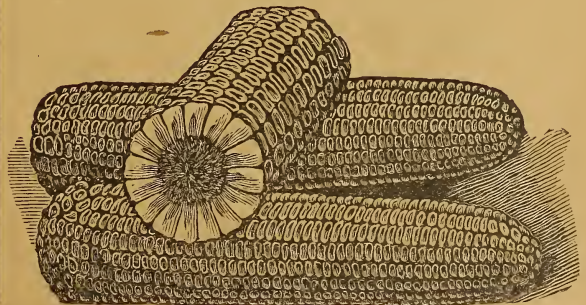
## OUR SPECIAL GRASS MIXTURE. Gemischter Gras Samen.

	Lb.	Bush.	100 lbs.
For Hay and Permanent Pasture.....	\$0 15	\$2 00	\$12 00

## CLOVER SEED. Klee Samen.

	Lb.	10 lbs.
Lucerne, or Alfalfa Clover....	\$0 15	\$1 30
Alsike, Swedish or Hybrid....	20	1 80
Bokhare Clover.....	30	2 80
Sainfoin, Esparsette, or Holy Clover.....	15	1 25
Japan Clover.....	25	2 00
Honey, or Bee Clover.....	20	1 80
White Dutch.....	30	2 70
Red Clover.....	Mkt. price.	
Yellow Trefoil.....	15	1 25
Mammoth, Sapling, or Pea Vine Red.....	Mkt. price.	
Crimson, or Scarlet.....	15	1 25

Prices for large quantities on application.



EARLY BUTLER YELLOW DENT.

Write for Special Prices on Grass Seed before you buy in either Fall or Spring, also for Prices of other Grasses not mentioned above.

# CHOICE FIELD CORN AND FODDER PLANTS.

Bestes Feld Korn und Futter Pflanzen.

## CHOICE FIELD CORN. Feld Korn.



**RIPLEY'S FAVORITE** is one of the best white field corns; forms large, full-grown ears; very heavy and pure white. Per quarter bushel, 40c.; half bushel, 75c.; bushel, \$1.25.

	Pk. 1/2 bush.	Bush.
Extra Early Huron Dent.....	\$0 30	\$0 50 \$1 00
Golden Beauty.....	30	50 1 00
St. Charles White.....	25	40 75
Leaming.....	25	45 90
Pride of the North.....	25	45 90
Champion White Pearl.....	25	50 1 00
Giant White Normandy.....	30	50 1 00
Black Hawk.....	35	60 1 10
Murdock's 90-day.....	25	45 90
Prolific Fodder Corn.....	50	90 1 75
White Cap Yellow Dent.....	30	55 1 00
Hickory King.....	35	60 1 20
Iowa Silver Mine.....	35	60 1 20
Iowa Gold Mine.....	35	60 1 20
Early Butler Yellow Dent.....	35	60 1 20

## POP CORN. Popp Korn.

	Lb.
White Rice.....	\$0 10
Silver Lace.....	10
Golden Queen.....	10
Red Rice.....	10
Striped Beauty.....	10
White Pearl.....	10

## SEED OATS. Safer.

	Bush.
Black Russian Winter.....	\$1 00
Early Black Cluster.....	90
White Russian.....	90
Welcome.....	90
Probestier.....	1 10
White Chester.....	85
Rust-proof.....	65

Special prices on large quantities.





**CHOICE FIELD AND FODDER PLANTS—Continued.**

**COW PEAS.**

They are great soil improvers. Makes poor land rich; makes good land more productive; also makes a splendid and nutritious green forage or hay crop, enriching the soil even when the crop is cut off. Leguminous crops plowed under are one of the best and cheapest ways of improving the soil. For this purpose the Cow Pea has no superior, especially for medium or light soils. For this class of soils the Cow Pea is superior to Clover as a soil improver; it also makes splendid green food or a most nutritious hay. There is no surer or cheaper means of improving soil than by sowing Cow Peas, and if we consider that land improved by the use of clover (excepting the crimson) takes eight months at least, while this, a much heavier crop, is produced in three to four months, their great value is obvious to all. In its capacity as a nitrogen gatherer, its growth largely enables the farmer to dispense with the use of nitrogen or ammonia fertilizers. Nitrogen or ammonia in commercial fertilizers is valued at fifteen cents per pound. The Cow Pea, to a greater extent than other leguminous crops, has the power to extract the costly nitrogen or ammonia from the atmosphere. The removal of the vines from the land to use for fodder purposes decreases, to some extent, the value of the crop as a feeder of nitrogen to the soil, but the roots being rich in nitrogenous matter, are great improvers. From 10,000 to 18,000 pounds of green fodder per acre have been produced by the Cow Pea. To grow for hay they are most valuable, as they yield an immense quantity of food.

Black .....	} Market Price.	Red Ripper ..	} Market Price.
Black Eye....		Crowder .....	
Clay .....		Wonderful, or	
Whippoorwill		Unknown..	

**FIELD PEAS. Feld Erbsen.**

	Pk.	Bush.
Canada Field .....	\$0 50	\$1 85

**FIELD LUPINS. Feld Lupinen.**

	Pk.	Bush.
Yellow .....	\$1 25	\$4 50
White .....	1 25	4 50
Blue .....	1 25	4 50

**SOJA BEANS.**

**The Tall Variety.**—Habit of growth, very luxuriant; grows 3½ to 4½ feet high on good land. Will yield 3 to 4 tons of dry forage per acre, and the feeding tests show it to be richer than clover hay. A test acre, grown on rich river bottom land, threshed over 100 bushels of clean seed per acre. The Massachusetts Experiment Station says of them: "They are probably the richest vegetable substance grown for farm use."<sup>2</sup>

	Pk.	Bush.
The Tall Variety .....	\$1 00	\$3 50
Dwarf .....	1 00	3 50

**VETCHES, SPRING TARES. Widen.**

	Pk.	Bush.
Sand Winter, or Hardy Vetch .....	\$1 25	\$4 50
Tufted Vetch, or Bird's Tares .....	1 25	4 75

**FORAGE PLANTS. Futter Pflanzen.**

	Lb.	10 lbs.
Dwarf Essex Rape .....	\$0 15	\$1 00
Kaffir Corn .....	10	85
New Rural Branching Dhoura .....	10	85
Wild Rice .....	20	1 85
Early Orange Sugar Cane .....	10	85
Jerusalem Corn .....	15	1 40
Brown Dhoura .....	10	85
Sacaline, pkt., 10c; oz., \$1.25; ½ lb., \$8.00; lb., \$15.00.		
Teosinite, pkt., 5c; oz., 10c; ½ lb., 65c; lb., \$1.25.		
Lathrus Sylvestris, pkt., 20c; oz., 40c; ¼ lb., \$1.25; lb., \$4.50.		

**CANE OR SORGHUM. Zuckerrohr.**

	Lb.	10 lbs.
Early Orange .....	\$0 10	\$0 85
Early Amber Sugar Cane .....	10	85

**FLAX. Flachs.**

	Lb.	50 lbs.	100 lbs.
Flax .....	\$0 15	\$6 00	\$8 00

**OSAGE ORANGE. Hecken Pflanzen.**

	Lb.	50 lbs.	100 lbs.
Osage Orange .....			

**EGYPTIAN CASTOR BEAN.**

This is a New Ornamental Bean, which grows about twenty feet high, with large leaves. A wonder among the bean family. Per lb., 40c.

**AUSTRALIAN SALT BUSH.**

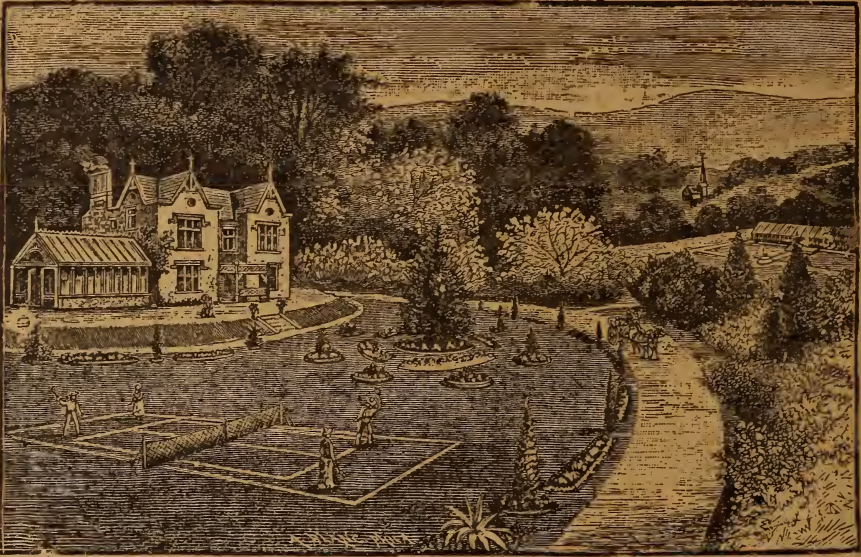
**THE FORAGE PLANT FOR ALKALI SOILS.**—Yields 20 tons to the acre on any soil without water. Introduced into the United States by the University of California. Experiments and actual tests have shown that Salt Bush is a hardy, dry-air plant, capable of thrifty and substantial growth in any soil. Its nutritious strength is equal to Alfalfa or Lucerne. Hogs, sheep and cattle are extremely fond of it, and chickens will leave almost any other food for it. It will stand cold to a temperature of 19 degrees, and heat to 150 degrees. Experiments in California, Colorado, Arizona, New Mexico, Montana, Idaho, Utah, South Carolina and Florida have been uniformly successful.

One plant will cover 500 square feet in one season, covering the ground with a matting of from six to eight inches thick. It remains green all winter, and will yield 20 to 30 tons to the acre. It produces wool and mutton of superior quality. Horses fed on it seem to be possessed of inexhaustible endurance. One pound of seed will plant an acre. Sow broadcast, in soil well pulverized, after all danger of frost is past. Mix the seed with ten times its weight of loam, sand, ashes or plaster; cover lightly with a brush harrow or roll lightly. The seed germinates quickly, and the plants soon take possession of the ground; or, it may be sown in a hot-bed, cold frame or boxes. Transplant when two inches high.

Prices: Seed of the **TRUE AUSTRALIAN SALT BUSH** (*Atriplex semibaccatum*), grown for us in California, per pkt., 10c; oz., 20c; ¼ lb., 50c; lb., \$1.50, post-paid.

**New Domestic Coffee Berry Beans.**

# TOWER GROVE PARK LAWN GRASS.



To see the fine LAWNS grown from our PREMIUM LAWN GRASS SEEDS you can go to any Park of St. Louis. We have been supplying the City for a number of years in succession, which you can see on record.

This Grass is composed exclusively of the very best varieties, such as long experience has shown to be the best adapted to produce a thick, heavy, carpet-like lawn. In this mixture we use only the very best re-cleaned seed, and we can guarantee that for purity and germination it is equal to any variety sold under any name. One of the greatest troubles in obtaining a good lawn is to get it free from weeds. These, while not always in the seed, are quite often in the ground, or come from the use of stable manure. Our customers can rely, in buying the Tower Grove Park Lawn Grass, on its being the purest seed obtainable, and entirely free from any foreign seeds. The quantity required for making new lawns is five bushels per acre, or for renovating old lawns, two to three bushels. For a space fifteen by twenty, or three hundred square feet, one pound is required for new, or half a pound for renovation. There are two ways of forming a lawn, by turfs, and by sowing the Grass seeds. If good turfs can be had the lawn may be formed very quickly. By the making of a lawn by transplanting the sods is at best a laborious and expensive method, and in many cases is absolutely impossible, on account of their being no good turf in the neighborhood. A good lawn can be had in from ten to twelve weeks by sowing the Grass seeds, and the final result will be the most satisfactory.

The best time to sow is early in Spring, as the moist weather then experienced is favorable to the quick germination of the seed, and gives the young plants a chance of being established before the Summer comes with its burning heat. The next best time is in September and October, as the weather is then comparatively cool, and sufficient growth may be made to establish the plants before the approach of Winter. Sow thinly and evenly, selecting a calm day for the purpose, and cover the seeds lightly with a wooden rake. After the Grass is well up, a moderately heavy roller may be passed over it to firm the surface.

During the season frequent watering and mowing will be necessary. A good supply of water is very important, as the fierce heat during the Summer is apt to burn the Grass out. The best time to water is in the evening or early morning, and the application should be copious; a slight sprinkling will do very little good.


**MEN WHO KICK** about weeds in their lawns should blame themselves for it. If they buy their lawn seed from a man who makes the seed business a "side line," they can not get as good seed as when they go to a reliable seed store. Our lawn seed is a mixture of the best re-cleaned seeds, and we guarantee it to make a beautiful lawn the first year, without weeds, unless they are in the ground from manure, or in the "black soil" hauled in.

# FLOWER SEEDS

## ANNUALS

And Other Flowers, Blooming the First Year from Seed.

In this department we include not only Annuals that bloom and die the first year, but also those Perennials that flower freely the first year from seeds. Upon this class of plants the garden is dependent for many of the brightest, most showy and beautiful flowers, and consequently we have taken special care in the growth and selection of the choicest seeds. We have this year transferred to the following pages many novelties of recent introduction and of real beauty. For Flower Seeds by the pound and ounce, send for special prices.

 ON ALL ORDERS FOR SEEDS IN PACKETS the purchaser may select **TWENTY-FIVE CENTS' WORTH EXTRA** for Each **ONE DOLLAR** sent us. Thus any one sending **\$1.00** can select seeds in packets amounting to **\$1.25**; for **\$2.00**, seeds in packets to the value of **\$2.50**, and so on.

<b>ABRONIA.</b> Charming trailing annuals, height, nine to eighteen inches, flowering freely in large Verbene-like trusses, very fragrant. They succeed well in the garden border, in beds, rock work or basket.	PER PKT. 5
100 <i>Arenaria</i> .....	5
101 <i>Umbellata</i> . Rosy pink.....	5
<b>AGERATUM.</b> Annuals, bearing in profusion clusters of feathery flowers, suitable for pot culture in Winter or bedding out in Summer, flowering continually and profusely. Two feet high.	PER PKT. 5
102 <i>Blue</i> .....	5
103 <i>White</i> .....	5
104 <i>Mixed</i> .....	5
<b>TOM THUMB AGERATUM.</b> Splendid very dwarf variety for edgings and ribbon lines; covered with flowers until frost; height, three-quarter foot.	
105 <i>Tom Thumb</i> . <i>Blue</i> . A beautiful variety, bearing large trusses of flowers in such abundance as to almost cover the plant.....	5
<b>ALYSSUM.</b> This old favorite should be largely used in every garden. It is of easiest culture, and its fragrant flowers are produced all Summer.	
106 <i>Sweet Alyssum</i> . <i>White</i> , in clusters. <i>Oz.</i> , 30c.....	5
107 <i>Benthami Compactum</i> . More dwarf and compact, known as <i>Tom Thumb Sweet Alyssum</i> .....	5
<b>AMARANTHUS.</b> Very ornamental plants, some remarkable for large panicles of showy flowers and others for the brilliant range of colors in the leaves.	
108 <i>Caudatus</i> ( <i>Love-lies-bleeding</i> ). Long red panicles.....	5
109. <i>Princess of Wales</i> . Foliage beautifully blended.....	5
110 <i>Splendens</i> ( <i>Rainbow Plant</i> ). Inner foliage of a very dark blackish-bronze, tipped with green; the outer foliage where exposed to the light is an intense flaming crimson and shining gold, while some of the leaves comprise crimson, gold, bronze and green. 5	5
111 <i>Salicifolius</i> ( <i>Fountain Plant</i> ). Willow-like foliage.....	5
112 <i>Tricolor</i> ( <i>Joseph's Coat</i> ). Yellow, red, green 5	5
113 <i>Mixed</i> . All kinds.....	5
<b>ANTIRRHINUM</b> ( <i>Snap Dragon</i> ). Those who have cultivated only the old fashioned, faded <i>Snap Dragon</i> have no idea how bright and beautiful these new and improved varieties are. They are easily raised from seeds, make a gorgeous bed on the lawn, and if freely cut they bloom incessantly throughout the season. Our mixtures contain all the new and choice colors, including the beautifully striped, variegated and margined.	
114 <i>Tall varieties</i> . <i>Mixed</i> .....	5
115 <i>Dwarf varieties</i> . All colors mixed.....	5
116 <i>Anagallis</i> . Low-growing plants, with remarkably bright and handsome flowers; mixed varieties.....	5
<b>ABUTILON</b> ( <i>Flowering Maple</i> ). Although universally admired, comparatively few are aware how easily <i>Abutilons</i> can be raised from seed and how beautifully they flower all Summer the first season. To get them in bloom early the seed should be started in the house and the young plants set out in the garden when the weather is warm and settled. They grow rapidly bearing a rich profusion of the elegant, bell-shaped flowers. A splendid house plant, blooming freely in Winter.	
117 <i>Prize</i> . <i>Mixed</i> . Embracing the most elegant colors, both selfs and streaked and veined.....	15
118 <i>ADONIS Æstivalis</i> . The <i>Flos Adonis</i> has fine, pretty foliage, with bright-scarlet flowers.....	5
119 <i>AGROSTEMMA Cœli rosa</i> ( <i>Rose of Heaven</i> ). Abundant bloomer, with deep rose flowers, very pretty in masses.....	5
<b>ALONSOA</b> ( <i>Mask Flower</i> ). Free-flowering bedding plant, with handsome flowers, in bloom until frost.	
120 <i>Grandiflora</i> . Bright scarlet, one and one-half feet.....	5
121 <i>Linifolia</i> . Orange scarlet, one and one-half feet.....	5

**ASTERS.**

Not only the most popular, but the most effective in the entire list, while most easy of culture, there is no flower which combines so much beauty and variety of color and shape and habit as the modern Aster. For a late Summer or Fall display they have no successful rival. Give them a rich soil, and in hot, dry weather they should be mulched and well watered.



