



SEED · ANNUAL · 1913



D. M. Ferry & Co.
- Seedsmen -
Detroit, Mich.

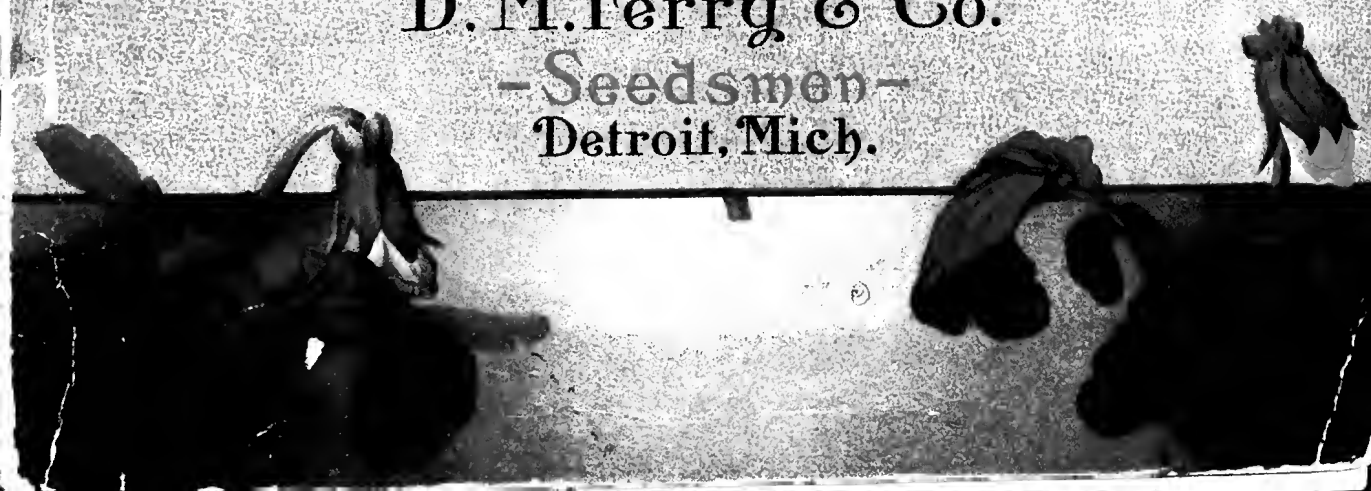


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D. M. FERRY & CO'S SEED ANNUAL ≡≡≡ 1913 ≡≡≡

FOREWORD

BECAUSE of the element of time involved, the sower of seeds usually has but a single chance of success in a season; hence we caution the buyer or planter to make sure that the seeds he gets are vital and that their product will be satisfactory. The buyer is in the hands of the seller and it behooves him to place his trust in the seedsman who has most at stake.

During the fifty-seven years which we have been in the seed business we have enjoyed a reputation which we are not prepared lightly to relinquish. It has been to our advantage to put on the market seeds in which we had confidence. We believe that this policy, even though such seeds cost more than those of irresponsible dealers, has not been without profit to our customers.

OUR TERMS ARE STRICTLY CASH WITH THE ORDER. We do not send C. O. D., as the cost of collecting return charges is quite an unnecessary item of expense and the prices being given, we can conceive of no necessity to warrant goods being so sent.

HOW TO SEND MONEY. Remittances may be made at our risk by any of the following methods, viz: Postal Money Order, Draft on New York or Chicago, or Express Company's Money Order.

The rates charged for Postal Money Orders and Express Money Orders are now so low that these are the best ways to remit. We will bear the expense of sending money in either of these ways. Deduct the cost of the order from amount sent. Express Money Orders can be obtained at all offices of the principal Express Companies. They are cheap and absolutely safe.

When Money Orders cannot be obtained, letters containing money should always be registered. Money in ordinary letters is unsafe. If currency is sent by express, the charges should be prepaid, and if local checks are used they must be certified.

FREE OF POSTAGE OR EXPRESS CHARGES. **Packets, Ounces, Two Ounces, Quarter Pounds or Pounds,** ordered at list prices, will be sent free by mail or express.

Customers ordering enough for a freight shipment, 100 pounds or more, or desiring to pay their own express charges, may deduct 10 cents per pound from prices of this catalogue on all seeds quoted by the pound or less.

PINTS AND QUARTS. Pints, Quarts and Four Quarts, ordered at list prices, fifteen cents per quart, ten cents per pint, must be added for postage or express charges and they will then be sent free.

ONE-FOURTH BUSHEL, BUSHEL AND HUNDRED POUND LOTS. Where One-Fourth Bushel, Bushel or Hundred Pound lots are ordered, we deliver free at depot or express office in Detroit, Mich., the freight or express charges to be paid by the party ordering.

Where perishable or other goods are ordered to be sent by freight or express to such great distances that the cost of transportation will nearly or quite equal the value of the goods, we must decline to ship unless purchasers remit us, in addition to the price of goods, sufficient funds to prepay transportation charges. When this requirement is not complied with, we reserve the right of declining the order and returning money to the person ordering.

SEEDS BY MEASURE. One-fourth bushel and over sold at bushel rates; four quarts and over up to one-quarter bushel sold at four-quart rates; less than four quarts sold at quart or pint rates.

SEEDS BY WEIGHT. We supply half pound and over at pound rates; less than half pound lots are charged at ounce, two-ounce or quarter pound rates; 25 lbs. and over at 100 lb. rates when quoted.

BAGS. To every order for one-quarter bushel and upwards, to the amount of two bushels, 25 cents must be added for a new bag in which to ship.

SEEDS IN PACKETS. We offer the following inducements to those wishing to purchase seeds in packets: Select packets to the value of \$1.15 and send us \$1.00; for \$2.35 send \$2.00; for \$3.60 send \$3.00; for \$4.85 send \$4.00; for \$6.15 send \$5.00; for \$12.50 send \$10.00; for \$26.00 send \$20.00. The seeds will be sent by mail, postpaid, but these low rates apply to seeds in packets only and at catalogue prices and not to seeds by weight or measure.

NAME AND ADDRESS SHOULD ALWAYS BE GIVEN. Frequently we receive unsigned letters. Sometimes they contain money and orders. Sometimes too, letters are received in which the name of the town is left out and the postmark is blurred. We cannot fill orders unless we know the name and address of the buyer. The easiest way for you is to use our order sheet filling in the blanks.

GUARANTEE. Complaints made that seeds are not good, should quite as often be attributed to other causes as to the quality of the seeds. There are hundreds of contingencies continually arising to prevent the best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as or before they appear; wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. For the above reasons it is impracticable to guarantee seeds under all circumstances.

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

D. M. Ferry & Co.

Detroit, Mich., January 1, 1913.

Cosmos

One of the most effective annuals for late summer and autumn flowering, especially adapted for display in broad masses or backgrounds. The large flowers are gracefully poised on long stems and are very useful for decorative purposes. (See colored plate opposite and further description, page 72)

Dimorphotheca Aurantiaca

This showy annual with bright orange-yellow flowers, is sometimes called African "Golden-Orange" Daisy. It is one of the most attractive of the easily grown plants of recent introduction. Plants somewhat spreading, with finely cut foliage, producing abundantly on stems of good length glossy, single daisy-like blossoms about two and one-half inches across. The brilliant orange coloring of the petals contrasts strikingly with the black center which is surrounded by a dark colored disc. Well adapted for summer flowering in beds or borders. (See cut on this page and cultural directions, page 73) Pkt. 25c.

Ipomoea

Early Flowering Sky Blue

Ipomoea Grandiflora rubro coerulea

This early and very free flowering strain of Ipomoea has very large bright blue flowers of wonderfully attractive form and color. They are produced through a long season and when in full bloom may be said to literally cover the vines which have large heart shaped leaves of glossy dark green color. The flowers open with a distinct tinge of carmine-rose but when mature they are bright, very light blue. One of the most beautiful annual outdoor climbers for covering a veranda or arbor. Similar in color and size of flower to "Baby Blue" Ipomoea and sometimes called Sky Blue Moonflower. Pkt. 15c.



DIMORPHOTHECA AURANTIACA

Morning Glory—Giant Japanese Mixed

The flowers of this superb variety are of largest size, often three inches or more across; some are brilliant red or rich blue, others are equally brilliant, with broad margins of clear white; some are striped or dotted with blue or red on white or lemon yellow ground, others are clouded with blue and red. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. (See back cover, also page 78 for other varieties of Morning Glory.) Pkt. 5c; Oz. 25c.

Trailing Nasturtium

The design of Trailing Nasturtiums shown on page 79 was executed in natural colors from plants growing at our Experimental Gardens the past season. Our mixture represents in well considered proportions the best shades of color known in the named sorts of this class. We are confident that results from planting any of the Trailing Nasturtiums listed on page 80 will prove highly satisfactory.

Pansies

The superb Pansies on the front cover of this Seed Annual are reproductions in natural colors of specimens grown in the regular Pansy trial at our Experimental Gardens. These flowers in innumerable variations of shades and markings may be obtained by planting a few packets of the varieties and mixtures listed on page 81.