GLOBE FLOWERED ASTER.

**TRUFFAUT'S PÆONY PERFECTION ASTER.**

A very favorite type. Thrifty, upright plants, large, fine flowers, with long in-curved petals.

- The florists' Aster and one of the finest. PER PKT.
- 122 Pæony Perfection. Finest mixed..... 5
  - 123 " " Satin white..... 5
  - 124 " " Crimson..... 5
  - 125 " " Dark blue..... 5

**DWARF CHRYSANTHEMUM FLOWERED ASTERS.**

Plants only ten to twelve inches high, producing flowers of the largest size and choicest colors.

- 126 A. Chrysanthemum Flowered. Mixed..... 5

**VICTORIA ASTERS.**

A magnificent race of Asters. The colors include many delicate and some gorgeous shades, flowers very double and four inches across and from twenty to thirty in a single plant, fifteen to eighteen inches high.

- 127 A. Victoria. Choice mixed..... 5
- 128 " " Pure white..... 5

**GERMAN QUILLED ASTER.**

Flowers composed of tube or quill-shaped petals. Very beautiful with a great variety of colors.

- 129 German Quilled. Mixed..... 5
- 130 " " Pure white..... 5

**Chinese Asters.**

Choice mixed; twelve sorts. 5

132 Dwarf Bouquet. A most charming class, of compact habit, only six to eight inches high. Each plant is covered with handsome flowers and looks like a bouquet set in the ground. Fourteen colors..... 5

**Globe Flowered.**

Best German mixed..... 5

**White Plume Aster.**

A grand Aster having large, plume-like flowers, cream white in color and lasting a long time.....10

**New White Plume Aster.**

Extra Fine Florist Strain. A pure white Aster of great beauty; it cannot always be relied upon to produce feathery form, but a first-class flower may always be expected of grand size and pure color.....25

**ASPERULA.** A hardy dwarf annual, with clusters of small, sweet-scented flowers, lasting a long time while in bloom, fine for bouquets; one foot. PER PKT.

136 *Odorata* (*Sweet Woodruff*). Chief ingredient in the "Maitrank," or May wine of the Germans. The dried flowers and leaves have a delicious perfume, and imparts an agreeable perfume to clothes, etc., when kept among them..... 5

**BALSAM** (*Lady's Slipper*).

An old and favorite garden flower, producing its gorgeous masses of beautiful, brilliant-colored double flowers in the greatest profusion, of easy culture, succeeds in a good rich soil.



BALSAM PERFECTION.

- 137 Balsam, Double White. Oz., \$1.00..... 5
- 138 Balsam, Double Perfection. Very double, immense, solid round flowers. Oz., \$1.50..10
- 139 Balsam, Double Camellia Flowered. Finest mixed. Oz., \$1.00.....10
- 140 Balsam, Double Mixed. Occasionally semi-double. Oz., 50c..... 5
- 141 Balsam, Double. Collections of six colors..50
- 142 Balsam, Double Scarlet (*King*)..... 5
- 143 " " Pink (*Maiden's Blush*)..... 5
- 144 Balsam, Double Solferino. Striped and spotted..... 5
- 145 **BARTONIA.**—*Aurea*. One of the most showy of our hardy annuals. The plants grow eighteen inches to two feet high, with thistle-like, downy leaves, commence to flower early and bloom continuously throughout the Summer; the large, saucer-shaped flowers, two and one-half inches across, are of a bright metallic yellow, and intensely brilliant..... 5
- 146 **BRACHYCOME.**—*Iberidifolia* (*Swan River Daisy*). Very effective dwarf-growing plants, covered for months with a profusion of single daisy-like flowers, blue and white mixed; one-half foot..... 5
- 147 **BROWALLIA.** Handsome plants, eighteen inches tall, with shining green foliage and bright blue and pure white flowers, mixed.. 5

You should try Dickmann's Giant Summer Cabbage for an early crop. It will be sure to pay you. See page 19.

OUR FLOWER SEEDS ARE THE BEST TO BE FOUND.

**BEET.—Ornamental Foliaged.** The large, growing varieties of the Chilian Beet are very attractive as the center of the circular beds surrounded by the *Dracæna Leaf Beet*, *Nasturtiums*, and other dwarf plants. PER PKT.

- 148 **Scarlet Ribbed Chilian.** Immense leaves, of indescribably rich crimson bronze, with mid-ribs of shining scarlet. Oz., 15c..... 5
- 149 **Yellow Ribbed Chilian.** Leaves greenish-yellow, with deep golden-yellow mid-ribs. Oz., 15c..... 5
- 150 **Dracæna Leaf.** Entirely unique, its ornamental, dark red, lustrous leaves resembling the *Dracæna*, very rich and beautiful for borders. Oz., 15c..... 5



DOUBLE DAISY.

**BELLIS (Double Daisy).** Daisies are easily raised from Spring-sown seed, and come into flower in a very short time. Among the most charming Spring flowers, they are most indispensable for cool, shady places. With protection they will stand the Winter.

- 151 **Fine German Double Mixed**..... 5
- 152 **Extra Double White.** Fine..... 5

**CALENDULA.** The old pot "Marigold." Are really of remarkable beauty, deserving a place in every garden.

- 153 **Double Mixed (Pot Marigold).** Oz., 15c..... 5
- 154 **Meteor.** Perfectly double and beautifully striped cream color, edged with orange. Oz., 20c..... 5
- 155 **Prince of Orange.** Large, deeply imbricated flowers, pale straw yellow, striped with a most intense shade of orange. Oz., 25c..... 5
- 156 **Convolvulus Minor.** The *Dwarf Morning Glory* is a beautiful plant of trailing habit, and is a perfect mass of bloom..... 5

**CANDYTUFT.** Among the most useful of hardy annuals. Perfectly hardy, and produces its neat clusters of flowers very freely.

- 157 **White.** Oz., 20c..... 5
- 158 **Rocket.** Spikes of white flowers. Oz., 20c... 5
- 159 **Dark Crimson**..... 5
- 160 **New Carmine.** The richest in color..... 5
- 161 **Mixed.** Including above varieties. Oz., 20c... 5

162 **CHRYSANTHEMUM.** (*French Marguerites, or Painted Daisies*). These annual *Chrysanthemums* have no resemblance whatever to the perennial varieties, also so popular, but have a distinct beauty. The plants grow twelve to eighteen inches high, and produce on long stems beautiful large flowers of many bright colors, having the appearance of being laid on with a brush..... 5

163 **NEW DWARF CANNAS.** These new dwarf ever-blooming, large flowering French *Cannas* bloom freely the first year from seed. They are much less expensive and incomparably more beautiful for bedding than the best *Geraniums*. In fact, we cannot recall any other plants that have ever given us such satisfaction in masses or in beds, while even single specimens are most attractive in the garden. The roots can be kept in the cellar over Winter, and each clump will give six to eight good roots for planting out in the following Spring. The *Mixed Seed* we offer has been saved from the finest varieties of all colors. Oz., 60c; 3 pkts., 25c.....10

164 **Calandrinia Grandiflora.** Very beautiful dwarf growing annual for the flower garden; in the sunshine the large rose-colored flowers expand into a perfect blaze of beauty..... 5

165 **Cacalia (Tassel Flower).** Small tassel-like blooms, often called *Flora's Paint Brush*, gracefully borne on long stems; useful for cutting; bright scarlet and yellow mixed..... 5

**CENTAUREA (Blue Bottle, or Bachelor's Button).** One of the most attractive of all hardy annuals, the graceful beauty of its old-fashioned flowers being universally admired. A hardy annual of the easiest growth, and flowers freely and continuously, height two to three feet, flowers excellent for cutting.

166 **Cyanus.** Mixed. Including dark and light blue, purple, pink, rose, white, etc. Oz., 25c..... 5

167 **Mascuta, or Sweet Sultan.**..... 5

168 **Clarkia.** Very free flowering, flowers white with brilliant carmine center..... 5

169 **Mixed.** Double and single varieties..... 5

170 **CHRYSANTHEMUM.—Double, Coronarium mixed.** White and yellow, double flowers..... 5

171 **Sulphureum fl. pl.** Produces numerous very pretty, double flowers, of a rich lemon color..... 5

172 **CASTOR OIL BEAN.** See *Ricinus*..... 5

**CALLIOPSIS.** Very handsome and showy plants, with numerous flowers of brilliant colors and of long duration in bloom. Of the easiest culture, they require no care and thrive in any garden.

173 **Drummondii (Golden Wave).** Bushy, compact plants, covered all summer with bright golden flowers, two inches across, each distinctly marked with dark brown center. Oz., 20c..... 5

174 **Mixed.** All varieties and colors. Oz., 20c... 5

**CELOSIA (Cockscomb).** Quite easy to grow and certainly one of the most showy and brilliant of annuals. The combs of the best varieties often grow a foot or more across the top.

176 **Fire-Feathered.** The plant grows three feet high, and the main stems puts forth thirty to thirty-five branches, each crowned with a feathery flowery head of an intense fire color..... 5

- 177 **PREMIUM COCKSCOMB.** This is the best dwarf-growing Cockscomb we have, are firmly set in the crown, with well-balanced, large heads, two to twenty inches across. They grow very uniform and present an unusually solid effect in color, which is a rich ruby-red of extreme brilliancy. 3 pkts., 25c.....10



COCKSCOMB.

- 178 **Dwarf Golden Rose.** Large combs of bright rose, marked with a stripe of clear golden yellow..... 5
- 179 **Empress.** Mammoth, bright purple combs, 5
- 180 **Glasgow Prize, or Tom Thumb.** A fine dwarf variety, dark leaves and crimson combs..... 5
- 181 **Dwarf Mixed.** Various shades of red..... 5
- 182 **Gold Feathered.** This is in all respects like the Fire Feathered Celosia, except that the feathered flower heads are of a bright golden-orange color..... 5
- 183 **Feathered Varieties, Mixed.** Oz., 50c..... 5
- 184 **CREPIS Rubra (Hawkweed).** Rosy, double flowers..... 5
- 185 **CUPHEA Miniata.** A pretty little half-hardy annual, bearing numbers of curiously-shaped flowers, of a bright vermilion scarlet, with violet center.....10
- 186 **CINERARIA Maritima (Dusty Miller).** Very ornamental for bedding and as a decorative plant. Of dwarf, compact habit, with a handsome silvery-white foliage; can be grown very easily from seed. A beautiful plant for decorative purposes..... 5
- 187 **COLLOMIA Coccinea.** Numerous heads of fine red flowers, somewhat like a Bouvardia..... 5

**COSMOS Hybridus.** Of very rapid growth, and make large bushes fully five feet high, which are a mass of elegant foliage until they bloom in August. From September until November each plant is covered with hundreds of showy blossoms two inches in diameter. The flowers resemble single Dahlias, and are pure white, flesh color, charming light pink, and deep rose in color, each with a bright yellow center. They are very easily raised and they make a grand display. PER PKT.

- 188 **All Colors.** Mixed..... 5
- 189 **Pure White.** Large, pure white flowers, extremely beautiful; very valuable for florists..... 5
- 190 **Pure Pink.** Beautiful large flowers of a clear, delicate pink color..... 5
- 191 **CYNEGLOSSUM (Venus Navelworth)**..... 5
- DATURA (Angel's Trumpet or Sweet Nightingale).** Very showy, large-branching plants, growing three to five feet high, bearing immense trumpet-shaped flowers, six inches in length and very fragrant. They bloom freely from seed sown in the open ground the first season, but the roots can be taken up and kept over Winter the same as Dahlias.
- 192 **Wrightii.** Large, single, white flowers..... 5
- 193 **Fastuosa, fl. pl.** Large, double white..... 5
- 194 **Fastuosa, fl. pl.** Double purple..... 5
- 195 **Mixed.** Seeds of all the above..... 5

**DIANTHUS (PINKS).** The China and Japan Pinks are deservedly very popular, as few flowers can equal them in beauty and profusion of bloom. They comprise many distinct and most beautifully marked varieties, of rich and varied colors. They bloom continually all Summer and Fall, until severe frost; they live over Winter and bloom finely again the second season. They are alike ornamental in the garden and for bouquets. Plants ten to fifteen inches high, and are of the easiest cultivation.

- 196 **Chinensis (Double Chinese Pinks).** Clusters of small double flowers, finest mixed. Oz., 50c..... 5
- 197 **Chinensis albus, fl. pl.** Double white..... 5
- 198 **Diadematus, fl. pl. (Double Diadem Pink.)** Marked like the original Chinese Pinks, very double, large flowers, magnificent in color and variety..... 5
- 199 **Heddewiggii, Finest Single.** Mixed. Flowers two to three inches in diameter. Oz., 75c..... 5
- 200 **Heddewiggii, fl. pleno.** Finest double mixed, in great variety, extra choice. Oz., 75c..... 5
- 201 **OUR OWN MIXTURE** of all the above splendid varieties. ½ oz., 35c; oz., 60c... 5

**Slug Shot is sure death to all insects that injure the garden and field crops.**

## MARKET GARDENERS

Who buy seeds in large quantities are requested to write for **WHOLESALE PRICES.** While the prices quoted in this Catalogue are very reasonable, yet frequently we have orders for large quantities of certain seeds (such as Onion, Cabbage, Carrot, Cucumber, Melon, Radish, Turnip, etc.), and the purchaser naturally expects to buy at a price lower than that charged for a single pound.

**You don't "TRY OUR SEEDS," we try them, before you get them.**

**DAHLIAS.** Every one knows and admires the Double Dahlia but comparatively few are aware that it can be grown so easily from seed and flowers so beautifully the first season that the purchase of bulbs is a needless expense. We offer the choicest seed, that, if sown in the Spring, will give a magnificent display of the brightest colors by August. PKT.



SINGLE DAHLIA.

202 Choice Mixed Pompon ..... 10

203 Mixed. Single sorts... 5

204 ESCHSCHOLTZIA (*California Poppy*). Mixed. Flowers yellow, orange and white, leaves finely cut, height, ten to twelve inches, very showy... 5

205 EUPHORBIA *Marginata* (*Snow-on-the-Mountain*). A hardy annual, growing two feet high, with beautiful foliage, elegantly veined and margined with white, very showy. Oz., 25c..... 5

**EGG-PLANT.** Not edible. Ornamental, fruit-bearing plants, growing freely in rich, light, warm soil.

206 White-fruited. Egg-shaped ..... 5

207 Scarlet-fruited. Handsome, dark-green foliage ..... 5

208 ERYSIMUM *Hedge Mustard*. Hardy annual, sweet scented, good for bouquets, etc.. 5

209 FORGET-ME-NOT. See *Myostosis* ..... 5

210 FOUR-O'CLOCK. See *Marvel of Peru*..... 5

**GAILLARDIAS.** Although long neglected, the single Gaillardia, or *Blanket Flower*, has lately come into well-deserved popularity. Of magnificent size and wonderful profusion, the flowers are greatly admired for their fine forms and rich blending of colors, while they thrive well everywhere.

211 Mixed colors..... 5

212 GILIA. Mixed. All varieties. Good for cutting, of dwarf habit, will bloom almost anywhere 5

213 GAMOLEPIS *Tagetes*. Of compact growth, with fern-like foliage and bright-yellow, daisy-like flowers..... 5

214 GODETIA *Albemarle*. Plants compact, profusely covered with rosy-carmine flowers.. 5

215 Fine mixed. Many varieties. Oz., 25c..... 5

216 GYPSOPHILA *Elegans*. A mass of the finest little leaves and branches, covered with tiny, white flowers. Useful for bouquets, its delicate sprays imparting a light appearance ..... 5

217 HELIANTHUS (*Sunflower*). The Dahlia. Produces numerous bright golden-yellow flowers, which are generally perfectly double ..... 5

218 Mammoth Russian. Very large. Oz., 10c.. 5

219 Primrose. Small Sunflower of trim appearance ..... 5

**HELIOTROPE.** Every one loves the delightful fragrance and beauty of the Heliotrope, but very few are aware of the fact that it can be raised from seed as easily as Verbenas. From seed sown in the open ground the plants will flower in August, while a fine display can be had earlier by starting the seed in the house and setting out plants when the weather is warm.



MIXED SINGLE DAHLIAS.

BEAUTIFY YOUR GARDENS WITH LITTLE MONEY.

- PER PKT.
- 220 Choice mixed. Many varieties..... 5
- 221 Dark Bouquet. The large flower heads are intensely dark, of the deepest blue in color and most deliciously fragrant. It comes true from the seed..... 5
- 222 HIBISCUS. Hardy annual, with large, showy flowers, very ornamental..... 10
- 223 ICE PLANT (*Mesembryanthemum crystallinum*). Fine for vases, singular icy foliage. 5
- 224 JACOBCEA ELEGANS. Double mixed, an old favorite for flower borders, continuously in bloom and useful for cutting, one foot high..... 5
- LARKSPUR. Well-known annuals of great beauty, and noted for richness of their colors.
- 225 Double Dwarf Rocket. Finest mixed..... 5
- 226 Tall Rocket. Double mixed..... 5
- 227 Emperor Larkspur. Really splendid, a single plant having fifty or more erect spikes of flowers..... 5
- 228 LINARIA Bipartita splendida. A very attractive, free-flowering, hardy annual, heads of handsome purple flowers, resembling the snap-dragon..... 5
- 229 LINUM Grandiflorum rubrum (*Crimson Flax*). One of the most beautiful annuals known. Valuable for bedding..... 5
- LOBELIA. Very dwarf plants, growing four to six inches high and forming dense masses of flowers. Of easy culture, and well adapted for bedding, edging, pots or rockeries.
- 230 Erinus, compacta. Deep, rich blue.  $\frac{1}{2}$  oz., 75c..... 5
- 231 Erinus compacta alba. White.  $\frac{1}{2}$  oz., 75c.. 5
- 232 Erinus Crystal Palace. Dark blue, splendid. 5
- 233 Finest mixed varieties. Oz., 50c..... 5
- LYNCHNIS (*Burning Star*). Grand, hardy perennials, which grow and bloom from the same roots, year after year, requiring no protection. They will flower freely the first year if the seed is sown early.
- 234 Chalcedonica. Intensely bright scarlet..... 5
- 235 LOVE-IN-A-MIST. See *Nigella*.
- 236 LUPINUS Subcarnosus (*The Deep-Blue Lupin*). Its neatly cut, lively green foliage carpets the ground, from which are borne upright, on stems six to eight inches long, lovely spikes of the deepest sea-blue flowers, delicately fragrant..... 5
- 237 Mixed. All annual varieties..... 5
- MALOPE. This old hardy annual is a favorite wherever known, as few plants produce more beautiful flowers. The plants grow eighteen to twenty inches high, and bear large single flowers.
- 238 Grandiflora mixed. Crimson, rose and white ..... 5
- MARIGOLD. The African varieties are stronger in habit, and produce larger flowers than the French.
- 239 African Double. Mixed. All varieties..... 5
- 240 French Double Dwarf. Mixed colors, of compact habit, numerous bright flowers.... 5
- MARVEL-OF-PERU (*Mirabilis*). The Marvel-of-Peru, or Four o'clock, is as easily grown as a weed, and is one of the most brilliant and showy of annuals. Planted in beds or masses, their compact growth, rich, glossy leaves, together with their profusion and diversity of bloom, present a gorgeous sight during the afternoon. PER PKT.
- 241 Marvel of Peru. Mixed, all colors. Oz., 15c. 5
- 242 MATRICARIA (*Feverfew*). *Eximia fl. pl.* Extremely beautiful plants, twelve inches high. Grows freely in any soil and bears numerous, perfectly double, pure white flowers, one inch in diameter..... 5
- MEDICAGO. These plants are grown for their curiously shaped seed pods—being of most peculiar shapes.
- 243 Acutellata (*Snails*). Flowers small, yellow.. 5
- MATHIOLA (*Sweet-scented Stock*). A charming hardy annual, which sown early begins to flower in June, and bears a great profusion of fragrant flowers.
- 244 Bicornis. Light lilac-pink, very sweet. 5
- 245 Martynia fragrans. Fine Summer blooming garden plants, with large crimson Gloxinia-like flowers, followed by curiously horned fruits, one and a-half feet..... 5
- 246 Mixed Varieties..... 5
- MIGNONETTE. The Mignonette is a universal favorite on account of its sweet and delicate fragrance. The seed should be scattered liberally in sunny situations. The flowers of some of the newer varieties, described below, are of wonderful perfection.
- 247 Reseda odorata, Sweet Mignonette. Oz., 15c..... 5
- 248 Odorata grandiflora ameliorata. Oz., 20c.. 5
- 249 Giant Pyramidal. Very fine, large flowers of compact, pyramidal habit. Oz., 35c..... 5
- 250 PURE MATCHET. Of vigorous, pyramidal growth, with very thick, dark-green leaves, numerous stout flower stalks, bearing massive spikes of deliciously scented reddish-gray flowers, of great substance.  $\frac{1}{2}$  oz., 50c..... 10
- 251 Golden Queen. Very fine new variety, with flowers of a golden hue, highly effective, of dense, pyramidal habit. Oz., 40c.. 5
- 252 Mixed. Including many varieties. Oz., 25c. 5
- MIMULUS (*Monkey Flower*). Tender-looking plants, with singularly shaped and brilliantly colored flowers, blotched and spotted in every conceivable manner. Excellent for baskets or vases, while they thrive well in the garden if planted in partial shade.
- 253 Tigrinus. Fine hybrid varieties, mixed..... 5
- 254 Tigrinus grandiflorus. Very large-flowered and tigered and spotted varieties, most beautiful ..... 10
- 255 Moschatus (*Musk Plant*). Leaves musk-scented..... 5
- MYOSOTIS (*Forget-me-not*). These charming little favorites succeed best in damp, sandy situations, but thrive well in almost any soil.
- 256 Palustris. The true marsh, Forget-me-not, small, blue flowers..... 5
- 257 Alpestris. Blue, dwarf, free-flowering... 5



- 258 **Alpestris alba.** White, height, six inches... 5  
 259 **Semperflorens.** Blue, a dwarf variety, flowers from early Spring until the Autumn very fine.....10

**TOM THUMB NASTURTIUMS.**

The improved Dwarf or Tom Thumb Nasturtiums are unrivaled in beauty and effect. When planted in poor soil, they flower most profusely and remain long in bloom. We recommend a liberal use of the seed, in variety.

- 260 **Tom Thumb Beauty.** Yellow and scarlet... 5  
 261 **Palace Gem.** Sulphur, spotted maroon..... 5  
 262 **Lady Bird.** Its striking flowers are produced in profusion throughout the Summer. The ground color of the flowers is rich golden yellow, each petal barred with a broad vein (starting from the base) of bright ruby crimson. Oz., 25c.....10  
 263 **Tom Thumb Varieties.** Mixed. Including the above and other choice colors. Oz., 15c; ¼ lb., 40c; lb., \$1.25..... 5

**NEMOPHILA (Love Grove).** Of neat, compact habit, blooming freely all Summer. If thinned to four inches apart the plants will present a dense mass.

- 264 **Mixed.** Many rich, bright colors..... 5  
 265 **NIGELLA (Love-in-a-Mist).** Very showy in foliage, flowers, and seed pods. The pretty flowers are surrounded by a delicate wreath of fine, mossy, green fibers.

265 **Damascena, Double.** Mixed. With finely cut leaves and curious blue and white flowers..... 5

266 **Dwarf, Double.** Of compact, neat habit of growth. A little gem, with white and blue flowers..... 5

267 **NICOTIANA Affinis.** Produces splendid pure white, Bouvardia-like flowers on long terminal tubes. When its large flowers are fully expanded in the evening and morning it has a most striking effect, and is so fragrant that a small bed will perfume the whole surrounding atmosphere. Taken up in the Fall, cut back, and potted, it will bloom freely all Winter..... 5

268 **NOLANA.** Mixed. Very pretty trailing plants for rock-work, hanging baskets, flower borders, etc. Flowers resemble the Dwarf Convolvulus..... 5

269 **GENOTHERA (Evening Primrose).** **Acaulis alba.** Saucer-shaped, silver-white, flowers, of enormous size, very striking and fragrant..... 5

270 **Drummondii.** Very large, bright-yellow flowers..... 5

271 **OXALIS.** Exceedingly free-flowering little plants with lively foliage, and entirely covered with bright flowers from June until September. Very useful for edgings, as they form an even and pleasing border.. 5



PRIZE MIXED PANSIES.

**PANSIES.** Pansies are the most popular of all flowers grown from seed. It is needless to say anything in praise of such a universal favorite. It is everywhere popular, both for the brilliant beauty of its flowers and the long continuation of bloom. Pansy seed is a specialty, and we have not only a large collection of varieties, but also the very best seed of each variety.

272 **Giant Odier.** The flowers, of immense size, are of the popular Odier type, being all three-spotted or five-spotted on back-grounds of very rich colors, the flowers are of good substance and fine form, plants are of neat, compact growth. ⅓ oz., 85c; oz., \$6.00; pkt., 15c.



GIANT ODIER.

273 **Odier, or Blotched.** Superb, large-eyed flowers of very good shape, and beautifully blotched with rich and varied colors. ⅓ oz., 60c; oz., \$4.00.....10

274 **Pheasant's Eye (Rainbow).** Upper petals sky-blue, edged with violet, the lower petals are mostly purple, sometimes on a white, sometimes on a yellow ground, marble and spotted. ¼ oz., 50c; oz., \$1.50.. 5



PANSIES.

	PER PKT.
275 <b>Prince Bismarck.</b> Beautiful shades of brown and golden-bronzed marbled. $\frac{1}{4}$ oz., 50c; oz., \$1.50.....	5
276 <b>Snow Queen.</b> Flowers of a delicate pure satiny-white. $\frac{1}{4}$ oz., 50c; oz., \$1.50.....	5
277 <b>King of the Blacks, or Faust.</b> Flowers entirely black, almost coal-black. $\frac{1}{4}$ oz., 40c; oz., \$1.25.....	5
278 <b>Lord Beaconsfield.</b> Large flowers of deep purple violet, shading off in the top petals to a white hue, highly effective. $\frac{1}{4}$ oz., 40c; oz., \$1.25.....	5
279 <b>Emperor William.</b> Flowers of a splendid ultramarine blue, with a well-defined purple-violet eye. $\frac{1}{4}$ oz., 40c; oz., \$1.25.....	5
280 <b>Dark Purple.</b> Rich, deep color. $\frac{1}{4}$ oz., 40c.....	5
281 <b>Silver-edged.</b> Dark purple, white border....	5
282 <b>Striped and Mottled Varieties.</b> Very fine and exceedingly beautiful. $\frac{1}{4}$ oz., 40c; oz., \$1.25.....	5
283 <b>Gold-margined.</b> Strikingly handsome.....	5
284 <b>Pure Yellow.</b> Large, golden flowers. $\frac{1}{4}$ oz., 40c.....	5
285 <b>Large Flowering.</b> Very fine mixed. Embracing all the separate colors of German Pansies. $\frac{1}{8}$ oz., 25c; $\frac{1}{4}$ oz., 40c; oz., \$1.25..10	
286 <b>Good Quality.</b> Mixed. Fine for bedding, many rich colors. $\frac{1}{4}$ oz., 25c; oz., 85c....	5
287 <b>PRIZE MIXED.</b> An extra fine mixture of all the best varieties of show, fancy, striped and spotted Pansies, and also the giant-flowered Pansies of the improved Giant Odier types. $\frac{1}{8}$ oz., 50c; oz., \$3 50..10	

	PER PKT.
288 <b>Petunia Hybrida.</b> Finest mixed. A good mixture, embracing all colors, including striped and blotched varieties, very profuse flowering and excellent for bedding or massing. $\frac{1}{4}$ oz., 30c.....	10
289 <b>Hybrida.</b> Mixed. Good imported seed. Oz., 50c.....	5
290 <b>Large flowering.</b> Fine Mixed. All colors..15	
291 <b>Blue Veins.</b> Fringed. Elegant flowers, deeply fringed, of various shades of purple, rose and lavender, delicately veined and penciled.....	20
292 <b>BEST DOUBLE PETUNIA.</b> The Double Petunia produces no seed and but little pollen—which is carefully used to fertilize the finest single flowers—and from these the seed is saved. In raising plants from this seed great care should be taken to preserve the smallest and weakest plants, as these are the ones that bear the finest double flowers.....	25
293 <b>PERILLA Nankinensis.</b> Valuable for bedding and for general effect as an ornamental plant, beautiful, metallic, bronzy-purple foliage. Oz., 20c.....	5
294 <b>POPPIES.</b> Improved Double Carnation. Mixed. For dazzling richness and variety of colors, the flowers are unequalled. Simply scatter the seed in the open ground and a mass of beauty will result which will be a constant source of pleasure. Oz., 25c.....	5
295 <b>Double Pæony-Flowered.</b> Mixed. Splendid large double flowers, all colors. Oz, 20c, 5	
296 <b>Somniferum (Opium Poppy).</b> True, gigantic white, single flowers. Oz., 20c.....	5
297 <b>THE NEW PHLOXES.</b> ( <i>Starred and Fringed.</i> ) These Starred and Fringed Phloxes are really entitled to rank as a new race, and are beyond question the most striking novelties in Phloxes ever introduced, being of unique and indescribable beauty. In the Fringed flowers the petals are partly fimbriate and partly three-toothed, all distinctly bordered with white, which, together with the bright eye of the center, picturesquely contrasts with the magnificent velvety colors, in more than twenty distinct shades. In the Starred Phloxes the pointed central teeth of the petals (five in number) are five to six times as long as the lateral ones and project beyond them like little spines, one-half inch long, giving the flowers a distinctly marked, regular, star-like form, the beauty of which is enhanced by the broad white margins bordering the edges of the petals. 3 pkts., 25c.....	16



PETUNIA.

**PETUNIA.** Most valuable plants, succeeding well everywhere. They are particularly showy in beds or masses, and are universal favorites on account of their richness of color, fragrance and continuous blooming.

Order all Flower Seeds by their Numbers, it is not necessary to give Names.



PHLOX DRUMMONDII.

**PHLOX DRUMMONDII.** No flowers are more showy or brilliant than this popular annual which thrives so universally throughout our country. The Improved Grandiflora varieties particularly are exceptionally beautiful. PER PKT.

- 298 **Fine Mixed.** All colors of the original type of *Phlox Drummondii*. Oz., 60c..... 5
- 299 **Alba (Pure White).** Our strain of this is really magnificent, the chaste white flowers being of unusual size and perfect form...10
- 300 **Carnea.** A very beautiful Phlox; flowers of a delicate, fleshy pink, with a chamois-rose center.....10
- 301 **Large Blood Red.** The darkest colored of all, being of the deepest blood-red color...10

**PORTULACA.** In brilliancy and beauty of color Portulacas are unrivaled. They delight in sunny situations, where they rapidly carpet the ground, each plant covering a space of about fifteen inches in diameter.

- 302 **Finest Single.** Mixed. In great variety, large flowers of most brilliant colors. Oz., 40c..... 5
- 303 **Rose-flowered, White.** Very chaste..... 5
- 304 " " **Orange.** Bright..... 5
- 305 " " **Red.** Richest..... 5
- 306 **Double Rose-flowered.** Mixed. Unsurpassed for brilliancy and beauty. From first-class seed, over one-half of the plants will produce magnificent double flowers; these can be transplanted eight inches apart as soon as they bloom, thus making the entire bed of double flowers.....10

**RICINUS (Castor-oil Bean).** Picturesque foliage plants that speedily attain gigantic proportions, and are ornamental until destroyed by frost.

- 307 **Gibsoni Coccineus.** The stalks and leaves are of a bright metallic bronze color; the large bunches of fruit are of a burning crimson color..... 5
- 308 **Mixed.** Many choice varieties. Oz., 20..... 5

**SALPIGLOSSIS (Velvet Flower).** One of the most graceful in growth, as well as the most beautiful in flower of the many easily grown garden annuals. The flowers are singularly marked and delicately penciled—in shape somewhat resembling the *Petunia*. PER PKT.

- 309 **Mixed.** All colors..... 5
- 310 **Grandiflora.** The flowers are larger in size, and are most vividly marked, spotted and striped on ground colors of deep blue, rose, dark violet, light yellow, reddish bronze, etc.....10

**SCABIOSA (Mourning Bride).** The old and well-known *Sweet Scabious* is not as generally cultivated as it deserves. The perfectly double flowers are useful for cutting; they are gracefully borne upon long slender stems, well above the foliage.

- 311 **Tall German.** Mixed. All colors; height, two feet..... 5
- 312 **Dwarf, Double.** Mixed. Plants of compact habit, profusely bearing globe-shaped, double flowers of great beauty..... 5
- 313 **SALVIA (Flowering Sage).** Of all the *Salvias* the *Splendens* is the brightest and best, well worthy of cultivation..... 5
- 314 **SANVITALIA (Procumbens fl. pl.).** Dwarf creeping plant, with profusion of double, bright yellow flowers, compact and effective as border plants..... 5

**SCHIZANTHUS.** Half hardy annuals, one and one-half feet in height, literally covered with flowers.

- 315 **Papilionaceus (Butterfly Flower).** A charming variety, marked with violet, yellow, crimson, etc..... 5
- 316 **Mixed.** All colors..... 5

**SENSITIVE PLANT.** The Sensitive plant is very chaste and elegant in foliage, the leaves being delicately pinnated, while it bears attractive small pink flowers in globose heads. It affords much amusement by its sensitive character—even when slightly touched the leaves close and droop; easily grown.

- 317 **Mimosa Pudica (Sensitive Plant)**..... 5
- 318 **STEVIA SERRATA.** Produces a mass of tiny, star-shaped, pure white flowers. Most excellent for bouquets. The plants grow about eighteen inches high, stems branching freely and almost completely covered with the corymbs of flowers. Very pretty in beds, and almost unequaled for cutting to arrange in bouquets and vases with other flowers. Flowers freely the first season from seed..... 5

319 **Saponaria Calabrica.** Mixed. Dwarf continuous blooming annuals for beds and edgings, pink, white, etc., ½ feet..... 5

320 **SWEET SULTAN (Centaurea Suaveolens)** The Yellow Sweet Sultan produces its handsome brush-like, bright-yellow flowers in wonderful profusion; the flowers have long stems, keep well, and are very valuable as cut flowers, finding a ready sale..... 5

**SILENE (Catchfly)** Suitable for the open border or rock work. Hardy annuals.

- 321 **Armeria.** Different colors, fine mixed..... 5



STOCK, TEN WEEKS.