Sweet Peas

Among all the climbers the Sweet Pea is unequalled. Our Ferry's Superb Spencers Mixed, offered for the first time this year, is a magnificent mixture we make up by combining eighteen separate named Spencer varieties, each of which our trials have repeatedly shown to be the very best of its class. It is unsurpassed as a mixture of this superb class and shows the most desirable range of colors and the finest forms. No better mixture in all the world than this. Pkt. 10c; Oz. 50c; ¼ Lb. \$1.50 (See pages 87, 88, 89 and 90)

COSMOS GIANT MIXED

See opposite page





DWARF UNRIVALLED WAX

Dwarf Unrivalled Wax Bean

A new dwarf wax sort of exceptional value on account of its earliness, great productiveness and extreme hardiness. The vines are large and vigorous with leaves similar to Golden Wax in color and shape but are a little larger. The handsome pods of good quality, borne in abundance well up from the ground, are longer than Golden Wax and a little lighter in color, are rather narrow and somewhat flattened but fleshy, and when in proper condition for use are very attractive on the market. It usually matures soon after our Golden Wax and is sometimes as early as that variety. We have found in our trials that Dwarf Unrivalled Wax seems to be hardier and frequently withstands unfavorable conditions better than any other wax variety. Recommended especially for market gardeners' use. (*See cut on this page and further description, page 15*) Pkt. 10c; Pt. 45c; Qt. 80c; 4 Qts. \$2.75; ¼ Bu. \$4.00

Harlequin Bean

This splendid new horticultural sort is earlier, more productive, and has much longer and more attractive pods than the well known London Horticultural or Speckled Cranberry, also hardier and a more reliable cropper. The large ovate beans are of the highest quality either green shelled or dry. Vines vigorous with large light colored leaves. Pods very long, six to seven inches, striped or splashed a deeper and more brilliant red than London Horticultural; dry beans a trifle longer. We consider this the most attractive and the finest bean of the Horticultural class. Pkt. 15c; Pt. 60c; Qt. \$1.00

Laxtonian Pea

This handsome new wrinkled pea is the largest podded of the dwarf varieties on our list. The beautiful dark green pods are similar to Gradus in shape and splendid quality, are very nearly as large in size and mature a little earlier. The vines are vigorous and productive, averaging fifteen to eighteen inches high; foliage dark green. The very long size and dark green color of the pods commend the variety particularly for market gardeners' use and the size, color and unsurpassed quality of green peas make them especially desirable for the table. We believe Laxtonian is one of the most valuable peas of recent introduction. (*See colored plate opposite and further description, page 46*) Pkt. 10c; Pt. 60c; Qt. \$1.00

Early Scarlet Turnip White Tipped Radish

The stock we offer is exceptionally attractive in its splendid coloring. The scarlet is unusually deep and affords a very distinct and pleasing contrast with the large clear white tip. (*See colored plate opposite and further description, page 50*) Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

If beans or peas are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



LAXTONIAN PEA

See opposite page.



EARLY SCARLET TURNIP, WHITE TIPPED RADISH.

TWO SELECTED CELERY SPECIALTIES

Columbia

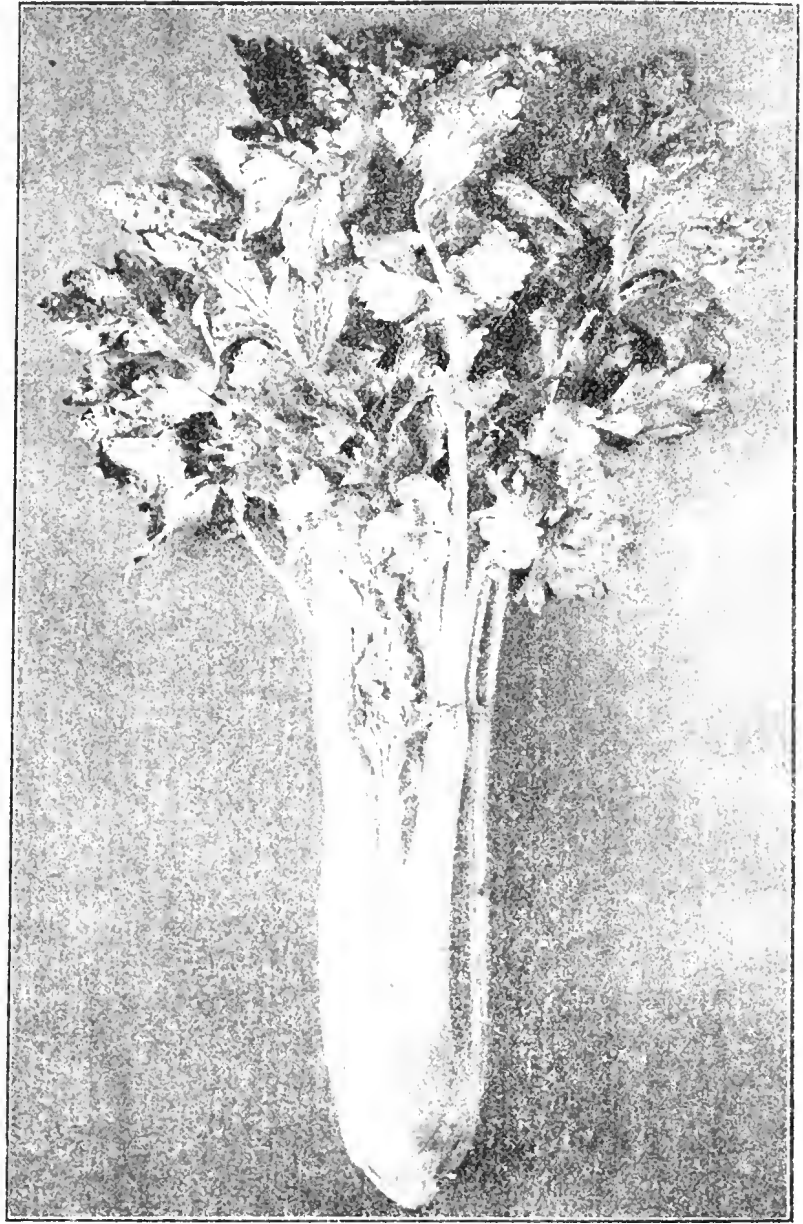
No better Celery has ever been produced than our strain of this sterling variety which was introduced by us in 1906. Those who know Celery at its best, gardeners who get the highest price for their product and connoisseurs who prefer to go without rather than eat Celery of inferior quality, have long recognized our strain of Golden Self Blanching as without a superior. To this discriminating clientele we commend our strain of Columbia as being the peer of Golden Self Blanching. It comes into use only a trifle later and is very vigorous and hardy. In beauty of golden color and solidity and size of stalk it is unsurpassed. **In delicacy of flavor Columbia is considered by many to surpass Golden Self Blanching.** Try our strain of Columbia. We consider it the very best variety for the home garden. *(See cut on this page and further description, page 28)* Pkt. 5c; Oz. 75c; 2 Oz. \$1.25; ¼ Lb. \$2.00; Lb. \$7.00

Golden Yellow Self Blanching

This standard variety is the one grown much more extensively than any other sort for early use. Our stock has been very carefully selected and grown. It is the very best obtainable. *(See cut and further description, page 28)* Pkt. 5c; Oz. \$1.65; 2 Oz. \$2.85; ¼ Lb. \$5.25; Lb. \$20.00

Copenhagen Market Cabbage

The earliest large round-headed cabbage yet introduced. The heads are of exceptionally large size for so early a variety. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, evenness of maturing, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly both for the home garden and the market gardening trade. *(See colored plate, page 23)* Pkt. 5c; Oz. 60c; 2 Oz. \$1.00; ¼ Lb. \$1.75; Lb. \$6.00



COLUMBIA CELERY

May King Lettuce

We are convinced by many trials of American and European lettuces that May King is the best extremely early heading sort yet introduced. Grown under glass this variety matures a handsome, light green head fully as early as any of the strictly forcing sorts which are generally, however, practically worthless for outdoor culture. Grown outdoors May King can be depended upon as the earliest of all to form a marketable head. Plant very compact for so large a head. Among extra early sorts it is unsurpassed in quality and we have no hesitation in recommending it for forcing under glass and as the best extra early sort for growing out of doors. *(See further description, page 36)* Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75

Giant Crimson Pepper

The earliest maturing and most productive very large sweet pepper. The plant is vigorous and upright, growing two and one-half to three feet high, larger than that of Chinese Giant and more productive. The fruits are rich deep crimson when mature. The flesh is very mild and exceptionally thick. We consider Giant Crimson the most desirable very large pepper yet introduced. *(See cut and further description, page 49)* Pkt. 5c; Oz. 45c; 2 Oz. 85c; ¼ Lb. \$1.50; Lb. \$4.50



FIELD OF ONIONS IN BLOOM AT OUR OAKVIEW STOCK SEED FARM.

Each year we grow ample quantities of stock seeds from most carefully selected pedigreed bulbs. Our equipment and experience enables us to produce onion seed that is unsurpassed.



PORTION OF WATERMELON TRIAL AT OUR OAKVIEW STOCK SEED FARM.

Time of maturing, color and distinctive marking, size, shape and quality of the fruits, as well as adaptability for shipping or for home use, are all carefully observed.

Mammoth White Cory Corn

We consider this unquestionably the best extra early corn. The ears are very large for so early a variety. They are twelve rowed, six to seven inches long, very symmetrical and handsome, seldom with any opening between the rows at the base. Grain large, broad, very white and of remarkably good quality for such an early sort. The size and beauty of this variety give it ready sale even when the market is overstocked. (See cut and further description, page 30) Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50

Golden Bantam Corn

This early sweet corn with golden yellow grain is very tender and when in best condition for the table is of exceptionally rich and delicious flavor. The ears are eight rowed, six to seven inches long and of the medium size found most suitable for the table. Our stock has been very carefully selected during several seasons and will be found decidedly superior to much that is offered. (See cut on this page and further description, page 30) Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$6.00

If corn is ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

Early Detroit Tomato

This splendid variety, introduced by us four years ago, is now generally recognized as one of the most valuable shipping tomatoes yet introduced. It is not only the most productive of the early purplish pink tomatoes but in uniformity and size of fruit, freedom from cracking and from tendency to blight it has been found to meet the most exacting requirements. Vine vigorous and very productive. Fruits very smooth, uniform in size, nearly globe shaped, firm and of excellent quality. (See colored plate, page 23, and further description, page 57) Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50

Two Ideal Shipping Melons

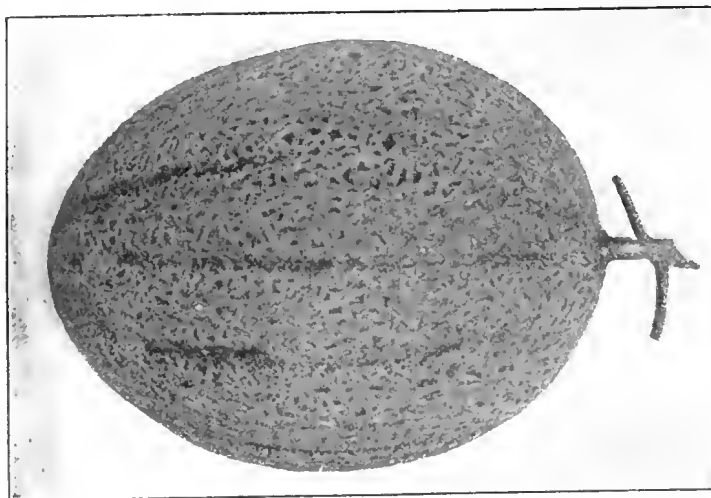
The green fleshed Netted Gem or Rocky Ford has long been one of the most popular of small or crate melons. Admiral Togo is very similar externally but the flesh is thicker, of bright orange color and of higher flavor than any green fleshed variety. Our stocks of these two melons are very carefully bred for uniformity in size, shape and the degree of netting which combine to make the most desirable fruits for shipping. We believe the seed we offer will meet the demands of the most discriminating buyers. (For further descriptions, cuts and prices, see pages 38 and 39)

Harris' Earliest Water Melon

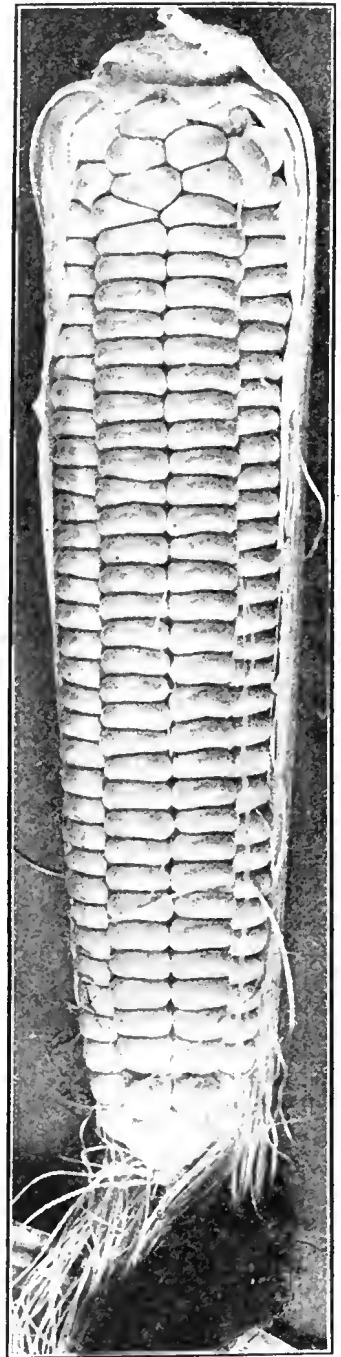
We have carefully observed this splendid variety in our trials for several seasons and are convinced that it is the very best first early melon for the home garden. The fruits are slightly oval, with irregularly mottled stripes of light and dark green, very even in shape and size. Flesh bright red, sweet and tender. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Tom Watson Water Melon

There has been an increasing demand of late for a better quality of shipping melon. This demand seems to be met to an exceptional degree by Tom Watson. The fruits are large and long, similar in shape, color and splendid quality to Monte Cristo, but averaging larger in size and with a tougher rind, making the variety especially adapted for shipping. The vines are vigorous and productive. It bids fair to become one of the most popular of all shipping melons. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00



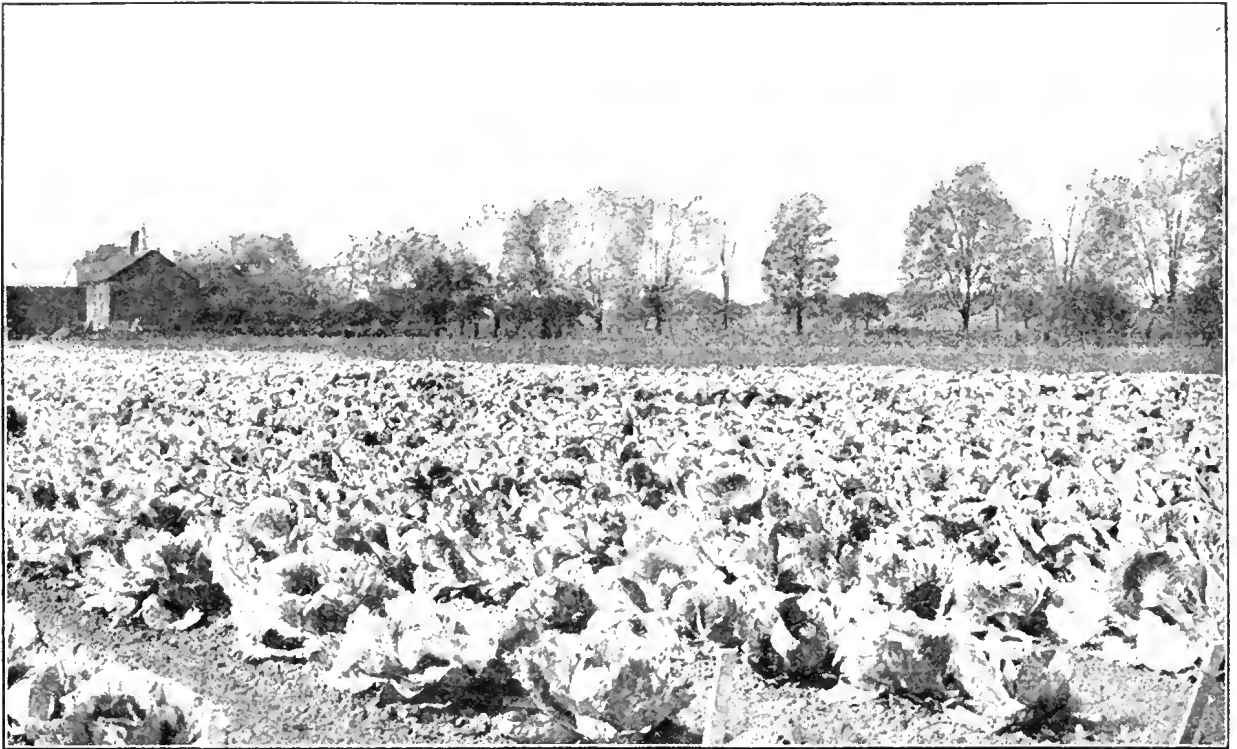
ADMIRAL TOGO AN ORANGE FLESHED ROCKY FORD



GOLDEN BANTAM

Onions

No vegetable is harder to keep true than the Onion. Not only are there the ordinary dangers from crossing but if all conditions are not ideal scallions or plants without true bulbs are very likely to be formed. Moreover, good color and shape are never attained without many seasons of the most painstaking selection; otherwise the shade in the case of reds and yellows is weak and pale, making the Onions much less attractive in the market. In uniformity and excellence of color and shape and in evenness of maturing there are few Onions in the world equal to those grown from our seed. There is none better. (See cut of Field of Onions, page 7, also pages 42, 43 and 44)