**STOCK, TEN=WEEKS.** All the varieties are desirable as pot-plants, as well as in open garden. They are greatly prized for cut flowers, on account of their fragrance and diversity of color. To have a continuous succession of bloom, sow at intervals from the beginning of March to the end of May.

PER PKT.

- 322 **NEW DWARF WHITE PYRAMID.** Of very dwarf growth, the little plants are each crowned with magnificent heads of beautifully-shaped, perfectly double flowers, of fine form and paper-white color. The strain is so high-bred that a remarkable percentage comes double. 2 pkts., 25c.....15
- 323 **NEW WHITE PERPETUAL (Cut and Come Again).** Of strong growth and fine branching habit, it grows to the height of one and a half feet, and if sown early will produce uninterruptedly a great abundance of bloom from June until November. The individual flowers are uncommonly large, of a fine, rosette-like shape, and the purest possible white. The flowers appear on each little shoot, and the oftener they are cut the better they seem to like it. 2 pkts., 25c.....15

- 324 **RED VICTORIA.** Each plant forms in itself a naturally-grown bouquet, of a beautiful pyramidal shape, the natural branches being symmetrically arranged around the main stem, which is slightly raised in the center, brilliant, double dark blood-red flowers.....15
- 325 **GIANT PERFECTION.** A splendid race, growing two and a-half feet high, with large spikes of perfectly double-flowers of great substance. Mixed.....10
- 326 **Dwarf-German Ten-Weeks.** Fine mixed. 5
- 327 **Large-flowering Dwarf.** Choice mixed.....10
- 328 **Mixed.** All colors and kinds..... 5
- 329 **TARGETES Lucida.** Even if it never bore its small, bright yellow flowers, this would be well worth growing for its delicate, fern-like foliage, of such powerful and delicious fragrance..... 5
- 330 **Patula nana (Cloth of Gold).** An attractive, dwarf-growing bedding plant, with very numerous golden-orange blossoms, delicate, fern-like foliage, useful in bouquets and of delicious fragrance.....10
- 331 **TRIFOLIUM Suaveolens (Sweet-scented Clover).** A great favorite in gardens on account of its delicately scented flowers, six inches high. Oz., 25c; ¼ lb., 75c; lb., \$2.50..... 5
- VERBENAS.** Verbenas flower very quickly from the seed and thrive much better than from cuttings.
- 332 **Hybrida.** Mixed. This seed, although so cheap, is really quite good, and embraces all colors. ¼ oz., 30c; oz., \$1.00..... 5
- 333 **VERBENA HYBRIDA.** Extra fine mixed. From a superb collection of named varieties. Very large in flower and corymbs, and of the richest and most brilliant colors as now perfected, this is superior to the Mammoth Verbena, and is one of the finest strains of Verbena hybrida in cultivation to-day. The seed has been saved not only from a large collection of many bright and pleasing self-colors, but also from the finest varieties of the auricula-eyed type. 2 pkts., 25c; ¼ oz., 75c; oz., \$2.50.....15
- 334 **Italian Striped.** Very showy striped flowers of many bright colors. ¼ oz., 75c.....10
- 335 **Scarlet Defiance.** True, brightest scarlet, Intensely rich. ¼ oz., \$1.00.....10
- VIOLAS, or SWEET VIOLET.** Extremely popular in Europe for bedding Violas or Tufted Pansies should be more generally used in America. Sow the seed in May, and when in flower in August or September, transplant into well-enriched beds, assorting as to color or arranging in any design desired. Soon after the snow is off the following Spring they will begin to bloom, and throughout the Spring and early Summer will give a profusion of flowers.
- 336 **Admiration.** Deep violet.....10
- 337 **Cornuta alba.** Pure white.....10
- 338 **Perfection.** Fine, light blue.....10
- 339 **Purple Queen.** Rich, deep purple.....10
- 340 **Finest mixed.** All the above colors. ¼ oz., 50c.....10

PER PKT.

- VINCA** (*Madagascar Periwinkle*). Splendid house and bedding plant, eighteen inches high, with glossy green leaves and circular flower. PER PKT.
- 341 **Rosea**. Fine rose color.....10
- 342 **Rosea alba**. White rosy eye.....10
- 343 **Alba pura**. Clear, pure white.....10
- 344 **Mixed**. The above three varieties..... 5
- VISCARIA** (*Rose of Heaven*). Adapted either for beds, edgings or clumps, their profuseness of bloom will always rank them among general favorites. Hardy annuals.
- 345 **Fine Mixed**. One foot..... 5

- ZINNIAS**. No flowers are more easily grown from seed sown in the open ground, and few bloom so continuously throughout the entire Summer. Those acquainted only with the old-time Zinnias will be surprised at the perfection to which the newer strains have attained.
- 346 **Choice, Double**. Mixed. All colors..... 5
- 347 **Superb, Double**. Mixed. Perfectly double flowers, of grand form, large size, brilliant colors..... 5
- 348 **Mexicana**. Small, single, yellow flowers.... 5

- 349 **Tenuiflora**. Of dwarf habit, a good grower, succeeding everywhere, and desirable as a border plant. Sown where they are to bloom, in rows, they make a striking effect, the plants bear upright, small, single, dark carmine flowers in profusion.. 5
- 350 **Haageana fl. pl.** Of elegant habit, making a circular bush of two and one-half feet in diameter and only eighteen inches high, almost entirely covered with small, perfectly double flowers of an intensely rich, orange yellow color; fine for cutting..... 5

**MIXTURE**. The following mixture is carefully prepared from choice fresh seeds and cannot fail to give satisfaction. The packets are liberally filled, and in no other manner can so many seeds be obtained for such light cost.

- 351 **WILD FLOWER GARDEN MIXTURE**. These mixed flower seeds embrace more than a hundred varieties of such easy-growing and pretty flowers as are suitable for forming a wild-flower garden. They are very useful for woodland walks, roadsides, railroad embankments, and for sowing alongside of fences and on any untidy, bare spots of ground which are so frequently unsightly and which, if properly cared for and kept free from weeds, can be made to produce a continual display of bloom during the Summer. Oz., 25c.....10

## SEEDS OF ANNUAL CLIMBERS.

In the flower garden and for the adornment of rural homes, no class of flowers is more useful than these. Many a trellis, fence, tree-stump or veranda, otherwise unattractive, can be rendered beautiful by planting seed of rapid-growing Climbers. We recommend a liberal use of seeds of a number of varieties. By a careful reading of the following list a judicious selection can easily be made.

☞ On all orders for **SEEDS IN PACKAGES** the purchaser is entitled to select **25 Cents WORTH EXTRA** for each **ONE DOLLAR** sent us for *Seeds in Packets*. ☞

- 360 **BALLOON VINE** (*Cardiospermum*). The Balloon or *Love-in-a-Puff*, is of rapid growth, with pretty foliage and inflated capsules..... 5
- 361 **CANARY BIRD FLOWER**. This is one of the most beautiful of Climbers, with handsomely fringed, rich yellow flowers and delicate foliage..... 5
- 362 **COBEA Scandens**. This is one of the most beautiful climbing annuals, and is very easily grown. It has elegant, graceful flowers, of large size, resembling foxgloves in shape, and of a rich rosy-purple color. The foliage is also extremely beautiful, of velvety texture.....10
- CYPRESS VINE**. One of the most elegant vines, delicate fern-like foliage, and beautiful star-shaped flowers.
- 363 **Scarlet**. Intensely rich scarlet..... 5
- 364 **White**. Purest paper-white..... 5

- 365 **Mixed**. Both scarlet and white. Oz., 25c... 5
- 366 **Scarlet, Ivy-leaved**. Deeply lobed, ivy-like leaves, with fork-like racemes of countless fiery orange-scarlet flowers. Oz., 25c..... 5
- CONVOLVULUS** (*Morning Glory*). Seed of the well-known Morning Glory is so cheap, the flowers so bright, and the vines of such rapid growth, that it should be largely planted to cover unsightly houses.
- 367 **Striped**. Large, handsome flowers of great beauty. On a white ground they are variously striped and blotched with red, blue and rose..... 5
- 368 **Fine Mixed**. Embracing a great variety of colors. Oz., 10c..... 5
- DOLICHOS** (*Hyacinth Bean*). Of very rapid growth, the old Haycinth Bean makes a very dense and attractive screen.
- 369 **Lablab**. Purple and white mixed..... 5

Order all Flower Seeds by the Numbers, it is not necessary to give Names.

If you don't see what you want in this Catalogue, write us. We handle all Seeds known to the Trade.

# Seeds of Annual Climbers—Continued.



HUMULUS JAPONICUS, OR JAPANESE HOP.

- PER PKT.  
**370 HUMULUS Japonicus** (*Japanese Hop*). A very ornamental and extremely fast growing Climber. While the foliage resembles in shape that of the common hop it has more incisions, is very dense, and of a lively green; the stems and leaves are somewhat rough and hairy. The principal and most valuable feature of this new climbing plant is that it can be sown in the open ground in Spring, and that it attains enormous dimensions very quickly.....10
- IPOMŒA.** Rapid-growing, tender annuals, with ornamental foliage and most beautiful varied colored flowers. Valuable Climbers for the garden and as easily grown as the Morning Glory.
- 371 Bona Nox** (*Good Night, or Evening Glory*). Most beautiful large flowers..... 5

- MAURANDYA.** Charming Climbers, elegant alike in foliage, and from their graceful growth are well suited for hanging baskets, vases and light trellis. PER PKT.
- 372 Barclayana.** Rich violet blue; ten feet.....10
- 373 Finest Mixed.** Blue, white and mauve..... 5
- 374 THE MOON FLOWER, the Original Variety.** This variety makes an immense growth of vine and dense foliage, but must be started early to flower in the North. The large flowers are some a beautiful blue and others pure white in color. Even when it does not bloom it is one of the handsomest vines in cultivation, on account of its quick-growing and dense foliage, which is not torn by wind or rain. The leaves are of a bright, glossy-green color, uniformly heart-shaped.....10
- 375 MINA LOBATA.** The flowers appear on fork-like racemes, rising almost erect out of the dense and luxuriant foliage; they are as buds, at first bright red, but change through orange-yellow to yellowish-white when in full bloom. It is a very rapid-growing climber, forming pyramids of over eighteen feet in height.....15
- 376 MOMORDICA Balsamima** (*Balsam Apple*). A very beautiful climbing plant, with handsome apple-shaped fruits..... 5
- 377 Charantia.** (*Balsam Pear*). Rapid-growing climber with very beautiful fruits, of a rich golden yellow color, which, when ripe, open, disclosing the seeds encased in a carmine covering. The fruits, preserved in alcohol, make a most useful liniment. Oz., 50c..... 5
- NASTURTIIUM.** The *Tropæolum Majus*, or Tall Nasturtiums, are among the easiest grown and prettiest and thrive on poor soil. Free-bloomers, and the green seed-pods make excellent pickles.
- 378 Majus, Finest Mixed Tall Nasturtium.** Many bright colors. Oz., 15c..... 5
- 379 TROPÆOLUM Lobbianum**..... 5
- ORNAMENTAL GOURDS.** A large and interesting class, producing a great variety of curious fruits, many of which are peculiarly marked. All the fruits are hard-shelled, and will keep for years, exciting much attention.
- 380 Mixed**..... 5
- THUNBERGIA.** Very elegant, slender-growing Climbers, rapidly covering wire trellises, and also useful for vases in the garden or house. The colors are pure white, light yellow, and deep orange, and of each color there is a variety with white eye and also with black eye—the latter often called "*Black Eyed Susan*." They continue in flower all Summer.
- 381 Mixed.** Six varieties..... 5

**REMEMBER.**—On all Orders for Seeds in Packets (whether Vegetable, Farm or Flower Seeds), the purchaser may select **twenty-five cents' worth extra for each One Dollar sent us.** Thus any one sending us \$1.00, can select seeds in packets amounting to \$1.25; for \$2.00, seeds in packets to the value of \$2.50; for \$3.00, to the value of \$3.75, and so on. This discount applies **only to seeds in packets, purchaser's selection,** and does not apply to seeds by weight or measure.

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## SWEET PEAS.

(LATHYRUS ODORATUS).

The Sweet Pea has become one of the most popular of cultivated flowers, and admired not only in the largest and best "places," but in the humblest garden. Not only do they readily adapt themselves to circumstances, giving some bloom no matter how unfavorable the conditions, but repay better care and culture, with a proportionate abundance of bloom. Everyone who cultivates flowers should plant Sweet Peas, for the list of distinct and beautiful varieties is now so large that no one will ever tire of them.



SWEET PEAS.

planting. As fast as the flowers come into full bloom they should be cut, for if the pods are allowed to form, the plants will soon stop flowering.

Our list of Sweet Peas includes all of the best varieties, both old and new.

- |   |  |
|---|--|
| 1 <b>ADONIS.</b> Carmine Rose. Pkt., 5c; oz., 10c; lb., 75c.                                | 13 <b>DUKE OF CLARENCE.</b> Rosy claret, self-colored flower. Pkt., 5c; oz., 10c; lb., 75c.    |
| 2 <b>APPLE BLOSSOM.</b> Bright pink and blush. Pkt., 5c; oz., 10c; lb., 90c.                | 14 <b>EMILY HENDERSON.</b> White. Pkt., 5c; oz., 15c; lb., \$1.25.                             |
| 3 <b>BLANCHE FERRY.</b> White petals, red standard. Pkt., 5c; oz., 10c; lb., 75c.           | 15 <b>EMILY ECKFORD.</b> Porcelain, suffused with reddish mauve. Pkt., 5c; oz., 10c; lb., 75c. |
| 4 <b>BOREATON.</b> Dark brown wine color. Pkt., 5c; oz., 10c; lb., 75c.                     | 16 <b>EMPRESS OF INDIA.</b> Rosy pink standards, white wings. Pkt., 5c; oz., 10c; lb., 75c.    |
| 5 <b>BLUSHING BEAUTY.</b> Soft pink, suffused with lilac. Pkt., 5c; oz., 15c; lb., \$1.25.  | 17 <b>FAIRY QUEEN.</b> White, flushed and feathered with pink. Pkt., 5c; oz., 10c; lb., 90c.   |
| 6 <b>BUTTERFLY.</b> Pale gray, with distinct porcelain edge. Pkt., 5c; oz., 10c; lb., 75c.  | 18 <b>ISA ECKFORD.</b> Creamery white and rosy pink. Pkt., 5c; oz., 10c; lb., 90c.             |
| 7 <b>CARDINAL.</b> Crimson scarlet. Pkt., 5c; oz., 10c; lb., 75c.                           | 19 <b>INDIGO KING.</b> Very dark purple and indigo. Pkt., 5c; oz., 10c; lb., 75c.              |
| 8 <b>CARMINE INVINCIBLE.</b> Brightest crimson. Pkt., 5c; oz., 10c; lb., 75c.               | 20 <b>IMPERIAL BLUE.</b> Bright blue, rather dark. Pkt., 5c; oz., 10c; lb., 75c.               |
| 9 <b>COUNTESS OF RADNOR.</b> Delicate lavender. Pkt., 5c; oz., 10c; lb., 90c.               | 21 <b>LOTTIE ECKFORD.</b> Rose and white, edged with blue. Pkt., 5c; oz., 10c; lb., 90c.       |
| 10 <b>CROWN PRINCESS OF PRUSSIA.</b> Blush Pink. Pkt., 5c; oz., 10c; lb., 75c.              | 22 <b>LEMON QUEEN.</b> Blush pink and lemon. Pkt., 5c; oz., 10c; lb., 75c.                     |
| 11 <b>DELIGHT.</b> White, crested with crimson. Pkt., 5c; oz., 10c; lb., 75c.               | 23 <b>MRS. ECKFORD.</b> White, delicately shaded with primrose. Pkt., 5c; oz., 10c; lb., 75c.  |
| 12 <b>DUCHESS OF EDINBURG.</b> Scarlet, flushed with crimson. Pkt., 5c; oz., 10c; lb., 75c. | 24 <b>MISS HUNT.</b> Carmine, salmon and soft pink. Pkt., 5c; oz., 10c; lb., 75c.              |

Prices on large quantities, on application. The forty-seven kinds for \$2.00.

## SWEET PEAS—Continued.

- 25 **MRS. GLADSTONE.** Delicate soft pink, with rosy blush wings. Pkt., 5c; oz., 10c; lb., 75c.
- 26 **MRS. SANKEY.** The purest white, the most perfect form, the largest size, a profuse bloomer and unsurpassed for florist's use. Pkt., 5c; oz., 15c; lb., \$1.25.
- 27 **MONARCH.** Dark maroon. Pkt., 5c; oz., 10c; lb., 75c.
- 28 **MIXED.** All colors, light and dark. Pkt., 5c; oz., 10c; lb., 75c.
- 29 **ORANGE PRINCE.** Orange pink, flushed with scarlet. Pkt., 5c., oz., 10c; lb., 75c.
- 30 **PAINTED LADY.** Rosy crimson and blush white. Pkt., 5c; oz., 10c; lb., 75c.
- 31 **PRINCESS BEATRICE.** Delicate plush pink, marked with deeper shades. Pkt., 5c; oz., 10c; lb., 75c.
- 32 **PRINCESS OF WALES.** White, striped with lavender and mauve. Pkt., 5c; oz., 10c; lb., 75c.
- 33 **PRINCESS LOUISE.** Rosy pink standards, wings deep lilac. Pkt., 5c; oz., 10c; lb., 90c.
- 34 **PURPLE PRINCE.** Maroon, shaded with bronze purple, wings blue. Pkt., 5c; oz., 10c; lb., 90c.
- 35 **PURPLE STRIPED.** Pkt., 5c; oz., 10c; lb., 75c.
- 36 **PRIMROSE.** Pale primrose yellow. Novel and distinct. Pkt., 5c; oz., 10c; lb., 75c.
- 37 **QUEEN OF ENGLAND.** White; of large size. Pkt., 5c; oz., 10c; lb., 75c.
- 38 **QUEEN OF THE ISLE.** Rose and scarlet, mottled with purple and white. Pkt., 5c; oz., 10c; lb., 75c.
- 39 **RED STRIPED.** Pkt., 5c; oz., 10c; lb., 75c.
- 40 **ROSE AND WHITE.** Pkt., 5c; oz., 10c; lb., 75c.
- 41 **SENATOR.** Chocolate, creamy white. Pkt., 5c; oz., 10c; lb., 90c.
- 42 **SPLENDOR.** Coppery crimson suffused with rosy pink; very rich. Pkt., 5c; oz., 10c; lb., 90c.
- 43 **SCARLET INVINCIBLE.** Scarlet striped. Pkt., 5c; oz., 10c; lb., 75c.
- 44 **THE QUEEN.** Bright pink, shaded with heliotrope. Pkt., 5c; oz., 10c; lb., 75c.
- 45 **VESUVIUS.** Carmine rose, shaded to a velvety violet. Pkt., 5c; oz., 10c; lb., 75c.
- 46 **VIOLET.** Pkt., 5c; oz., 10c; lb., 75c.
- 47 **WHITE.** Pkt., 5c; oz., 10c; lb., 75c.

## EVERLASTING FLOWERS.

The Everlasting Flowers, with their rich, brilliant colors, are very valuable for Winter decoration. They should be cut as soon as they come into full bloom, tied into small bunches, and dried slowly in the shade, with the heads downward, to keep the stems straight.

- |  | PER PKT. |  | PER PKT. |
|--|----------|--|----------|
| 393 <b>ARCOLINIUM.</b> Mixed. Rose and white.....  | 5        | 400 <b>Golden Ball.</b> Rich, golden yellow.....   | 10       |
| 394 <b>AMMOBIUM.</b> Small white flowers, pretty.....  | 5        | 401 <b>Dwarf.</b> Mixed.....   | 5        |
| 395 <b>AGOMPHREN</b> ( <i>Globe Amaranth or Bachelor's Button</i> ). Mixed. Small, globe-shaped, double flowers of perfect form and bright colors..... | 5        | 402 <b>RHODANTHE Manglesii.</b> Graceful.....  | 5        |
| 396 <b>Nana compacta.</b> Of very compact, dwarf habit, double flowers of a deep violet-red....  | 10       | 403 <b>XERANTEMUM.</b> Mixed. Double flowers.....  | 5        |
| 397 <b>HELIPTERUM Sanfordi.</b> Small, yellow flowers.....   | 5        | 404 <b>Superbissimum fl. pl.</b> Purple, pompon-flowering; fine.....   | 10       |
| <b>HELICHRYSUM.</b> Fine, large, double flowers of most brilliant colors, often called <i>The Eternal Flower</i> .                                     |          | 405 <b>Superbissimum album fl. pl.</b> A new white.....  | 10       |
| 398 <b>Fireball.</b> Flowers of the richest crimson....  | 10       | 406 <b>MIXED EVERLASTING.</b> A single packet will give in abundance a great variety of the most attractive Everlasting Flowers. No more welcome present can be given a visitor when looking through the flower garden than a bouquet of these imperishable flowers. Three pkts., 25c..... | 10       |
| 399 <b>Snowball.</b> Large, double, pure white.....  | 10       |  |          |

## ORNAMENTAL GRASSES.

If our customers could see the wonderful variety and graceful forms of the Ornamental Grasses, they would be induced to use them much more largely, particularly when it is considered how indispensable they are in the arrangement of graceful bouquets.

- |  | PER PKT. |  | PER PKT. |
|--|----------|--|----------|
| 407 <b>Agrostis nebulosa.</b> Fine and feathery, elegant.....  | 5        | 415 <b>Eulalia Japonica zebrina</b> ( <i>Zebra Grass</i> ). Grows five to six feet high, with stripings across the leaves..... | 15       |
| 408 <b>Avena sterilis</b> ( <i>Animated Oat</i> ). 2½ feet....   | 5        | 416 <b>Gynerium argenteum</b> ( <i>Pampas Grass</i> ). Flowers the second season; requires protection.....                     | 10       |
| 409 <b>Briza gracilis.</b> Small, graceful racemes....   | 5        | 417 <b>Hordeum jubatum</b> ( <i>Squirrel-tail Grass</i> ). Fine.....   | 5        |
| 410 <b>Briza maxima</b> ( <i>Quaking Grass</i> ). Large racemes of beautiful rattles, very ornamental..... | 5        | 418 <b>Lagurus ovatus</b> ( <i>Hare's-tail Grass</i> ).....  | 5        |
| 411 <b>Bromus brizæformis.</b> Drooping panicles, beautiful.....   | 5        | 419 <b>Pennisetum Longistylum.</b> Soft, fuzzy flower heads, extremely graceful in appearance.....                             | 10       |
| 412 <b>Chrysurus cynosuroides.</b> Dwarf, with yellowish, feathery spikes, useful in bouquets.....         | 5        | 420 <b>Stipa pennata</b> ( <i>Feather Grass</i> ). Perennial.....  | 10       |
| 413 <b>Coix lachryma</b> ( <i>Job's Tears</i> ).....   | 5        | 421 <b>Trycholæna rosea.</b> Perennial, but flowers the first season, most beautiful rose-tinted grass.....                    | 5        |
| 414 <b>Erianthus Ravannæ.</b> As fine as Pampas Grass.....   | 5        |  |          |



## SEEDS OF PERENNIAL FLOWERS.

In the following list we describe Biennials and Perennials which live in the garden over Winter, and flower in the Spring and Summer of the following year. While they do not reward the planter so quickly as do Annuals, yet they are well worth waiting for—as they embrace some of the most beautiful flowers—and many of them, with scarcely any care, continue to give a fine display of bloom year after year.

	PER PKT.		PER PKT.
422 <b>ALYSSUM</b> ( <i>Gold Dust</i> ). Saxatile, small, golden-yellow flowers.....	5	439 <b>Choice mixed</b> . Best varieties.....	5
423 <b>AQUILEGIA</b> ( <i>Columbine</i> ). Choice double, mixed. Beautiful and varied colors.....	5	440 <b>Scotcus, fl. pl.</b> ( <i>Paisley or Florists' Pink</i> ). A very pretty double variety of the preceding.....	5
424 <b>Skinneri</b> . Flowers vivid scarlet, tipped with yellow. About 80 per cent come true from seed.....	10	441 <b>DIGITALIS</b> ( <i>Foxglove</i> ). Fine mixed. Long racemes of beautifully spotted flowers.....	5
425 <b>ARISTOLOCHIA Siph.</b> ( <i>Dutchman's Pipe</i> ). A beautiful, hardy, climbing plant; large, luxuriant foliage with brownish-yellow, heart-shaped leaves and siphon-shaped, rich purple flowers.....	10	442 <b>HOLLYHOCKS</b> . For majestic growth and massive beauty the Hollyhock stands unrivaled. Flowers very large, perfectly double, and of great variety of color.....	5
426 <b>ASPERULA</b> ( <i>Woodruff</i> ) <i>Odorata</i> . Found in the dry woods of Great Britain, and much prized everywhere. The flowers are white and fragrant.....	10	443 <b>Double</b> . Fine mixed. Fine double flowers..	5
<b>CAMPANULA</b> ( <i>Canterbury Bells</i> ). Popular perennials producing bell-shaped flowers of many different colors.		444 <b>Superb Double</b> . Mixed. Of all the brightest and best colors. The perfect doubleness of the magnificent large flowers will please the most critical.....	10
427 <b>Single Varieties</b> . Mixed. Various colors....	5	445 <b>HONESTY</b> ( <i>Lunaria</i> ). Purple racemes of pretty flowers, which form curious, silvery seed pouches.....	10
428 <b>Double Varieties</b> . Mixed.....	5	446 <b>HUMEA Elegans</b> . Grows six to eight feet, producing long, flowing racemes of ruby-red flowers.....	15
429 <b>CHRYSANTHEMUM, New Fancy Perennial Varieties</b> . It is not generally known that these are quite easily raised from seed, and that seed sown in the Spring will produce strong plants that will flower freely in the Autumn.....	20	447 <b>IRIS Kämpferi</b> ( <i>Japan Iris</i> ). A perfectly hardy, bulbous plant, with large, showy flowers, pure white and of many shades of blue and purple.....	10
<b>CARNATIONS AND PICOTEES</b> .		448 <b>LILY OF THE VALLEY</b> ( <i>Convallaria</i> )....	10
Large, beautiful and very fragrant flowers, as perfect in form as the rose. Seeds sown in open ground in May or June will flower splendidly the next season. They are nearly everywhere hardy, but in very cold situations should be protected by straw or a few boughs.		<b>LATHYRUS</b> ( <i>Perennial Peas</i> ). These Perennial Peas, while lacking the delicious fragrance of the Sweet Peas, are equally as beautiful, and are very valuable from the fact that they are in full bloom early in the Spring, before the others have begun to flower. They live year after year, bearing magnificent clusters of flowers. Perfectly hardy, and grow eight to ten feet high.	
430 <b>German</b> . Extra fine, double, mixed. First quality, from choicest flowers.....	15	449 <b>Purple</b> . Clusters of purple flowers.....	5
431 <b>Choice, Double</b> . Mixed. Very good.....	10	450 <b>White</b> . Clusters of the purest white flowers.....	10
432 <b>Red Grenadin</b> . From 60 to 70 per cent. produce charming double flowers of a brilliant scarlet.....	15	451 <b>Mixed</b> . Easily grown, flowers purple and white.....	5
433 <b>MARGUERITE</b> . These superb new dwarf Carnations have created a great sensation, not only by reason of their fine, double, fragrant flowers, but also because they can be treated as annuals. They flower freely the first season from seeds sown in the open ground.....	10	452 <b>PÆONY</b> . A well-known, hardy, herbaceous plant, with large, double flowers of various shades of rose, crimson, and white..	15
434 <b>Picotee</b> . Fine, double, mixed. A good strain of double Picotees; edges of petals bordered.....	15	453 <b>PAPAVER</b> ( <i>Perennial Poppies</i> ). Choicest mixed. The single perennial Poppies are perfectly hardy and are very attractive among shrubbery.....	5
435 <b>Fancy Picotee</b> . Extra fine, mixed. A superb strain from the finest collection of named varieties.....	25	454 <b>Orientele</b> . The darkest red; magnificent....	10
436 <b>DELPHINIUM</b> ( <i>Perennial Larkspur</i> ).....	5	455 <b>PHLOX, Perennial</b> . Choicest mixed. Embracing the newest and best varieties. Clumps of these are gorgeous with brilliant flowers. The fresh seed must be sown in the Fall.....	10
437 <b>Formosum</b> (true). Brilliant blue, white eye. 5		456 <b>PRIMULA Auricula</b> . Fine mixed.....	15
438 <b>DIANTHUS</b> ( <i>Perennial Pinks</i> ). <i>Plumarius</i> ( <i>Pheasant Eye Pink</i> ). The original clove pink.....	10	457 <b>Elatior polyanthus</b> . Choice mixed.....	10
		458 <b>Vulgaris</b> . The common wild English Primrose.....	10
		459 <b>PYRETHRUM Parthenium fl. pl.</b> The double Feverfew.....	10

Try Our Collection of Sweet Peas. Forty-seven Kinds for \$2.00.

- PER PKT.
- 460 **Parthenifolium aureum** (*Golden Feather*).....10
- 461 **Roseum** (*Insect Powder Plant*). A fine, hardy plant, with large red, daisy-like flowers. Persian Insect Powder or Bubbach is made of the dried and powdered flowers. Oz., 50c.....10
- 462 **ROCKET**. Sweet, mixed. White and purple. 5
- STOCKS**. The Emperor stock frequently lives for several years if protected from frost, the Brompton is a biennial, of branching habit and a profuse bloomer.
- 463 **Emperor or Perpetual**. Fine mixed.....10
- 464 **Brompton or Winter**. Fine mixed.....10



SWEET WILLIAM.

- PER PKT.
- SWEET WILLIAM**. As now improved they make matchless border plants, with heads of bloom of great size and wonderful beauty, should be in every garden, height one and one-half feet.
- 465 **Single**. Mixed. A splendid strain, flowers of many bright colors, large size, and varied markings, including the finest auricula-eyed varieties..... 5
- 466 **Dunetts**. Beautiful, rich crimson..... 5
- 467 **Double**. Mixed. Fine double flowers, which, however, to our fancy, are not so beautiful as the single..... 5
- 468 **TRITOMA Uvaria Grandiflora** (*Red-hot Poker Plant*). A most gorgeous plant, grown either singly or in masses, brilliant flowers, spike nearly a foot in length, golden-yellow to dazzling scarlet.....10
- VIOLA** (*Violet*). The popular Sweet Violet flowers very early in the Spring, but the seed often requires many months to germinate.
- 469 **Odorata** (*Sweet Violet*). Blue.....10
- 470 **WALLFLOWER** *Fine German, Double*. Mixed. Spikes of deliciously fragrant double flowers, combining many shades of color, chocolate and orange purple predominating. Sow early in hot-bed and prick out the small plants into pots, sink the pots in the earth and in Autumn remove to the house, where they will bloom all Winter.....10
- 471 **Single**. Mixed.....

## Seeds for Greenhouse and Window Culture.

The growth of rare plants from seed is very interesting, and many of the choicest varieties can readily be grown in the house by those who are willing to give them careful attention. For Winter blooming, the seed should be sown in shallow boxes any time during the Spring or Summer. Procure a mellow soil, almost one-fourth sand; sow the seeds on the surface, covering lightly with a little fine, sandy earth; cover the box with a pane of glass, keep darkened, and keep the soil slightly moist until the seeds germinate, when light and air should be admitted by partially or wholly removing the glass, and placing the boxes in a warm, sunny window. When the plants are large enough to handle they should be potted singly into small pots, and afterward removed to six-inch pots for flowering; to insure an abundance of fine bloom in Winter, they should be kept growing vigorously during Summer and Fall, in good rich soil. Florists can rely upon our seed of Begonias, Calceolaria, Cineraria, Gloxinias and Primulas.

 In **Greenhouse** as well as all other **SEEDS IN PACKETS** the purchaser is entitled to select **25 Cents WORTH EXTRA** for each **ONE DOLLAR** sent us for *Seeds in Packets.*

- PER PKT.
- 472 **AGAPANTHUS Umbellata** (*Blue Lily of the Nile*). This is a splendid ornamental plant, bearing large clusters of bright blue flowers on long flower stalks and lasting a long time in bloom. There is no finer plant than this for out-door decoration, planted in large pots or tubs on the lawn, terrace or piazza. It does well in the house or greenhouse in Winter, requiring but slight protection. It is a rapid grower, and increases in size and beauty every year; the chief point in its cultivation is to divide the plants before the pots or tubs become overcrowded with roots. With the most ordinary kind of care it is a plant that will last for ever..... 10
- ASPAGUS, Plumrosus**. A greenhouse climber, with exquisitely graceful and feathery lace-like foliage; extensively grown by florists for cutting purposes.....25

- BEGONIA, Tuberos-rooted hybrids**. These charming and showy Begonias, with their orchid-like flowers and rich tropical foliage, can be raised planted in light, moderately rich soil, with a liberal mixture of sand. Seedlings raised from sowings made early in the year will bloom freely in the course of the Summer, but not so freely as those of greater age. PER PKT.
- 473 **Tuberos-rooted Begonias, Extra**. Fine mixed seed of single varieties.....25
- 474 **CALCEOLARIA Hybrida**. Splendid mixed. One of the most beautiful of house plants, bearing hundreds of showy, pocket-like flowers of various colors, including handsomely spotted and tigered.....25

**BEAUTIFY YOUR HOME WITH FLOWERS.**

- PER PKT.
- 475 **Finest Double-flowering Begonias**.....35
- 476 **CENTAUREA Gymnocarpa**. White foliage.10
- 477 **Candidissima**. White leaved; beautiful.....15
- 478 **CHRYSANTHEMUM Indicum**. Finest double.....15
- 479 **CHRYSANTHEMUM Frutescens**. The well-known *Paris Daisy*, produces large, white, star-like flowers most profusely.....15
- CINERARIA**. The Cineraria is one of the brightest and best of house plants, blooming most profusely during the late Winter and early Spring. When in full flower the plants present a gorgeous sight, being each covered with one mass of bloom of richest colors — crimson, magenta, violet, blue, and variegated. Seeds should be sown from May to August, when they will bloom the first Winter. Keep the plants in a cool, shady place during the Summer.
- 480 **Hybrida**. Fine mixed. All colors.....15
- 481 **Hybrida**. Large flowering. Finest mixed. Flowers measuring two inches across, of rich colors.....25
- 482 **COLEUS**. Fine mixed. Leaves of all shapes, shades and colors, mostly having a velvety appearance.....15



CYCLAMEN PERSICUM.