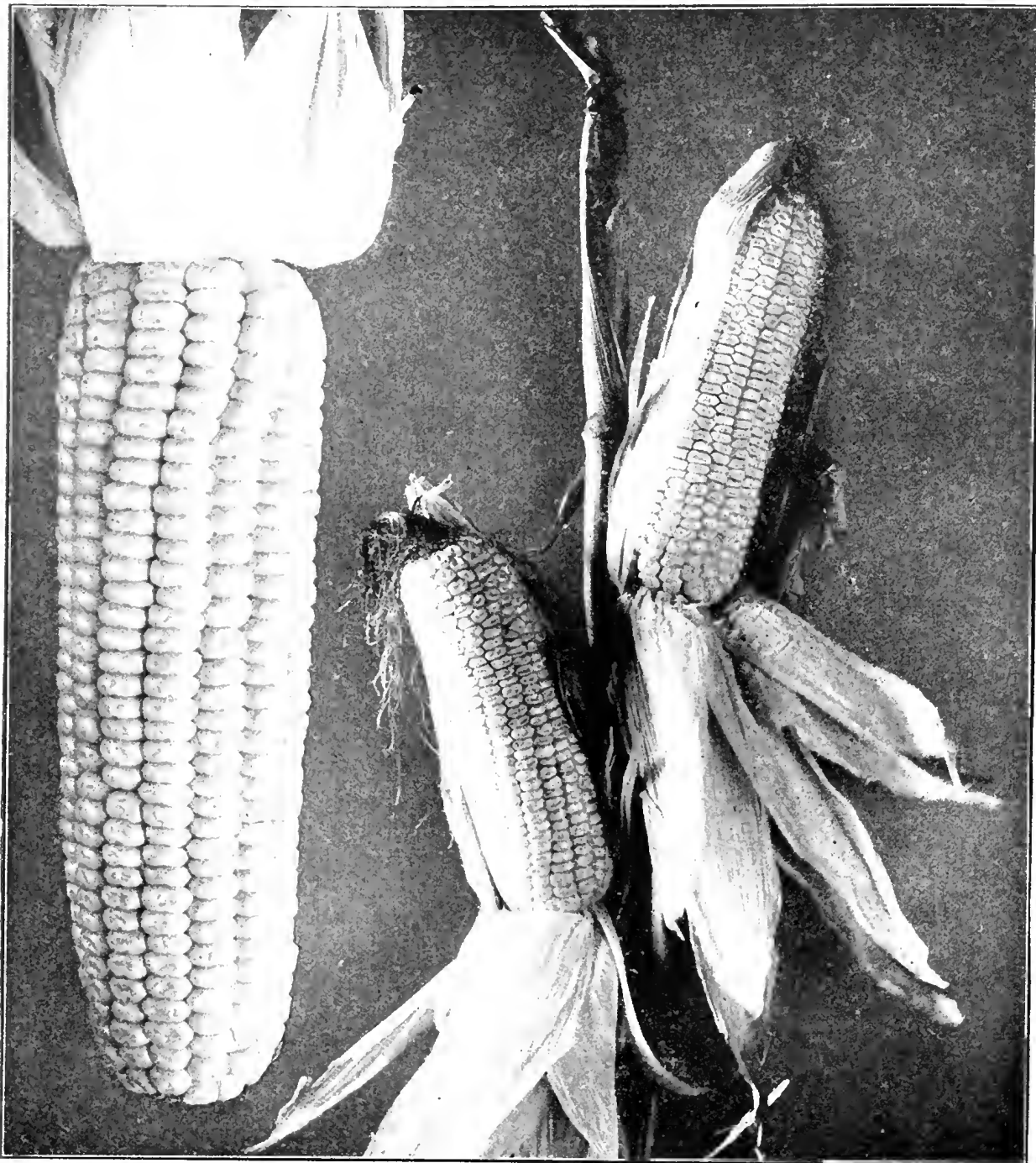
PORTION OF CABBAGE TRIAL AT OUR OAKVIEW STOCK SEED FARM.

Uniformity in habit of growth, evenness of maturing and the shape and quality of the head are all carefully observed



CORNER OF A PEA TRIAL AT OUR EXPERIMENTAL GARDENS.

Among the characteristics that are carefully noted are productiveness, height of vine and evenness of growth, the size and color of the foliage, also the size, shape and color of the pods and the quality of the peas.

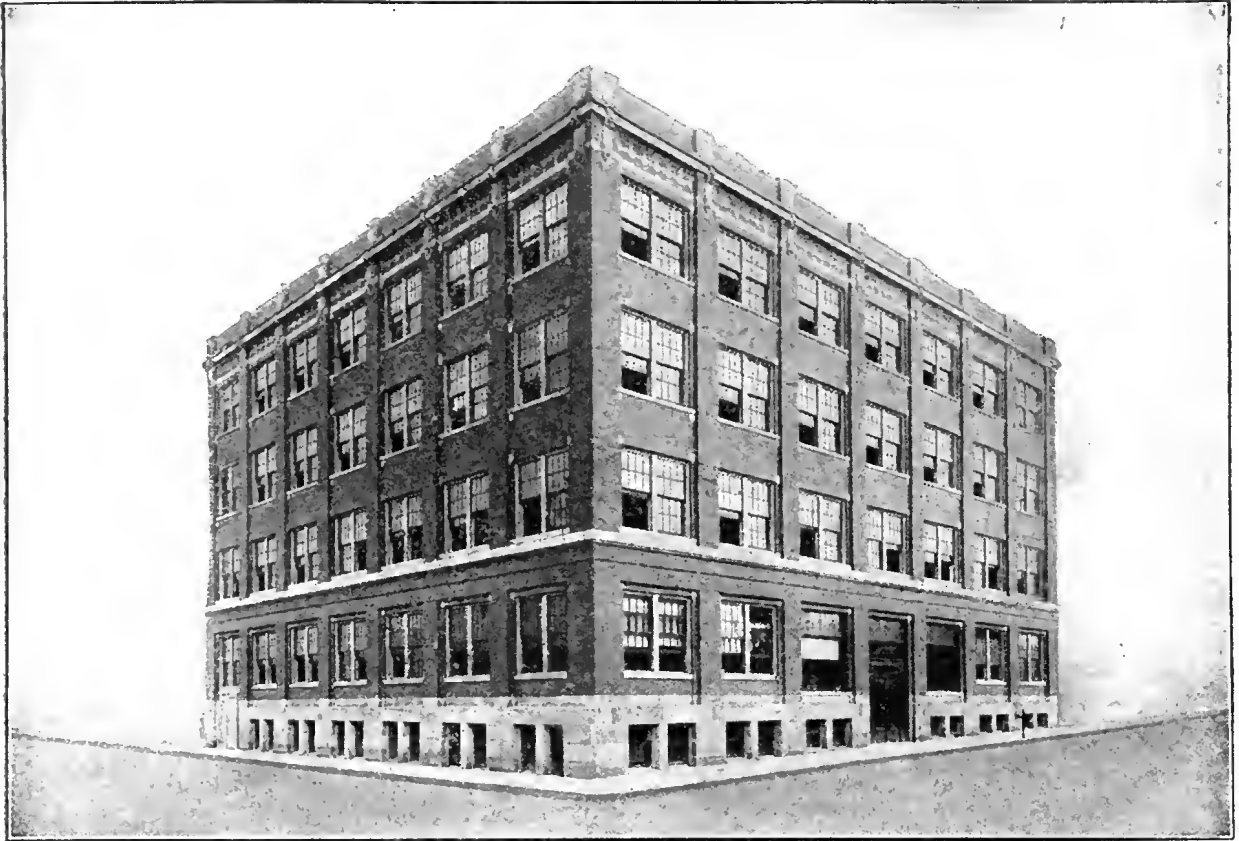


Avon Evergreen Sweet Corn

This is one of the best vegetable introductions in many years. It stands alone in its class. Those who like the old reliable Stowell's Evergreen will find in Avon Evergreen a variety better in every way. It is a trifle earlier, of superior quality, has a longer ear and thicker kernel. We have developed Avon Evergreen at our Oakview Stock Seed Farm in Avon township by crossing Stowell's Evergreen with Mammoth and apparently we have retained the desirable characteristics of both. Its being a mid-season kind allows the sunshine to develop more sugar in Avon Evergreen than is possible in strictly extra early sorts; also it has time to attain its large size. Perhaps no other variety of corn exemplifies so perfectly the possibilities in plant development. Nowhere is the difference between the product of modern corn breeding and the old roasting ear more clearly shown than in this triumph of patient skill. The market gardener who is able to supply his patrons with Avon Evergreen will have the distinction of furnishing the best evergreen corn that grows.

Ears cylindrical, about nine inches long, well filled at ends, fourteen or sixteen even rows. Grain very white, tender, delicious in sugary flavor, thick and of good depth. Stalk vigorous, seven to eight feet high. This is a splendid main crop variety for the market, the home garden or the canner. It remains long in condition for use. Try it. Pkt. 15c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; ¼ Bu. \$2.50

If corn is ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



OUR NEW WINDSOR WAREHOUSE, ERECTED 1912

The Essentials to the Production of Good Vegetables and Beautiful Flowers

Good Soil A rich, sandy loam is the best, but a fair degree of success may be secured from any soil which can be made rich and friable. Vegetables of the best quality cannot be grown on barren sand, a cold, hard, lumpy clay, nor in the shade of orchard or other trees.

Liberal Manuring A soil which does not need enriching in order to produce the best results is rarely found and very often success is in proportion to the liberality with which fertilizers have been used. Well decomposed stable manure where straw bedding has been used is the best; manure where sawdust has been used for bedding is not so good. Often wood ashes at the rate of one peck up to one bushel to the square rod will be of great benefit. Commercial fertilizers are excellent and may be used at the rate of four to twelve pounds to the square rod and the more concentrated forms, such as Nitrate of Soda, Guano, Dried Blood and Potash Salts, at the rate of one to six pounds to the rod, the larger amounts preferably in three or four applications and at intervals of about ten days. A mass or lump of any of the commercial fertilizers, even if it is but a quarter of an inch in diameter, is liable to kill any seed or young plant which comes in contact with it, so it is very important if such fertilizers be used that they be thoroughly pulverized and mixed with the soil.