- CYCLAMEN Persicum**. Most charming bulbous-rooted plants, with beautiful foliage, variegated in different shades of green, and richly colored orchid-like flowers. They are universal favorites as pot plants for Winter and Spring blooming. If the seed is sown early, in sandy loam, they make flowering bulbs in one season. After flowering, the bulbs should be allowed to rest in a dry state over Summer.
- 483 **Persicum**. Splendid mixed. All colors.....15
- 484 **FUCHSIAS, Double and Single**. Mixed. It is not generally known that Fuchsias can be raised very easily from seed, and will flower freely the first year in the open ground, while the plants can be taken in the house in the Winter, where they will flower still more freely. We offer the very finest mixture of double and single Fuchsias, saved from splendid varieties.....25

- PER PKT.
- 485 **FERNS**. Mixed, embracing seeds (spores) of many desirable varieties of these graceful plants.....25
- GERANIUMS**. These favorite plants are easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house will bloom the first Summer in the garden.
- 486 **Zonale**. Mixed.....10
- 487 **Zonale**. Choice mixed. Saved from the best varieties of single Geraniums.....15
- 488 **Fancy mixed Pelargoniums** (*Lady Washington Geraniums*). Very choice and rare varieties.....25
- 489 **Finest Double**. Produces a good percentage of fine double flowers. Packet of twenty-five seeds.....50
- 490 **Apple Scented**. This favorite, with sweet-scented leaves can best be grown from seed; sow in light soil and keep moist until they germinate.....25
- GLOXINIAS**. A splendid class of house-blooming bulbous-rooted plants, flowering in great profusion during the Summer months. The handsome bell-shaped flowers embrace a great variety of the richest and most beautiful colors; the bulbs must be kept warm and dry during the Winter.
- 491 **Large Flowering Hybrids**. Mixed. From a grand collection, comprising the most superb spotted and blotched.....25
- 492 **LANTANA**. Finest mixed. Well-known shrubby plants, with clusters of Verbena-like flowers; make a grand display the first season. Large bushes of these in full flower all Summer were much admired and visitors expressed surprise that so fine a display could be obtained from spring-sown seed.....10
- 493 **LEMON VERBENA**. The delightfully fragrant foliage of this favorite plant makes it very desirable for cutting; it is easily grown from seed.....10
- 494 **LINARIA Cymbalaria** (*Kenilworth Ivy*). The very pretty trailing species for covering rockwork, stumps, and for vases and hanging baskets.....25
- 495 **MUSA ENSETTE** (*The Abyssinian Banana Tree*). Strikingly effective as single specimens upon the lawn as well as in clumps or masses. The rapidity of its growth is astonishing, if the seed is sown early in hot-beds and repotted several times, the plants will attain the height of eight feet the first Summer. They can be stored in a cellar during the Winter with a covering of soil, or planted in a tub, watered sparingly, and will attain gigantic proportions the second season. The leaves are magnificently long, broad and massive, of a beautiful bright green. Packet of five seeds.....25
- 496 **PASSIFLORA Cœrulea** (*Passion Flower*).....10

Order Flower Seeds by NUMBER, the name is not necessary.

Food for Flowers is a cheap and effective food for all house or garden plants. Package by mail 40c., post-paid.



CHINESE PRIMROSE.

**Primula Sinensis Fimbriata.**

**FRINGED CHINESE PRIMROSE.** The *Chinese Primrose* is the most beautiful and satisfactory

of all house plants for Winter blooming, and it is as easily grown as a geranium. It is never attacked by insects, and will even thrive in a window where there is but little sun, and where few other plants would bloom. Seeds sown from April to July will produce plants that will flower most profusely throughout the following Winter.

PER PKT.

- 498 **PRIMULA, Alba Magnifica.** Flowers, borne in large trusses well above the foliage, are pure white, with large, bright, yellow eye. 25
- 499 **Splendid mixed,** large flowering. A grand mixture, embracing the above and many other finest fringed, large flowering varieties ..... 20
- 500 **SMILAX (Myrsiphyllum Asparagoides.)** The popular *Boston Smilax* is the most desirable window vine on account of its charming, glossy green, elegant and graceful foliage, while for florists' use it is as essential as roses. Oz., 75c; ½ oz., 40c... 10
- VINCA.** Handsome, bushy plants, producing freely round single flowers one and one-half inches across, suitable for pot culture and sunny flower beds; tender perennial, one and one-half feet.
- 501 **Rosea.** Bright rose..... 10
- 502 **Rosea alba.** White, with rose eye..... 10
- 503 **Alba pura.** Pure white ..... 10
- 504 **Mixed.** Above varieties..... 5

Florists will do well to get our special prices before buying elsewhere.

## SUMMER FLOWERING BULBS.

The Summer-flowering Bulbs for Spring planting contained in the following list are *inexpensive, very easily grown* and produce some of the most showy and beautiful of all Summer and Autumn flowers. There are but few flowers that can compare with the noble and brilliant spikes of the Gladiolus, the grace and elegance of the Lily, the purity and sweetness of the Tuberose, the majestic foliage of the Caladium, or the wonderful markings of the Tigridia. They require scarcely any care, and quickly make a gorgeous display, while the bulbs can be kept over Winter, and will, year after year, continue to return a hundred fold (in beauty and satisfaction) the trifling expense of the original cost. I have priced these Bulbs very low, to bring them within the reach of all. They are in splendid condition, fine, large Bulbs, properly stored, and will be sent securely packed in the same parcels with flower or vegetable seeds. My prices are for choice Bulbs, **post-paid, by mail,** to any address in the United States.

**AMARYLLIS.** Beautiful flowering bulbs, which should find a place in every garden. They force readily, and by proper care can be had in bloom during the whole year.

**Formosissima (Jacobæan Lily.)** Crimson, blooming early in the Summer. The flowers have a most graceful appearance. 30c each; \$3.00 per doz.

**Johnsoni.** Very large flower of a rich crimson scarlet color, striped with white. 75c each; \$7.00 per doz.

**Hybrids of Vittata.** White ground, striped with red. 75c each.

**Hybrids of Vittata.** Red ground, striped with white. 75c each.

**AMORPHOPHALLUS RIVIERI.** A remarkably distinct and pretty Aroid of easy culture, especially adapted for sub-tropical bedding or for the mixed border, producing a solitary Palm-like leaf on a tall stout stem which is curiously spotted and speckled with rose and olive green. The flower is similar in shape to the Calla Lily,

the outside being of a similar color to the leaf stem; the inside is deep blood-red, veined with black.

First size, strong tubers, 50c each; \$5.50 per doz.  
Second size, strong tubers, 30c each; \$3.00 per doz.

### CINNAMON VINE.

**Dioscorea batatas.** Beautiful Summer climber; glossy foliage and fragrant flowers; stem dies down in Winter, but the root is hardy. Large roots, 5c each; 50c per doz.

### Tuberous=Rooted Begonias.

Our mixed tubers are all from varieties with splendid flowers, of fine form and substance, of dwarf growth, well adapted for bedding, and present in unsurpassed mixture all the following distinct colors: Bronze, yellow, crimson, dark crimson, magenta, orange, scarlet, pink, red, rose and white. They are covered with bloom the entire season; the gorgeous tropical effect for bedding can scarcely be imagined.

**Single varieties** in finest mixture, 15c each; four for 50c; \$1.50 per doz.

# SUMMER FLOWERING BULBS—Cont'd.



BUTTERFLY  
GLADIOLUS.

**BUTTERFLY GLADIOLUS.** Choice mixed sorts. Each, 10c; doz., 75c.

**HYACINTHUS CANDICANS** (*Giant Summer Hyacinth*). Luxuriant, free-growing Summer-flowering plant, spreading two to three feet, throwing up great, tall spikes four to five feet in height, each bearing twenty to thirty large white bell-shaped flowers; of easiest culture and splendid for groups. If planted in the center of beds of scarlet Gladiolus, the effect is magnificent. Each, 10c; doz., \$1.00 or extra large bulbs, each, 15c; doz., \$1.50.

**IPOMŒA MEXICANA** (*Mexican Morning Glory*). A distinct and pretty Mexican species, bearing fine clusters of large, purplish rose-colored flowers; it grows rapidly and succeeds in almost any position; as a plant for covering arbors, veranders, etc., it is invaluable; being tuberous-rooted, it may be wintered like a Dahlia. Each, 35c; doz., \$3.00.

**TIGRIDIA** *Shell Flower*. Curious and beautiful Summer flowering bulbs, producing large, gorgeous flowers, exquisitely spotted, flowering from July to October. 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. Each, 10c; doz., \$1.00.

**Pavonia Grandiflora.** Red, with yellow spots. Each, 10c; doz., \$1.00.

**Grandiflora Alba.** Large ivory white flowers, spotted with maroon and rosy lake in center. Each, 10c; doz., \$1.00.

**TUBEROSES.** One of the most delightful 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 hot-bed; and for a 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 TUBEROSE.

**Excelsior Pearl.** Extra large bulbs. Each, 8c; doz., 50c; 100, \$3.50.

**Dwarf Pearl.** Each, 5c; doz., 35c; 100, \$2.50.

**Tall Double.** Each, 5c; doz., 35c; 100, \$2.50.

**LILIES.** *Longiflorum.* The well-known beautiful snow-white, fragrant hardy Garden Lily; flowers trumpet-shaped, six to eight inches long; height, one and one-half to two feet. Each, 25c; doz., \$2.50.

**Tigrinum Splendens** (*Improved Tiger Lily*). Very large flowers; orange-salmon, spotted black. Each, 25c; doz., \$2.50.

**Tigrinum Flore Pleno** (*Double Tiger Lily*). Immense double bright orange-red flowers, spotted with black. Three to five feet. Each, 25c; doz., \$2.50.

**Album.** Purest white. Each, 30c; doz., \$3.00.

**Rubrum.** White, shaded with deep rose and spotted red. Each, 20c; doz., \$2.00.

**Auratum** (*The Golden Rayed Lily of Japan*). Grandest of all the Lily family, flowers pure white, with crimson spots, through the center of each petal runs a clear golden band, flowers measure nearly a foot across, produced abundantly, deliciously fragrant, two to five feet. First size bulbs, each 35c; doz., \$3.00.



LILY OF THE VALLEY.

**LILY OF THE VALLEY** (*Convallaria Majalis*).

One of the most charming of our Spring-flowering plants. Its slender stems, set with tiny bells, diffusing a delicious odor, have rendered it a universal favorite. They are entirely hardy, and delight in a shady, well-enriched border. Strong clumps for out-door planting delivered until April and after September 1st. Each, 50c.

**MADEIRA VINE.** The old favorite Climbing Mignonette. Thick glossy leaves, and long, hanging stems of feathery fragrant flowers, Each, 5c; doz., 50c.

**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.

**CHINESE PŒONIES.** The herbaceous PŒonies are exceedingly hardy, and will succeed in any ordinary soil, well enriched with good manure. During the Summer month mulching will be beneficial to the roots, especially on dry soils. We offer a splendid assortment, embracing all the leading shades, white, pink, rose, purple, etc., etc. Each, 30c; doz., \$3.00.

# SUMMER FLOWERING BULBS—Cont'd.

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

The leaves of this variety are deep green, with numerous white spots, which give the plant a very ornamental appearance. The flowers are pure white, with a black center. They grow freely, either in-doors or out. 20c each; \$2.00 per doz.

## WHITE CALLA (*Richardia Æthiopica*).

The White Calla, or Lily of the Nile, is a well-known plant of easy culture, and in Winter is one of our best window plants. To aid profuse blooming, keep them dormant from the middle of June to last of August, repot in good rich soil, using a four to six-inch pot, give water, light and heat in abundance, and the result will be most satisfactory. Dry bulbs, 20c each; \$2.00 per doz.; extra large, 30c each; \$3.00 per doz.

## CALADIUM ESCULENTUM.



ELEPHANT'S EAR.

Extra size bulb, 10 to 12 in. circumference.....	75c
First " " 8 to 9 " " "	50c
Second " " 6 to 7 " " "	25c
Third " " 4 to 5½ " " "	15c

### Elephant's Ear.

Grand tropical-looking plant, producing enormous leaves three to four feet long. A favorite for specimens on the lawn. Height, four to five feet. (See cut).

## TROCADERO. A grand sort in flower and foliage.

The blooms are a deep crimson lake of the richest shade, and are borne in wonderful profusion. Twenty-seven separate heads of flowers, were counted on a single plant. Price for any of the above, except where noted; each, 30c; doz., \$3.00.

**Choice Mixed Canna Roots.** Our selection; each, 15c; doz., \$1.50, post-paid.



DAHLIA.

## DAHLIAS

Too well-known to need a ny description. We can supply roots of any of the following colors. Red, White, Purple, Lilac, Rose, Yellow, Brown, Red Spotted, Blue, Canary, Straw Colored and Variegated. 20c each; \$2.00 dozen.

**MIXED GLOXINIAs.** These comprise all shades of color and erect, horizontal and pendulous flowers; for those who do not care about special color they will be found very desirable, as only fine varieties have been kept, the poor and dull colors having been discarded. 20c each; \$2.00 per doz.

## Ever-blooming French Cannas.

**Capt. P. de Suzzoni.** A tall growing variety, deep yellow, lightly spotted with red, so that the general effect at a distance is yellow. As a companion to Trocadero it is excellent; large flower and fine green foliage. Each, 25c; doz., \$2.50.

**Egandale.** A fine dark foliage variety, with flowers of a soft currant red, very distinct and striking in appearance. Each, 25c; doz., \$2.50.

**FRANÇOISE CROZY.** The color is of unique shade of apricot, bordered with bright yellow.

**Horace Choisel.** Deep rich magenta, strong, compact grower, a very fine variety.

**J. D. Cabos.** Another dark foliage variety, with flowers of very rich orange, tinged with apricot. As a contrasting variety in foliage and flower it is unsurpassed. Each, 30c; doz., \$3.00.

**M. Laforcade.** Bright, orange-scarlet flowers, coffee-colored foliage, dwarf, compact grower, very fine.

**MAD. CROZY.** Resembles Francois Crozy, finer. Each, 30c.

**Pres. Hardy.** Deep orange, mottled with rich chrome yellow, a unique and pretty variety. Each, 25c.

**Pres. Carnot.** A majestic variety with dark chocolate foliage, flowers deep scarlet, large and beautifully rounded. Each, 20c.

**GLADIOLUS.** Our bulbs of this magnificent flower includes only the very finest varieties. Our mixtures will be found of a high standard of excellence. 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. The cultivation of Gladiolus is very simple, as they will thrive in any good garden soil, but amply repay good care and liberal feeding by enhanced size and beauty.

**All Colors. Mixed.** Each, 5c; doz., 30c; 100, \$2.00.

**Extra Choice. Mixed.** Each, 5c; doz., 40c; 100, \$2.50.

**Scarlet and Crimson Varieties. Mixed.** Each, 5c; doz., 30c; 100, \$2.00.

**White and Light Varieties. Mixed.** Each, 5c; doz., 50c; 100, \$3.25.

**Yellow Varieties. Mixed.** Each, 5c; doz., 50c; 100, \$3.25.

**Pink and Variegated Varieties. Mixed.** Each, 5c; doz., 40c; 100, \$2.50.

**Separate Colors of Red, Scarlet, Crimson, White, Yellow, Pink, Variegated, Rose or Striped.** Each, 10c; doz., 75c.

## ROOTS.

### HORSERADISH.

Per 100.....65c.; per 1000, \$5.75

### ASPARAGUS.

Columbia Mammoth White.....per 100, 70c.; per 1000, \$6.50  
 Palmetto.....per 100, 60c.; per 1000, \$5.50  
 Colossal.....per 100, 60c.; per 1000, \$5.50

### RHUBARB.

Linnaeus.....per 100, \$1.50; per 1000, \$12.00  
 New Giant.....per 100, \$1.50; per 1000, \$12.00  
 Victoria.....per 100, \$1.25; per 1000, \$10.00

## IMPORTED DUTCH BULBS.

In Fall we have a complete and well-selected assortment of Dutch Bulbs, our own importation, direct from the best Bulb growers. Our assortment consists of Hyacinths, Tulips, Crocus, Narcissus, Snowdrops, Anemones, etc., etc., all of which should invariably be planted in the Fall. Price List ready in September and mailed free on application.

## REMEDIES FOR INSECTS AND FUNGUS.

Hammond's Slug Shot.....5-lb. pkgs., 25c.; 10-lb. pkgs., 50c.; carton, 15c  
 London Purple.....per lb., 25c  
 Paris Green.....per lb., 25c  
 Persian Powder, or Bubach.....per lb., 40c  
 Lemon Oil.....in pint tins, each, 40c.; qts., 75c.: per gal., \$2.75  
 Hellebore.....per lb., 25c  
 Carbolized Soap.....1 gal. cans, \$1.00  
 Nicotine.....per pint, \$1.50  
 Lenox Concentrated Bordeaux Mixture.....1-gal. cans, \$1.00  
 Tobacco Dust, fine.....lb., 10c.; 5 lbs., 35c.; 10 lbs., 65c  
 Tobacco Soap.....per lb., 35c  
 Whale Oil Soap.....lb., 15c.; 2 lbs., 25c.; 5 lbs., 60c  
 Thrip Juice.....½-pt. can, 30c.; 1 pt., 50c.; 1 qt., 75c.; 1 gal., \$2.00; 5-gal. keg, \$7.00  
 Guicide Powder.....5-lb. pkg., 50c.; 25 lbs., \$1.75  
 Bordeaux Mixture.....25-lb. pkg., \$1.00  
 Copperdine.....per qt., 50c.; 1-gal. cans, \$1.50  
 Grape Dust, Hammond's.....5-lb. pkg., 35c.; 100-lb. keg, \$5.00  
 Flour of Sulphur.....per lb., 10c.; 10 lbs., 60c  
 Sulpho-Steatite Powder.....5 lbs., 60c.; 25-lb. boxes, \$1.50

Should any of the above be sent by mail, 15c. per lb. must be added to pay postage.