Thorough Preparation Rich soil and liberal manuring will avail little without thorough preparation. The soil must be made friable by thorough and judicious working; if this is well done all that follows will be easy; if it is neglected, only partial success is possible and that at the cost of a great deal of hard work. The garden should be well plowed or dug to a good depth, taking care, if it is a clay soil, that the work is not done when it is too wet. If a handful from the furrow moulds with slight pressure into a ball which cannot be easily crumbled into fine earth again, the soil is too wet and if stirred then will be hard to work all summer. The surface should be made as fine and smooth as possible with the harrow or rake. It is generally desirable to plow the whole garden at once and to do this in time for the earliest crops, but the part which is not planted for some weeks should be kept mellow by frequent cultivation.

Good Seeds Properly Planted There is no more prolific source of disappointment and failure among amateur gardeners than hasty, careless or improper sowing of the seed. A seed consists of a minute plant enclosed in a hard and more or less impervious shell with a sufficient amount of food stowed in or around the germ to sustain it until it can expand its leaves, form roots and provide for itself. Moisture, heat and a certain amount of air are necessary to secure germination. The germinating seed first absorbs water and swells. The starchy matters gradually become soluble. The seed-coats are ruptured, the stemlet and bud emerge. The embryo lives for a time on the stored food, but gradually the plantlet secures a foothold in the soil and gathers food for itself. Germination is complete when the plantlet is able to shift for itself. A dry seed may retain its vitality and remain unchanged for years, but after germination has commenced a check of a day or two in the process may be fatal. There is no time in the life of a plant when it is so susceptible of injury from the over-abundance or want of sufficient heat and moisture as at the period between the commencement of germination and the formation of the first true leaves. It is just then that the gardener should aid in securing favorable conditions. These are:

FIRST—A proper and constant degree of moisture. The soil should always be moist, never wet. To secure this cover the seed as soon as it is planted with well pulverized, freshly prepared earth pressing it firmly over the seed. This firming of the soil is very important as it brings the particles of earth into close contact with seeds and roots, prevents the drying out of the soil and facilitates quick growth. The best results are obtained in small gardens by laying a board on the row and then walking upon the board, or the back of the hoe may be used, but for truck farms and field crops a roller is equally satisfactory.

SECOND—A proper degree of heat, secured by sowing the seed when the temperature of the soil is that most favorable to the germination of the seed of that particular plant. Too high a temperature is often as detrimental as one too low. The proper temperature for each sort may be learned from a careful study of the following pages and the experience of the most successful gardeners in your vicinity.

THIRD—Covering the seed to such a depth that while a uniform degree of heat and moisture is preserved the necessary air can readily reach the germinating seed and the tiny stem push the forming leaves into the light and air. This depth will vary with different seeds and conditions of the soil and can be learned only from practical experience. In general, seeds of the size of the turnip should not be covered with more than half an inch of earth pressed down, while corn may be an inch, beans an inch to two inches and peas one to three inches deep.

FOURTH—Such a condition of soil that the ascending stem can easily penetrate it and the young roots speedily find suitable food. We can usually secure this by thorough preparation of the ground and taking care never to sow fine seeds when the ground is wet. Occasionally a heavy or long continued rain followed by a bright sun will so bake and crust the surface that it is impossible for the young plant to find its way through it, or a few days of strong wind will so dry the surface that the young plants will be killed. In such cases the only remedy is to plant again.

Judicious Cultivation Not only should every weed be removed as soon as it appears, but the crust which forms after a rain should be broken up and the ground stirred as soon as it is dry enough to permit it. The more frequently and deeply the soil is stirred while the plants are young, the better, but as they develop and the roots occupy the ground, cultivation should be shallower until it becomes a mere stirring of the surface. The yield and quality of vegetables have often been decidedly lowered by injudiciously deep and close cultivation after the roots of the plants had fully occupied the ground. A very small garden, well cultivated and cared for, will give larger returns and be in every way more satisfactory than a much larger one poorly prepared and neglected.

HOW TO BUILD AND MANAGE HOTBEDS

For early vegetables, some provision for starting certain plants earlier than can be done in the open air is desirable; for this purpose nothing is better than a good hotbed and its construction is so simple and the expense so slight that every garden should have one. A hotbed proper not only protects the plants from the cold, but supplies bottom heat. By this term the gardener means that the soil is constantly kept several degrees warmer than the air above, that being the condition, so far as heat is concerned, which is most favorable for rapid and vigorous growth, and gardeners usually secure it by making a compact pile of some fermenting material and covering it with the earth in which the plants are to grow.

Heating Material The best heating material that is easily available is fresh horse manure, containing a liberal quantity of straw bedding. Such manure, if thrown into a loose pile, will heat violently and unevenly and will soon become cold. What is wanted in the hotbed is a steady and moderate but lasting heat. To secure this, the manure should be forked over, shaken apart and if dry, watered and allowed to stand a few days and then be forked over again, piled and allowed to heat a second time, the object being to get the whole mass into a uniform degree of fermentation and as soon as this is accomplished it is fit for use.

Sash Some gardeners use sash made especially for hotbeds and glazed with small lights cut from odds and ends and so furnished at very low rates. Such sash can usually be procured in any of our large cities and costs much less than if made to order. For garden use, however, we much prefer a smaller sash that can be easily handled and the use of larger and better glass. We recommend that for home gardens the sash be about two and one-half by four or five feet and that the glass be not less than 10x14, laid with not more than one quarter inch lap. In giving the order to one unaccustomed to the work, it would be well to state what they are to be used for, and that they need to be made like skylight sash.

The Frame This may be made of sound one-inch lumber, the back twelve to fourteen inches high, the front ten to twelve. It should be well fitted to the sash so as to leave as little opening as possible and yet allow the sash to be easily moved up and down, even when the frame is quite wet.

The Soil This should be light, rich, friable. Any considerable amount of clay in it is very objectionable. If possible, it should be unfrozen when put into the bed; for this reason it is much better to prepare it the fall before and cover the pile with enough coarse manure or straw to keep out the frost.

Making the Bed This requires careful attention as future success depends largely upon the manner in which this work is done. Having cleared away snow and ice, build a rectangular bed one foot larger each way than the frame to be used, carefully shaking out and spreading each forkful and repeatedly treading down the manure so as to make the bed as uniform as possible in solidity, composition and moisture. It is of the utmost importance that this shaking apart and evenly pressing down of the manure should be carefully and thoroughly done; unless it is, one portion will heat quicker than the other and the soil will settle unevenly, making it impossible to raise good plants. The proper depth of the bed will vary with the climate, season and the kind of plants to be raised. A shallow bed will quickly give a high temperature which will soon subside; a deeper one, if well made, will heat more moderately, but continue much longer. For general purposes, a bed about two feet deep will be best.

The bed completed, the frame and sash may be put on and fresh manure carefully packed around the outside to the very top (if the weather is at all severe, this outside banking should be replenished as it settles). The bed should then be allowed to stand with the sash partially open for a day or two to allow the steam and rank heat to pass off. The earth should then be evenly distributed over the surface of the bed and carefully leveled. The earth should not be shoveled or dumped in one or more places in the bed and then leveled; if this is done uneven settling of the bed invariably results. Care should be taken that the soil is dry and friable. If wet or frozen soil must be used, it should be placed in small piles until well dried out before spreading. The heat at first will be quite violent, frequently rising to

120 degrees, but it soon subsides and when it recedes to 90 degrees the seed may be planted. The importance of using dry soil and allowing the first rank heat to pass off is very great. Every season thousands of hotbeds fail of good results from these causes and seedsmen are blamed for failure resulting from overheating, or wet, soggy soil.

Management of the Bed The essentials for success are a steady uniform degree of heat and moisture; keeping the soil at all times a few degrees warmer than the air and the careful "hardening off" (by exposure to the air and diminishing the supply of water) of the plants before transplanting into the open air. Simple as these may seem to be, there are many difficulties in the way of securing them, prominent among which is overheating the air under a bright sun. Without experience one would scarcely believe how quickly the temperature inside of a well built hotbed will rise to 90 or 100 degrees upon a still, sunny day, even when the temperature outside is far below freezing, or how quickly the temperature will fall to that outside, if upon a windy, cloudy day the sash is left open ever so little. A rush of cold air driven over the plants is far more injurious than the same temperature when the air is still. Again, in cloudy weather, a bed will go several days without watering, but will dry up in an hour when open on a sunny day. The details of management, however, must be learned by experience, but may be easily acquired by one who gives the matter careful attention, keeping constantly in mind the essentials given above.

A Cold Frame is a simple construction of boards for wintering over young plants, Cabbage, Lettuce, Cauliflower, etc., and is also useful to protect and harden off plants from the greenhouse or hotbed before fully exposing them in the open air.

Select a dry, southern exposure, form a frame from four to six feet wide and as long as required. The back should be fourteen to eighteen inches high and the front eight to twelve, with a cross-tie every three feet. The frame may be covered with sash or cloth. Seeds of the vegetables to be wintered, sown in an open border early in September, will be ready to plant in cold frames about the last of October. The soil should be well prepared and smoothly raked before planting. Admit air freely on pleasant days, but keep close in severe weather.

These frames are particularly useful in the south and may be covered more cheaply with cloth shades than by sash. The shades are made as follows: Make light but strong wooden frames to fit over the bed and of a width to receive some common brand of cotton cloth. The cloth may be unbleached and should be stretched over and securely tacked to the frames. We have found that Plant Bed Cloth, which we have for sale, is superior to any ordinary cloth for this purpose.

Transplanting In transplanting, the main points to be regarded are: care in taking up the plants so as to avoid injury to the roots, setting out as soon as possible to prevent the air coming in contact with the roots, setting firmly so as to enable the plant to take a secure hold of the soil and shading to prevent the hot sun from withering and blighting the leaves. Where a rank or soft growth of tops has been made in hotbed it is frequently desirable to trim off some of the larger leaves before taking up to transplant so that evaporation later may be retarded. In transplanting from a hotbed, harden the plants by letting them get quite dry a day or two before, but give an abundance of water a few hours before they are taken out. It is most apt to be successful if done just at evening, or immediately before or during the first part of a rain, about the worst time being just after a rain, when the ground being wet it is impossible to sufficiently press it about the plant without its baking hard. If water is used at all it should be used freely and the wet surface immediately covered with dry soil.

Watering The best time to water plants is early in the morning or in the evening. Water may be given to the roots at any time, but should never be sprinkled over the leaves while they are exposed to bright sunshine. If watering a plant has been commenced, continue to supply it as it is needed, or more injury than good will result from what has been given. One copious watering is better than many scanty sprinklings. The ground should always be stirred with a hoe or rake before it becomes so very dry as to crack or erack.

ILLUSTRATED AND DESCRIPTIVE CATALOGUE
OF
VEGETABLE SEEDS
WITH GENERAL DIRECTIONS FOR CULTIVATION

ARTICHOKE

The seed we offer is that of the true artichoke which is a very popular vegetable in Europe. In it the edible portion is the thickened scales at the base of the flower heads or buds. The plant is very different from what is known in America as Artichoke or Jerusalem Artichoke, in which the edible portion is the tuber.

In February or March sow and transplant in hotbeds so as to give plenty of room until danger of frost is over. Then set in very rich, well drained soil in rows four feet apart and two feet apart in the row. The plants can be raised in seed beds out of doors, but in that case will not be likely to produce heads the first year. Late in the fall cut off the old tops and thoroughly protect the crowns with leaves or straw to prevent severe freezing. The second year thin the starting shoots to three of the best, which will commence to form heads about July 1st. The plants may also be blanched like Cardoons. This is done by cutting back the stems close to the ground in July, the rapidly growing shoots which then start up may be tied and blanched like celery. As artichoke plants do not yield satisfactorily after three or four years, it is best to start a new plantation as often as once in three years.

Large Globe, or Paris The best sort for general use. Plant vigorous and hardy, leaves silver gray, ribs reddish at the base and without spines. Buds large, nearly round; scales pale green, shading to violet at the base. No other variety has such a broad, thick and fleshy receptacle or bottom. Height of stem about two and one-half feet. (*Crop failed*)

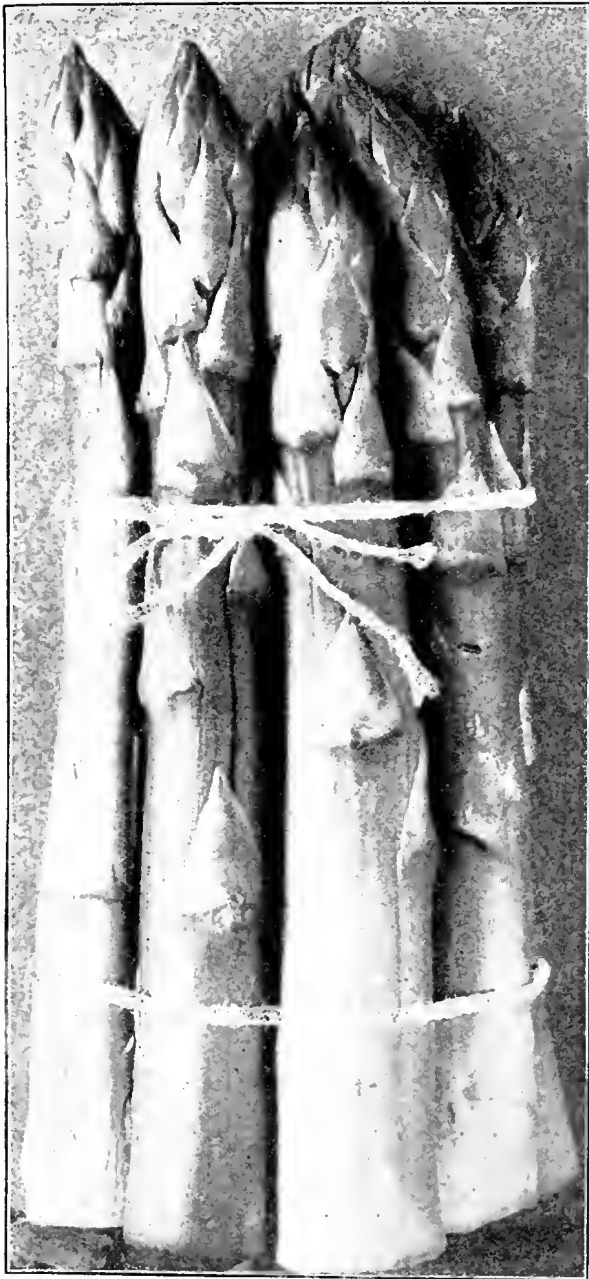
ASPARAGUS

One of the earliest and most delicious of spring vegetables. We strongly urge all those having enough available space to put in a bed for their own use, following carefully the cultural directions given below. Beds are usually formed by setting roots which can be procured of us. If you wish to grow plants from the seed yourself, pour warm water on the seed and allow it to stand until cool; pour it off and repeat two or three times with fresh warm water. Sow in spring in drills about eighteen inches apart and two inches deep in light, rich soil, planting fifteen to twenty seeds to each foot of row. When the plants are well up, thin to about one inch apart and give frequent and thorough cultivation during the summer. If this has been well done, the plants will be fit to set the next spring. The permanent beds should be prepared by deep plowing or spading and thoroughly enriching the ground with stable manure or other fertilizer; a moist, sandy soil is best. If the subsoil is not naturally loose and friable, it should be made so by thoroughly stirring with a subsoil plow or spade. Set the plants about four inches deep and one to two feet apart in rows four to six feet apart. After the plants are well started, give frequent and thorough cultivation. Early the next spring spade in a heavy dressing of manure and about one quart of salt and double the quantity of fresh wood ashes to each square rod and cultivate well as long as the size of plants will permit, or until they begin to die down. The next season the bed may be cut over two or three times, but if this is done, all the shoots, no matter how small, should be cut. After the final cutting, give a good dressing of manure, ashes and salt. Cultivate frequently until the plants meet in the rows. In autumn after the tops are fully ripe and yellow, they should be cut and burned. A bed fifteen by fifty feet, requiring about one hundred plants, if well cultivated and manured, should give the following season an abundant supply for an ordinary family and continue productive for eight or ten years.

Palmetto A very early maturing and prolific variety, producing an abundance of very large, deep green shoots of the best quality. SEED—Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c. ROOTS—Postpaid, \$1.35 per 100; by freight or express, not prepaid, 85c. per 100; \$5.50 per 1000

Conover's Colossal This sort is one of the largest and most extensively used green varieties. Shoots bright green, sometimes tinged with purple at the top, very tender and of the best quality. SEED—Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c. ROOTS—Postpaid, \$1.30 per 100; by freight or express, not prepaid, 80c. per 100; \$5.50 per 1000

Columbian Mammoth White Introduced by us in 1893. Furnishes shoots of exceptionally large size and of superior tenderness and flavor. Color clear white until four to six inches above the surface. A large proportion of the seeds will produce white shoots and the green ones can be easily rejected when setting out the permanent bed. SEED—Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c. ROOTS—Postpaid, \$1.35 per 100; by freight or express, not prepaid, 85c. per 100; \$6.00 per 1000



COLUMBIAN MAMMOTH WHITE

BEANS

No crop responds more readily to good soil and cultivation; and a light, rich, well drained loam which was manured for the previous crop is most desirable. If too rank manure is used it is apt to make the plant run too much to vine. Beans are very sensitive to both cold and wet and it is useless to plant them before the ground has become dry and warm. The largest return will result from planting in drills from two to three feet apart covering the seed one and one-half to two inches deep and thinning the plants three to six inches apart in the row. If planted in hills, make the hills about two feet apart each way. For successive plant at intervals of two weeks till midsummer. Up to the time of blossoming they should have frequent shallow cultivation but any mutilation of the roots by cultivation after the plants come into bloom is likely to cause the blossoms to blast and so cut off the crop. Cultivation should always be very shallow and it is useless to expect a crop from a field so poorly prepared as need deep stirring after planting.

We give careful attention to selecting and improving the different varieties and keeping them pure and we invite the most critical comparison of our stocks with those of any other grower.

The varieties we offer have been separated for convenience into five groups, Wax Podded Dwarf or Bush sorts, Green Podded Dwarf or Bush sorts, Dwarf Limas, Pole or Running sorts and Pole Limas. Nearly all of these sorts, except the Limas, are suitable when young for use as snaps. The low growing sorts are called Bush beans in some sections. In northern latitudes the term "butter beans" is often applied to low growing wax podded sorts. In the south, however, by "butter beans" is usually meant limas.