## FERTILIZERS.

Pure Bone Meal.....	5 lbs., 25c; 25 lbs., \$1.00; 100 lbs., \$2.00; 200-lb. sack, \$4.00
Pure Bone Flour.....	5 lbs., 25c; 25 lbs., \$1.25; 100 lbs., \$3.00; 200-lb. sack, \$5.00
Coarse Bone.....	5 lbs., 25c; 50 lbs., \$1.50; 100 lbs., \$2.50; 200-lb. sack, \$4.00
Nitrate of Soda.....	50 lbs., \$2.25; 100 lbs., \$4.00; 200 lbs., \$7.50
Odorless Phosphate.....	bags of 200 lbs., \$3.00
Lawn Dressing.....	5 lbs., 25c; 25 lbs., 75c; 100 lbs., \$2.50; 200 lbs., \$4.00
Tobacco Stems.....	per bale, \$2.00
Kitchen Garden Fertilizer.....	5 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.50; 200 lbs., \$4.00
Peruvian Guano.....	lb., 10c; 25 lbs., \$1.50; 100 lbs., \$4.50
Bowker's Ammoniated } Food for Flowers... }	large pkg., 25c, by mail, 40c; small pkg., 15c, by mail, 25c.
Hanson Flower Food.....	price, 15c, 25c and 50c.
Land Plaster, or Gypsum.....	bbl., about 275 lbs., \$1.75; 5 bbls., \$8.50; f. o. b. St. Louis. In lots less than barrel, 2c per lb.
Plaster Paris.....	per lb., 2c; bbl., \$2.75
Disinfecting Lime.....	per bbl., \$1.80

### THE DOUBLE-TUBE LIGHTNING

## Insect Exterminator No. 20.

(Patented August 30, 1888.)

**Kills, Drives Away and Exterminates Every Living Thing Obnoxious to Yourself, Your Animals or Your Crops.**



No. 20 Sprayer has detachable glass reservoir, provided with our patent spring leather plunger expander, which at all times keeps the leather washer expanded, and will not allow it to wrinkle or dry up, which is the case in former sprayers, which will be appreciated at a glance by anyone who is familiar with sprayers. Our No. 20 Sprayer is the only sprayer having a glass reservoir, detachable, encased so that the operator at all times can see the ingredients mixing, and just how they are working. Also have 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—which can not be done with any other shaped sprayer—and will not allow Paris green to settle. The glass sprayer will not corrode or rust out, as is the case with all other metal. This will be appreciated at a glance.

The screw cap of this sprayer is made of heavy zinc, and the air chamber and jacket are made of heavy tin, nicely painted a bright red, making it very durable and attractive.

The Double-Tube Lightning Insect Exterminator is double the capacity of any other sprayer made, covering a radius of 2½ feet, producing two large sprays with one operation. The reservoir filled with water and a teaspoonful of Paris green is sufficient to kill 2,000 hills of potato bugs, which can not be done with any other sprayer made. **Price, \$1.00 each.**

## CATTLE FLY OIL.

Cattle Fly Oil is prepared and put up in one-gallon cans, expressly for keeping flies from stock during the summer months, and which is guaranteed to do the work, by simply spraying with the Lightning Insect Exterminator. It is perfectly harmless, and will be found a great comfort to the cows, also when milking; also for horses. The Lightning Insect Exterminator throws a very fine spray of the oil mixture, and a gallon of Cattle Fly Oil is sufficient to spray 500 cows. This is usually applied while the cows are in the stables, and before milking. After a few applications, only every other day is necessary. A greater flow of milk is guaranteed by using the Cattle Fly Oil. No farmer can afford to be without this valuable invention after a few applications. Full description on every can.







## The Lightning Compressed Air Sprayer, No. 21.

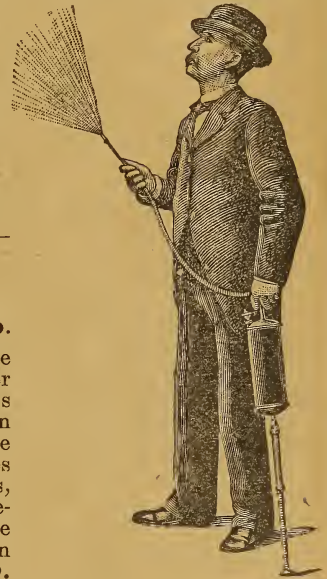
PATENT APPLIED FOR.

Will throw any kind of spray, from the finest dew to a heavy or solid continuous stream 30 feet high.

The Lightning Sprayer No. 21 is operated by compressed air. An air pump is attached to the tank, which is made of heavy galvanized iron. The air is forced in up to a pressure of 60 pounds, and is governed by a check valve, which prevents over-pressure. This Sprayer is made strong, and nicely painted.

To OPERATE THIS SPRAYER.—The tank holds nearly four gallons, and is filled about two-thirds full, and

then it takes about one minute to pump the air in, and the machine is then ready for use. All the operating you need do is to open the stopcock, which is turned to throw a fine mist or a coarse spray, or a continuous stream. The compressed air tank, being powerful and elastic, forces the liquid out through the outlet pipe, making a very fine or solid continuous stream. This Sprayer is one of the greatest inventions of the age. No labor is required after the air is once pumped into the tank, which only takes about one minute.



## Automatic Spray and Force Pump.

PUSH DOWN—THE SPRING DOES THE REST.

UNIQUE AND MOST PRACTICABLE.

NO FOOT FASTENING REQUIRED.

It is made of nickeled brass, galvanized iron tubing, extra large air chamber or reservoir, brass spring, pure rubber valves, saucer shaped, anti-clogging foot with strainer on top, and with the sprays that go with it, warrants us in claiming that it is what has long been needed for all purposes. It will pump from the pail or will carry the material to be used in "a field;" and, with the fine spray, carries enough to last ten to fifteen minutes in potatoes, fruit trees, grapes, tobacco and greenhouses. The Automatic is otherwise generally useful, is first class in construction, nicely finished, and, at the price named, should be acceptable to all. Our experience of last season gives us great confidence in making this guarantee. **Price, \$3.00.**

## THE LENOX SPRAYER.



The straps are provided with buckles and are adjustable to fit a boy or man of any size. It is also provided with a fine strainer cloth at the top where the liquid enters, to prevent leaves or dirt from getting into the Sprayer, thus impossible to clog up the nozzle. A man with one of these Sprayers will only use one-half the Paris Green that is required by the whisk broom or any other method, the spray being a mere mist. **No waste whatever.** No burning of the vines as by large drops. You will only require to take out one barrel of water to the field instead of four by any other method. The most economical and perfect working apparatus on the market. It pays for itself by very little use. Full directions with every machine, including many valuable recipes. **Price, \$4.00.**

A reliable chemist advises always to strain your liquid poison through two thicknesses of burlap (sacking). You do not need the poison thick, for the moment it touches the water it is poisoned. Strain the poisoned water before putting it in the Sprayer and you will have clear liquid poison.

We have all the Extras belonging to this Sprayer.

### BIRD SEED.

Our Bird Seeds are always Recleaned, Fresh and Sweet.

Mixed Bird Seed .....	per lb., 10c. ; 3 lbs. for 25c.	Maw Seed .....	per lb., 25c.
Mixed Canary and Rape Seed .....	10c. ; 3 lbs. for 25c.	Lettuce Seed for Birds.....	per oz., 5c. ; per lb., 60c.
Clear Canary Seed .....	10c. ; 3 lbs. for 25c.	Sunflower Seed for Parrots.....	per lb., 10c. ; 3 lbs., 25c.
Hemp Seed.....	10c. ; 3 lbs. for 25c.	Cuttle Fish Bone.....	1/4 lb., 15c. ; per lb., 40c.
Rape Seed .....	10c. ; 3 lbs. for 25c.	Mocking Bird Food.....	per bottle, 25c.

If by mail, 8 cents per pound and 30 cents per bottle for Mocking Bird Food must be added to prepay postage.

### CREAM CITY RAT EXTERMINATOR.



This is not a poison, and is specially recommended for places where rats and mice are numerous, as it is not dangerous for cats, dogs or chickens. Is warranted to drive away rats or mice.

Put up in 25c. and 50c. packages.

### DUST CANS.

For applying Slug Shot or other similar Powders.

Small size .....	each, 35c.	Small size, filled with Slug Shot.....	each, 20c.
Medium size .....	each, 25c.		

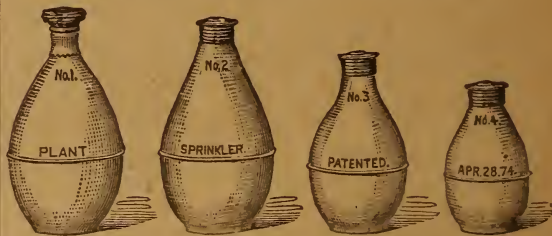
### Fox's Potato Bug Exterminator.



The best machine in the world for applying liquid poison to plant, vine or bush. Full description and directions how to use will be sent with every machine. No better investment could be made, and certainly not a more profitable one, than in the investment of \$3.00 in this machine, as it will save its price many times over in a season's use.

Price ..... \$3.00

### PLANT SPRINKLERS.



For Sprinkling Flowers, etc. Postpaid, \$1.10.

### SCOLLAY'S IMPROVED PUTTY BULB.

Scollay's Improved Putty Bulb.  
Postpaid, \$1.10.

### Crescent Force Pump and Sprayer.

Similar to the Automatic, but smaller in size, works the same and gives good satisfaction. Each, \$1.25.

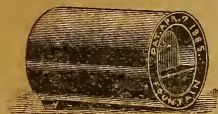
SNOW FLAKE AND FIRE KING SWEET PEAS CAN'T BE BEAT.  
INCLUDE A PACKAGE OF EACH IN YOUR ORDER.

### RAFFIA. Used for Tying.

Per pound ..... \$0 35

# POULTRY SUPPLIES.

## Patent Stoneware Drinking Fountain, For Poultry, Pigeons and Bees.



**THE BEST AND CHEAPEST FOUNTAIN IN THE MARKET. THOUSANDS OF THEM IN USE.**

They keep the water cool and clean, and chicks from getting wet. Are easily filled. Never tip over or get out of order.

To fill, set it up on end and pour the water in; then lay it down on its side, as shown in the engraving, and a vacuum is formed, which keeps the water in, but allows free access to it. To clean, if it needs it, fill with water and sand, turn it sideways, and shake the water and sand out.

Many do not appreciate the necessity of a fountain, but impure water, caused by exposure to the sun, and filth scratched into old crocks and pans, are the cause of much disease and death in the poultry yard, loft and cages. Chicks also get into open jars, and either drown or get wet and die. Saving the life of one valuable bird will pay for a dozen fountains.

Half-gallon, weight 3 lbs. .... each, \$0 25  
One-gallon, weight 6 lbs. .... each, 35  
Two-gallon, weight 12 lbs. .... each, 50

## PRATT'S POULTRY Food.



**PRATT'S POULTRY FOOD**

Is the Best on the Market. It cures and prevents

**CHICKEN CHOLERA, CROUP, GAPES and all DISEASES.**

It makes young chicks grow quickly and healthy. It increases the quantity of eggs. It makes turkeys, ducks, geese and pigeons thrive. It will help moulting fowls and make them lay sooner. A trial will convince you. 26-oz. pkgs., 25c; 5-lb. pkgs., 60c.

## PRATT'S HORSE AND CATTLE FOOD.

5-lb. pkgs., 50c; 12½-lb. sacks 75c.

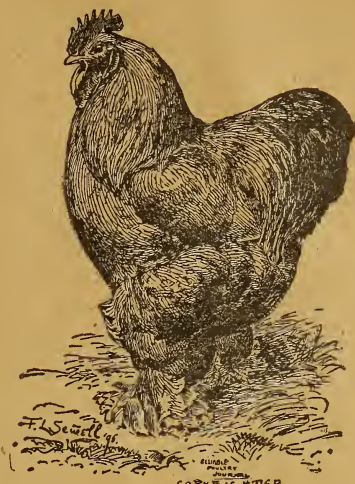
**BONE MEAL.** The best way in which to feed bone meal to your chickens is by giving them the pure meal. We guarantee ours to be pure. Lb., 3c; 10 lbs., 25c; 100 lbs., \$2.00.

**WILBUR'S EGG AND POULTRY FOOD.** An article that will make your hens lay and keep them in good healthy condition. 2½-lb. pkg., 25c.

## RAVEN'S FOOD.

**FOR HORSES, CATTLE AND POULTRY.**

An excellent food for any purpose. 1-lb. pkg., 25c; 2-lb. pkg., 45c; 5-lb. pkg., 90c. If by mail, add 16c per lb. to pay postage.



## New Chick Manna

Try our Chicken Manna. It will keep your Poultry in a good, healthy condition.

A trial will convince you.

Contains Everything for Poultry.

Is the Best and Healthiest of all

**CHICKEN FOODS.**

Send for sample **FREE.**

5-lb. pkg. .... \$0 20      50-lb. pkg. .... \$1 40  
10-lb. pkg. .... 40      100-lb. pkg. .... 2 50

F. O. B. St. Louis.

## PIONEER CLOVER MEAL.

Pioneer Clover Meal contains every part of the egg shell, white and yolk, and is considered by all eminent authorities as a perfect Poultry Food. Give it a trial, and we are confident that it will make you a confirmed friend. Trial package, 3 lbs., 20c; 50-lb. sack, \$1 00; 100-lb. sack, \$2.00.

## CUT CLOVER.

An excellent article for green feed during winter months; 50-lb. sack, 75c; 100-lb. sack, \$1.25.

## IMPORTED MILLET.

10-lb. pkg. .... \$0 30      50-lb. pkg. .... \$1 40  
25-lb. pkg. .... 60      100-lb. sack. .... 2 75

## KAFFIR CORN.

10-lb. pkg. .... \$0 25      50-lb. pkg. .... \$0 75  
25-lb. pkg. .... 40      100-lb. sack. .... 1 00

Prices subject to market change.

**ENOUGH TO MAKE ANY CHICKEN LAUGH!!!**



## Mica Crystal Grit.

The Best and Only Grit for **POULTRY.**

5 lbs., any size, 15c.

10 lbs., any size, 25c.

50 lbs., any size, 50c.

100 lbs., any size, 80c.

POULTRY SUPPLIES—Continued.



TRY IT.

Small Package, 25c.

2-lb. Package, 90c.

Wilbur's Food.

23-oz. Package, 15c.

Large Package, 25c.

It will keep your chickens strong and healthy. It will make young pullets lay early. Worth its weight in gold for moulting hens, and prevents all diseases.

OYSTER SHELLS.

This is one of the Best of Poultry Foods.

10-lb. pkg.....	\$0 25	50-lb. pkg.....	\$0 50
25-lb. pkg.....	35	100-lb. sack.....	80

GRANULATED BONE.

Contains all the elements that go to form the egg. We have this in two sizes—coarse ground for hens and turkeys, and fine for young chicks. 5-lb. pkg., 25c; 10-lb. pkg., 40c; 25-lb. pkg., 60c; 50-lb. pkg., \$1.15; 100-lb. sack, \$2.25.

BUCKWHEAT.

10-lb. pkg., 35c; 50-lb. pkg., \$1.40; 100-lb. sack, \$2.25

CANADA FIELD PEAS.

10 lbs., 35c; 50 lbs., \$1.25; 100 lbs., \$2.00. Prices variable.



EGG-O

A... Vegetable Poultry Regulator.

We... Guarantee Its Purity.

Is invaluable for the moulting fowl and will make hens lay regularly.

We guarantee Egg-O to prevent and cure all Poultry diseases.

Egg-O is packed in trial packages containing twenty-eight ounces of food, at 25c. Also in large bags—10, 25, 50 and 100 pounds—which retail at 10c. per pound. A trial will convince you of its wonderful powers as a regulator and egg producer.

LAMBERT'S "DEATH TO LICE."

15-oz. box, 25c; 40-oz. pkg., 50c; 100-oz. pkg., \$1.00. If to be sent by mail, add 1c per ounce for postage.

"DEATH TO LICE" OINTMENT.

A pure white, perfumed mixture that will do the work quickly without injury to the chicken in any way Invaluable also for lice on children, scaly shanks on fowls, etc. A 1-oz. box is sufficient for 100 little chicks. We improved the formula last spring; it will now keep in any climate. 1-oz. pkg., 10c; 3-oz. pkg., 25c.

If you prefer a liquid louse-killer, for painting roosts, nest boxes and inside of henneries, buy

LAKE'S LICE EXTERMINATOR.