DWARF OR BUSH WAX PODDED SORTS

Challenge Dwarf Black Wax Continued experience has satisfied us of the great merit of this variety as the earliest wax podded bean. In all our many comparisons of this bean with other extra early sorts, we have found it the first to give a full picking of pods which were unexcelled by any in quality. Vines erect, compact, bearing the pods well up from the ground. The pods are an attractive medium yellow in color, medium sized, about four and one-fourth inches long, considerably curved, round, very fleshy, crisp, tender and stringless. Seed jet black, longer and more curved than Prolific German Wax. The best extra early wax bean for the home or market garden. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50**

D. M. Ferry & Co's Golden Wax This bean was introduced by us in 1876. Extended and careful tests have convinced us that none of the so-called improved strains is equal in general excellence to the seed we offer, which has all been carefully selected and grown from the original D. M. Ferry & Co's Golden Wax. Early, very productive. Vines erect, compact, bearing the pods well up from the ground. Pods of medium length, four and one-half to five inches, nearly straight, broad, flat, golden yellow, very fleshy and wax-like; cooking quickly as snaps, shelling well when green, and of the highest quality used in either way. Seed medium sized, oval, white, more or less covered with two shades of purplish red. The amount and shade of color on this and all parti-colored beans will be affected greatly by conditions of soil and ripening. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

Michigan White Wax This splendid variety is one of the earliest dwarf, snap beans, and may be briefly described as a white seeded D. M. Ferry & Co's Golden Wax but in several vital features it is distinctly superior to that excellent and exceedingly popular variety. The vine is a little larger, more robust and vigorous; foliage a little heavier. The handsome pods are produced in greater abundance and are very uniform in size and color which is a very attractive light golden yellow; pods four and one-half to five inches long, comparatively broad, meaty and of the same superior quality as our Golden Wax. Seed medium sized, oval, clear white. This last feature alone gives the variety a very decided advantage over all other early wax podded beans in that as snaps they cook without discoloring and thus are more attractive on the table, while as dry beans they are very handsome and quite as useful as any of the staple white beans. We believe canners have never been offered a bean so fully meeting their requirements as to earliness, color and splendid quality. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

Grenell Rust Proof Wax Vines a little more upright and harder than the Golden Wax. The handsome deep yellow pods are about five inches long, broader and flatter than Golden Wax but slightly inferior in quality. Seed similar to our Golden Wax but darker. Very popular with some gardeners. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00**

Keeney's Rustless Golden Wax Vines strong and vigorous, with short runners. Pods produced in abundance; about five inches long, stringless, light yellow, wax-like and handsome. Seed similar to a light colored Golden Wax. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00**

Refugee Wax The stock of our own growing which we offer is much superior to that commonly sold being very early. Every plant can be depended upon to produce thick, fleshy, round, stringless wax-like pods of fine quality and of a clear, light yellow color, none of the plants being green podded. Pods four to five inches in length. Seed medium sized, cylindrical, rounded at ends, yellowish drab, heavily splashed with a bluish black. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50**



MICHIGAN WHITE WAX

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

BEANS—DWARF OR BUSH**WAX PODDED SORTS—Continued**

D. M. Ferry & Co's Detroit Wax Vines very hardy, productive and erect growing. Pods light yellow, straight, broad and flat, four to four and one-half inches in length, and as nearly rust-proof as any wax bean. Seed medium sized, oval, white with more or less irregular dark brown or black markings about the eye. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Prolific German Wax, Black Seeded This variety takes the place of the old black wax or butter bean and is much better in every respect. Vines medium sized, with small foliage, very vigorous, hardy and productive, maturing about midseason. Pods medium length, four and one-fourth to four and one-half inches, borne well up from the ground, curved, cylindrical, fleshy and of a clear, light golden yellow color and remain a long time in condition for use as snaps. Seed small, oblong, jet black. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Pencil Pod Wax This comparatively new wax podded bean is particularly handsome, also medium early, hardy and very prolific. Leaves roughened. The pods are long, five and one-half to six inches, straight, round, fleshy and of a bright yellow color. They are tender, absolutely stringless, of excellent quality and are produced through a long season. One of the best sorts for home use and for near markets. Seed long, round, medium sized; color solid black. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Currie's Rust Proof Wax It has been claimed that this variety, usually midseason but sometimes earlier maturing, is absolutely rust proof and we have found it, like the Detroit Wax, as nearly rust proof as any good wax podded bean can be. Vine very vigorous, hardy and productive. Pods light yellow, similar in shape to Golden Wax, but are five and one-half to six inches long. Seed long, oval, rounded at ends, medium sized, purplish black. This is a standard market gardening sort. Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00

Dwarf Unrivalled Wax A new dwarf wax sort of exceptional value on account of its earliness, great productiveness and extreme hardiness. The vines are large and vigorous with leaves similar to Golden Wax in color and shape but are a little larger. The handsome pods of good quality, borne in abundance well up from the ground, are longer than Golden Wax and a little lighter in color, are rather narrow and somewhat flattened but fleshy, and when in proper condition for use are very attractive on the market. It usually matures soon after our Golden Wax and is sometimes as early as that variety. We have found in our trials that it seems to be hardier and to withstand some unfavorable conditions better than any other wax variety. Seed small, flat, slightly kidney shaped; color ochre-brown. Recommended especially for market gardeners' use. (See cut in Supplement, page 4) Pkt. 10c; Pt. 45c; Qt. 80c; 4 Qts. \$2.75; ¼ Bu. \$4.00

Wardwell's Kidney Wax This variety maturing a little later than the Golden Wax, yields a large crop of long, nearly straight, broad, light golden yellow, handsome pods. These are of large size, about six inches long, and are of good quality. They always command a ready sale, making the variety one of the most profitable for the market gardener. Suitable also for snaps for the home garden use. The leaves are large and slightly roughened. Seed large, flattened, kidney shaped, white with dark markings about the eye. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

Round Pod Kidney Wax This midseason variety is exceedingly handsome and very desirable, especially for snaps for the home garden. The vines are dwarf, spreading and very productive. The leaves are roughened. The pods are long and round, five and one-half to six inches, slightly curved, light yellow, wax like, stringless and of the best quality. They are uniformly perfect, an ill shaped one being rarely seen. Seed long, cylindrical, medium sized, nearly white with a little dark marking about the eye. (Very short crop; sold out)

Davis Wax A very hardy and productive variety, desirable where a wax-podded, white seeded midseason sort is wanted. Vines very vigorous. Pods invariably long, six and one-half to seven inches, light yellow, straight and handsome and when young are crisp and tender. Seed medium large, kidney shaped, clear white and excellent for baking. (Very short crop; sold out)

Scarlet Flageolet Wax This variety seems to do especially well in the south and is a favorite with many truck farmers. The vines are large, strong growing, erect and produce very long, flat, rather coarse, deep yellow wax-like pods seven to eight inches in length, which, though sometimes curved and twisted, are always handsome. Seed very large, flat, red. (Very short crop; sold out)

Violet Flageolet Wax This sort is known also as Perfection Wax. The pods are very large, similar to the Scarlet Flageolet Wax, but sometimes a little longer. When well grown this sort is one of the most showy of the wax beans. The seed is very large, flat, dark violet. (Very short crop; sold out)

Hodson Wax The vines of this variety are exceedingly vigorous, hardy and productive. The pods are handsome, clear creamy white, very long, six to seven inches, straight or slightly curved, flat but fleshy and of good quality, stringless if picked when quite young; matures its crop late. Seed long, cylindrical, uniform in shape; color dull purplish red splashed with pale buff. Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00

Crystal White Wax Distinct but not strictly a wax bean. Vines large, spreading, very productive. Leaves small. Pods greenish white with silvery shade, short, about three and one-half inches in length, curved, round or thicker than wide, with crease in the back; very fleshy and brittle. This variety is late maturing and very desirable for pickles. Seed very small, oval, white. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



WARDWELL'S KIDNEY WAX

BEANS—DWARF OR BUSH

GREEN PODDED SORTS

Extra Early Refugee An extremely early, green podded sort furnishing round, fleshy, light green pods slightly curved, of medium size, about five inches long and of fine quality. Vines a little smaller, more upright, and leaves a little larger than those of the late Refugee; seed much the same in shape and color. Our stock is uniform, the vines ripening pods well together and long before those of the Refugee or Thousand to One. An excellent snap bean for early markets and stands shipment well. Seed long, cylindrical, rounded at ends, drab, nearly covered with dark purple blotches. Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50

Round Yellow Six Weeks, Improved Round Pod While this does not differ from Early Yellow Kidney Six Weeks in size or general appearance of vine, pods are rather light green, shorter, about four and one-half inches, much thicker, fleshier and mature earlier. Seed medium sized, round, light yellow with slightly darker marking about the eye. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$5.50

Early Yellow Kidney Six Weeks The vines of this variety are large, vigorous, very erect and quite productive, with large leaves. The pods are long, about six inches, straight, flat, handsome, rather light green and when young are of good quality for snaps. This sort is early maturing and a fine shipper. Seed medium sized, long, kidney shaped, light yellow with small brownish circle about the eye. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$5.50

Early Mohawk This sort is so much hardier than the others that it can be planted earlier and often will furnish beans fit for use before any other kind. Vines large, stout, with large coarse, dark green leaves. Pods medium dark green, long, six to six and one-half inches, straight, coarse, flat, with long tapering points. Seed long, large, kidney shaped, variegated with drab, purple and brown. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$5.50