It is a liquid preparation and is the first liquid lice killer ever put on the market. Absolutely harmless to all kinds of stock, poultry and pet stock of all kinds. Sure death to lice, mites, fleas, roaches, bedbugs, etc., on horses, cattle, sheep, hogs, dogs, cats, chickens, pigeons, house plants, etc. Pint can, 30c; quart can, 45c; 1/2-gallon can, 65c; gallon can, 90c. Give it a trial.

THE GREELEY ROUP CURE

Is the best remedy ever used for a case of this dreaded disease. It will cure a severe cold in twenty-four hours, will reduce the swelled head and eyes, and put the bird in a good condition in a few days' time. It is not safe to be without it, especially when exhibiting poultry. We sell it with a guarantee. Per box, 25c, postpaid; one doz. by express, \$2.00.

CORN MEAL.

Fine, 100 lbs. .... \$2 00 Coarse, 100 lbs. .... \$1 50

LINSEED MEAL. Extra Fine, in Barrels.

OIL CAKE MEAL. In Sacks.

Write for Special Prices.

WHEAT.

Per bushel..... \$1 00 Price variable.

BARLEY.

Per bushel..... 85c. Price variable.

PREPARED CHARCOAL.

1-lb. pkg.....	\$0 05	50-lb. pkg.....	\$1 75
5-lb. pkg.....	20	100-lb. sack.....	3 00

INCUBATORS.

The Reliable Hot Air Special, 400-egg.....	\$32 00
" " " " " " 300 ".....	24 00
" " " " " " 200 ".....	16 00
" " " " " " 100 ".....	12 00
" " " " " " 50 ".....	7 00
Porcelain Nest Eggs, each, 5c; per dozen.....	45
Medical Nest Eggs, each, 10c; per dozen.....	1 00

LEG BANDS.

Per dozen.....	\$0 20	One hundred.....	\$1 00
Fifty.....	65	Poultry Markers, each	25

Excelsior Stock Food.

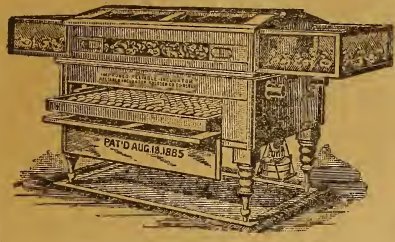
A Nutritive and Restorative Tonic, Purely Vegetable, for Cattle, Horses, Sheep and Swine. Saves grain by causing perfect assimilation.

BREEDERS, FEEDERS and DAIRYMEN Can not afford to be without EXCELSIOR STOCK FOOD, and you can save money by buying in large quantities.

2-lb. package, 50c.

# RELIABLE INCUBATOR & BROODER CO.

## Anything You Want in the Poultry Line?



..WE are recognized by the expert poultry breeders and farmers all over the world as making the very best line of Incubators, Brooders and Poultry Appliances, and have been the means of making it possible "Why Poultry Pays" and "How to Make it Pay." That which is most important is an incubator and brooder which are perfectly reliable; an incubator that will hatch every fertile egg, a brooder which saves and pushes it along to healthful maturity.

RELIABLE INCUBATOR AND BROODER Co.,

SOUTHERN PINES, N. C., Oct. 27, 1899.

Quincy, Ill.

Gentlemen:

I purchased a hot water Bantling from you some time ago. I must confess entire satisfaction with the machine. When ready to add another, which I trust will be in the Spring, it will be another 50-egg size hot water Bantling. I run my machine in a cool, damp cellar and got two good hatches, 34 from 55 untested eggs, and then I took the turning racks out and put in 90 eggs and hatched equally as good per cent, and the eggs were not tested. I am now awaiting the hatch of 60 white Wyandotte eggs. If you can just add an automatic turning arrangement, and another device to fill and trim the lamp, your machine will be almost independent of human assistance. Send me your latest catalogue, so I may post myself on the prices if they have changed, in order that I may purchase. I am,

Respectfully yours,

J. H. TILGHMAN.

There is only one "best" or one which will meet all these requirements, and that is the world-famous **RELIABLE INCUBATOR AND BROODER**. They are built exactly right and have given more money-making poultrymen perfect satisfaction than any three machines made.

RELIABLE INCUBATOR AND BROODER Co.,

MEXICO CITY, MEXICO, Sept. 27, 1899.

Quincy, Ill.

Gentlemen:

I bought over \$2,000 worth of goods from you. My last purchase was made through the house of Joseph M. Del Rio, of this city, and was for 10 Incubators, 7 Brooders and 10 Chicken Cages, for hens with chicks and for exposition, boxes for eggs, etc., which cost over \$1,000, and in order that you may see that I prefer yours to other manufacturers, I now send you photographs of my installation where I have your production. I am using incubators of all the American and European systems, but the ones that you make are the ones I prefer, because they are the only ones that moisten the air before it enters the egg chamber; because no other manufacturer has taken into consideration that we are situated at a height of 5,000 feet above the level of the sea, and the air in this locality is so rarefied that all chickens die in the shell from lack of moisture. Many people in this country have tried to buy from me your machines, but as I had so many difficulties to get the commission merchant to bring them to me, I have refused to sell them. In order that you may know who I am, I send you an article on "Incubation" I wrote, also my appointment as a juror for the Cattle Exposition, and a letter from the Secretary of the State inviting me to accompany the President, and I beg of you to return these documents to me.

I send you 100 cents instead of 10 cents, that you may kindly send me 10 of your 20th Century Catalogues to distribute among my friends. I remain,

Yours truly,

J. R. DE ALTAMIRA.

Our regulators on the **Reliables** will regulate to a fractional part of a degree. They have perfect ventilation. No sloppy moisture pan system, as no moisture is used. We claim the **Reliable** is the only incubator that has the moisture question settled exactly right, as our process of conditioning the air for hatching more nearly reproduces the condition under the hen. See one of the many letters that help to convince us of this fact.

Our 20th Century Poultry Book tells how successful men make the business pay, and is written from a practical, every-day experience standpoint, and is worth a dollar to any one interested in poultry, but we send it **FREE**, if you will send 10 cents to pay postage.

Address **Reliable Incubator and Brooder Co.**, Box, O 4,  
Quincy, Ill.

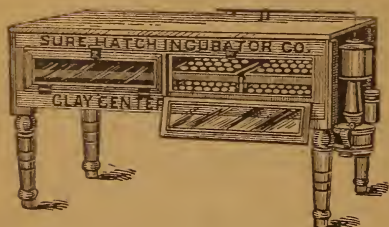
Do not place your order until you get our catalogue, as we have some surprises in store for you in regard to prices.

The **RELIABLE** will be on exhibition in Paris, France, in 1900.

**JOS. F. DICKMANN SEED CO.**, Agents Reliable Incubators and Brooders,  
GOODS KEPT IN STOCK. . . . . ST. LOUIS, MO.

# Sure Hatch Incubators

## and Common Sense Folding Brooders



Thousands of our INCUBATORS and BROODERS in successful operation. No experiment in this case. The SURE HATCH is the only incubator with three walls and two dead air spaces around the egg chamber. *Late patents* and acknowledged leaders. Low priced, fully guaranteed and we pay the freight. Are made for business and do the business. No over-

heating center of egg chamber. The moisture question made easy and the instructions so plain and easy that failures can not occur.



### Common Sense Folding Brooder

needs only to be seen to be appreciated by practical poultry raisers.

Ready to clean.

Brooder in use.










No climbing a ladder for the small chicks. Chicks invariably chill and die before they are possessed of sense enough to hunt up a ladder to get in the brooder. The COMMON SENSE BROODER sets flat on the ground and the little chicks run in and out as they wish. The heat is applied to their backs in a natural way and they thrive and grow fat. Our 1900 Catalogue is chock full of practical poultry helps. No air-castle figures on profits or misleading statements. Deals with the poultry question from a cool, practical standpoint. Contains more real information than all other catalogues combined. We send the catalogue *free* to any address. *Send for it now.*

SURE HATCH INCUBATOR CO.

CLAY CENTER, NEBRASKA.

# The Acme Hand Corn Planter

**Accurate.** Its dropping device must always drop as set. There is nothing about it to catch or stick and crack corn. It slides in a cast iron hopper bottom and can't wear out. **Light and strongly made throughout, with bass-wood sides, handles well bolted on, strong steel jaws, well riveted together and to the sides.** Neatly finished in varnish and well packed       

# "PLANET JR." TOOLS FOR 1900.

Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue **free for the asking** to any who desires it. "Planet Jr." goods are standard machines; the best; yet great improvements have been made for 1900. We direct special attention to the new No. 3, 4 and 5 Sowers, the new No. 11, No. 12 and No. 13 steel arch Double Wheel Hoes, and the No. 15, No. 16, No. 17 and No. 18 Single Wheel Hoes. **You can rely on getting a bottom price from us on any of the "Planet Jr." goods.**

## The "PLANET JR." No. 2 Seed Drill.

This tool is known the world over, and, with the exception of the "Planet Jr." Hill Dropping Drills, is the most perfect drill known. It holds two and one-half quarts.

The drill sows in an even, regular stream, whether there is much or little in the hopper. The opening plow, being directly between the wheels, follows all irregularities of the ground, is adjustable, and once set opens the furrow at a uniform depth, and the seeds are deposited in a very narrow line. The machine is extremely simple; no agitators, belts or gearing. **Price, \$7.75.**

## "PLANET JR." No. 4 Combined Hill Dropping Seeder, Single Wheel Hoe, Cultivator, Rake and Plow.

This is exactly the same style of seeder as the No. 5 "Planet Jr." Hill Dropper. It is smaller in capacity, though still of good size, holding two quarts. It drops in hills at 4, 6, 8, 12 and 24 inches apart, and in drills any thickness, handling the smallest paper of seed perfectly, and is simple, durable and very light running. **Throws out of gear instantly by simply raising the handles.** The index is accurate, plain and easily set. The Drill is detached and the tool frame substituted by moving but one bolt. It then becomes one of the most admirable Single Wheel Hoes of the "Planet Jr." family. It has a fine garden plow, two new-style hoes, perfect shape, three delightful cultivating rakes, new form, and made especially to fit 6, 9, 12, 14 and 16-inch rows, three cultivator teeth and a practical leaf guard. **Price, complete, \$12.00; as a Drill only, \$8.50.**

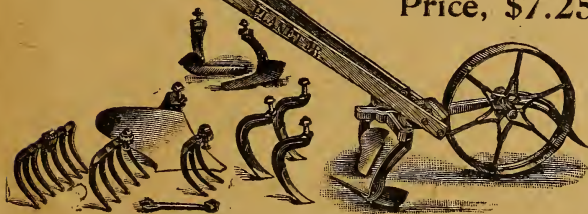
## "PLANET JR." No. 11 Double Wheel Hoe, Cultivator, Rake and Plow

This tool, first offered for '98, combines in itself the good points of its predecessors with valuable new ideas. It has 11 inch 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 being attached to the arch, are entirely undisturbed in making changes of the height of frame, width of wheels or in the adjustment of the tools themselves. The arch is of stiff steel, unusually high. The design of the frame is novel, allowing all changes of tools to be made without removal of the nuts from the standards. A pair of model rakes and a pair of new style hoes are added to the usual equipment—seven pairs of tools in all. The whole set shown in the cut goes with the complete tool. All the blades are of tempered and polished steel. The variety of work possible with this machine is incredible, covering the whole range of wheel hoe work, both in the garden and on the farm, and has our unqualified endorsement. **Price, \$9.50.**

## "PLANET JR." No. 15

Single Wheel Hoe,  
Cultivator, Rake  
and Plow.

Price, \$7.25



Price, \$7.25.

This latest and best Single Wheel Hoe, improved for 1899, has an 11-inch wheel, with broad face, and a conveniently arranged and a very full set of tools, several of them being of new, special design, such as have been found to perform Wheel Hoe work in the very best manner. It is very light and strong and easy running; has three more tools than the old "Planet Jr." and does a much greater variety of work and does it better. Has adjustable handles and frame, especially adapted for quick changing of teeth. It is a most perfect Wheel Hoe for market gardeners or private places. The tools are a well-shaped plow for plowing, marking out, covering and late cultivation; a pair of neat 4-inch shield hoes, just right for hoeing in rows from 9 to 12 inches, and a large pair for wider work, and three cultivator teeth. Also a set of three rakes, just right for 6, 9, 12 and up to 16-inch rows, with two arranged side by side; the rakes are just the thing for preparing ground for the Seed Drill. A practical leaf guard completes the equipment.

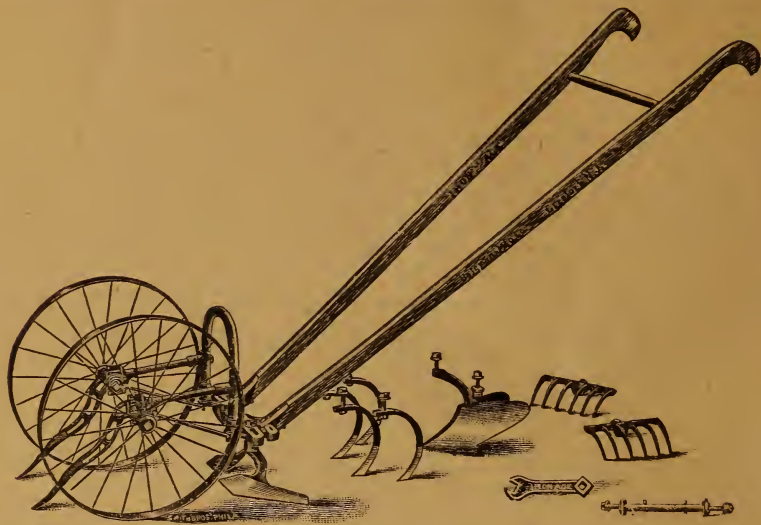
The frame changes in height, and the wheel to the other side of the frame, when both sides of the row can be hoed at one passage.

## "PLANET JR." Harrow and Cultivator.

This comparatively new tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It is carefully made and finished, has a high frame and the chisel-shaped teeth cut an inch wide each, and may be worn down three inches before that width is lessened or the teeth worn out; even then they are cheaply replaced. It may be set with teeth trailing, by simply changing one bolt in each tooth. The foot lever pulverizer is a capital addition for preparing ground for the Seed Drill or for plant setting, and controls the depth of the rear teeth. Hand levers regulate both width and depth while in motion; it contracts to 12 inches, and may be further reduced in width by taking off the outside teeth; it expands to 32 inches. It cultivates deep 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 disc mounted on an outrigger. Strawberry Runner Cutter Attachment extra. **Price, plain, \$7.00; with Wheel, \$8.75; Complete, \$10.50.**

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# The "IRON AGE" WHEEL HOES and SEED DRILLS

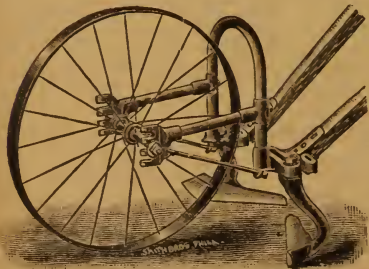


## The "Iron Age" Double Wheel Hoe, with Cultivator Teeth, Plows and Rakes.

Packed Weight, 40 lbs. PRICE, \$7.00.

Among the principal labor-saving tools in the hands of the market gardener must be considered *Wheel Hoes*. Nay, we may insist that it leads all others, for they are really indispensable, and without their aid it would be an almost impossible task to keep the market supplied with such immense quantities of row-grown vegetables. They have done away with the back-breaking and time-killing methods of the olden time, one man performing in a more thorough manner, and with greater ease to himself, the labor of several men. As with all other improved methods of labor, it requires a little practice to enable one to realize the best results with a wheel hoe. A novice will usually push steadily ahead; not so—give the tool a *thrust* ahead, watching the wheel rather than the hoe, and taking a step at each thrust; this brings a result which the term *wheel hoe* implies; an ordinary hand hoe would accomplish little if simply dragged through the ground.

Having shown what is expected of a wheel hoe, we desire to bring to the notice of the reader the "**Iron Age**" *Wheel Hoe*. Without disparaging the many excellent tools of this character already in use, we recently became convinced from our own practical tests—we have been making wheel hoes for years—and the expressions coming from the workers in the field, that further improvement was possible and necessary. **Higher Wheels** were called for; the old pattern frames were made of gray iron, and were consequently *too heavy*, to say nothing of their constant breakage. How well we have corrected these points, and still other improvements, we will endeavor to show. We have practically made the tool "bicycle construction."



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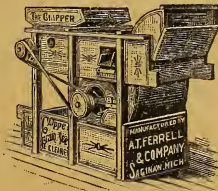
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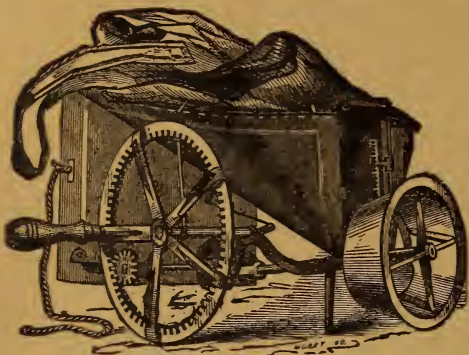
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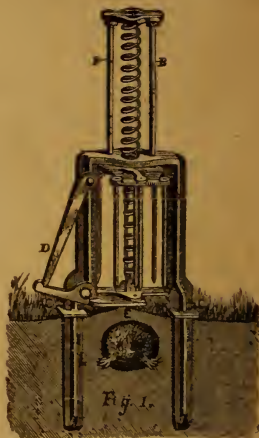
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