Extra Early Round Pod Red Valentine For snaps there is nothing superior to this variety among the dwarf green podded sorts both for the home and market garden and many prefer it to the wax varieties. Vines medium to large, erect, with dark green leaves. Pods medium length, about four and one-half inches, of medium green color, curved, cylindrical, with crease in back, very fleshy, crisp and tender. Seed long, of medium size and unsymmetrical in shape, purplish pink splashed with pale buff. Lack of symmetry in the seed of this variety is an indication of superior fleshiness and good quality in the pods. We know of no stock of Red Valentine which can be compared with that we offer in uniformly high quality of pod. We have carefully tested both in trials and in large fields many different strains of Valentine offered under slightly varying names, each claiming to be a great and distinct improvement and have found none that compared with our stock which combines in the highest degree all the good qualities of the sort. Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50

Black Valentine A very hardy and productive green podded sort with strong, vigorous vines. Pods rather flat but very handsome, much longer, straighter, less fleshy than the Red Valentine, the plant a little more spreading, and in season a little later. A large crop can be depended on and the product makes a very attractive appearance on the market. Pods medium dark green, about six inches long. Seed small to medium sized, black, oblong, slightly flattened. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$6.00

Stringless Green Pod A very desirable green podded snap sort for the home garden and largely grown for the market. The vine is vigorous, spreading and productive. The pods are medium green, five to six inches long, larger than those of the Red Valentine but are quite as fleshy, of equally high quality and remain crisp and tender longer. They mature a little later. Seed of medium size and length, yellowish brown. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Giant Stringless Green Pod An exceedingly productive and very handsome sort. The vines are vigorous and spreading. The pods are medium green, mature a few days later than those of Stringless Green Pod, average about one-fourth inch longer and more nearly straight. The quality is very good for snaps for home use; suitable also for the market. The seed is long, slender, yellow. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Tennessee Green Pod This dwarf, early intermediate snap bean, although comparatively new to the seed trade, is highly popular in some sections of the south and wherever known is spoken of in terms of highest praise. The vines are large, somewhat spreading and prolific. The foliage is dark green, with leaves large and crumpled. The pods are very long, often six to seven inches, flat, irregular in shape, bright but rather dark green and of excellent quality. See 1 of medium size, oval, flat, yellowish brown in color. After careful selection we have developed a uniformly true stock of the variety which is giving splendid satisfaction. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Dwarf Horticultural The vines of this variety are very productive, compact and upright in growth, and with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick, curved, with splashes of bright red on a yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. This is one of the best sorts for green shell beans for home and market. Seed large, oval, plump, pale buff splashed with deep red. Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50



GIANT STRINGLESS GREEN POD

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart, for charges.

BEANS—DWARF OR BUSH

GREEN PODDED SORTS—Continued

Refugee, or Thousand to One Vines very large, spreading, exceedingly hardy, with many small, smooth light green leaves; very productive, highly esteemed for late planting and for canning and pickling. Pods about five and one-fourth inches long, cylindrical, slightly curved, medium green when in condition for use as snaps but as they mature becoming light yellow, sometimes splashed with purple; of good quality as snaps. Seed long, cylindrical, light drab, thickly dotted and splashed with purple. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50**

The following four Dwarf or Bush sorts are also extensively planted as field beans.

Early Marrow Pea, or Dwarf White Navy A variety developed in western New York. Is a sure cropper and not only more prolific than the common white bean but also of better quality. Vine large, spreading, with small, thin leaves and occasional runners, ripening its crop early and all at once. Pods light green, straight, short, about three and three-fourths inches, but usually containing six beans. The beans are small, oval, white, handsome and of superior quality. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50**

Vineless Marrow A splendid bean for field culture. Plant large, strong and vigorous, but compact and without runners, bearing its crop in the center and well up from the ground. Pods light green, about five and three-eighths inches long. The dry beans are medium large, ovoid, very white, cook quickly and are of exceptionally good quality. A wonderfully prolific and valuable sort. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.75**

Large White Marrow, or Mountain Vines large, slender, spreading, with short runners and small leaves; very prolific. Pods broad, about five and one-half inches long, medium green, changing to yellow; seed large, ovoid, clear white, cooking very dry and mealy. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.75**

Royal Dwarf Kidney Plant upright, very large, branching, with large, broad leaves. Pods rather late in maturing, about six inches long, dark green, coarse. Seed large, white, kidney shaped, slightly flattened and of excellent quality, green or dry. Also called White Kidney. (Sold out)

DWARF LIMAS

This comparatively new class of limas cannot be recommended too highly. The beans can be grown and gathered much more easily than the pole limas as the vines require no support. They can also be grown closer together than those of any pole variety. Dwarf limas are fully equal in quality to pole limas and as a rule are earlier maturing.

Do not plant till the ground is dry, weather warm and danger of frost is over. If possible select rich, light soil. Plant in drills two to three feet apart dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two to three feet apart one way and two to two and one-half feet the other and plant four to six beans in a hill. Hoe often but only when the leaves are dry.

Bush Lima, or Dwarf Sieva (HENDERSON'S) A dwarf form of the Small White Lima, valuable on that account, and because of its extreme earliness and productiveness. Vines are without runners but continue to grow and set pods until stopped by frost. Leaves small and very dark green, borne in clusters and often above the foliage. Pods medium dark green, short, about two and three-fourths inches, flat and containing two to four beans which are of excellent quality either green shelled or dry. Seed small, flat and white with slight tinge of yellow. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50**

Burpee's Improved Bush Lima This is a little the earliest maturing of the large seeded limas. Vine vigorous, productive. Pods medium green, very large, about five inches long, thick and containing usually four beans, which are unusually thick, of largest size and of excellent quality. Seed very large, thick and usually shows a greenish white tinge which is generally considered an indication of superior quality. One of the best lima beans yet introduced. **Pkt. 10c; Pt. 35c; Qt. 60c; 4 Qts. \$2.00; Bu. \$12.00**

Dwarf Large White Lima A bush form of the true Large White Lima and of equally good quality. Plants uniformly dwarf, but very productive. Pods are medium green and as broad, very nearly as long as those of the pole variety of Large White Lima and a little more curved. They contain from three to five very large, flat beans of the best quality. Seed very large, flat, white with slight greenish tinge. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00**

Fordhook Bush Lima An improved dwarf lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods, which are produced in large clusters, are medium green, about four and three-fourths inches long and each contains three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. Seed large, irregularly oval in shape, very thick, white with greenish tinge. We consider this a decided acquisition to the dwarf limas, possibly the best of the class. **Pkt. 10c; Pt. 35c; Qt. 60c; 4 Qts. \$2.00; Bu. \$12.00**

Kumerle Bush Lima A dwarf form of the Challenger Lima, having the same thick pods and large, thick beans which have made the Challenger so popular. The plant, while fully as dwarf, is hardier and matures its crop at about the same time as the Dwarf Large White Lima. Pods medium green, about three inches in length. The seed is large, oval, very thick, white with greenish tinge. This variety is of most pronounced lima flavor and is considered by some the best of the dwarf limas. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00**



REFUGEE, OR THOUSAND TO ONE

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

BEANS—POLE OR RUNNING

Pole Beans are even more sensitive to cold and wet, as well as to droughts and hot winds, than the dwarf varieties, but are of superior quality and productiveness. After settled warm weather, set poles four to eight feet long in rows four feet apart and extending north and south, the poles being three feet apart in the row. Let the poles slant slightly toward the north. Set in this way the vines climb better, and the pods are straighter and more easily seen. Around each stake plant five to eight beans one and one-half to two inches deep. When well started thin to four plants, and see that they all climb around the pole in the same way, for they will not grow if tied up in the opposite direction. Another plan is to plant in rows thickly enough so that there will be one plant to eight or ten inches. Set posts five feet high firmly at each end of the rows and drive stakes made of 2x2 lumber at intervals of about sixteen feet along the rows. Stretch a wire, size number 10 or 12, between the posts along each row, and fasten it to the tops of the stakes with wire staples. Run a lighter wire or twine along the bottom about six inches from the ground and fasten to the posts and stakes with wire staples. Between these two stretch a wire or twine wherever there is a plant. The vines will run up these until they reach the top wire, when they will care for themselves. Another way is to omit the bottom wire and stick small stakes two to six inches in the soil and fasten to top wire.

White Crease Back Especially valuable for its extreme earliness and its habit of perfecting all of its pods within a short time. Vines medium sized, vigorous and in good soil wonderfully productive, bearing round, fleshy pods in clusters of from four to twelve. Pods of medium length, usually about five inches, comparatively straight, attractive light green, of the best quality as snaps and stand shipping better than most sorts. The beans are too small to be of much value when shelled green, but are of very superior quality baked. Seed small, oval, white. The stocks we offer are much more even than many on the market. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00**

Kentucky Wonder Also known as Old Homestead. We believe this variety is the most practically useful of the green podded pole beans suitable for use as snaps. It is an early, very prolific sort, with showy pods which are of most excellent quality. The vines are vigorous, climbing well and very productive, bearing pods in large clusters. The pods are medium light green, very long, often reaching nine or ten inches, curved and twisted, nearly round and very crisp when young, becoming very irregular and spongy as the beans ripen. Seed long, oval, slightly flattened, dull colored. For several years past our sales have been limited only by the quantity we were able to produce. The quality of our stock is unsurpassed. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$7.00**

St. Louis Perfection White An early maturing, white seeded pole bean, very desirable for snaps and certainly unsurpassed green shelled. Vine vigorous and very productive. Pods medium green, round, very long, often reaching eight to nine inches, irregular in shape and quite stringless. The beans when shelled green are large, very tender and white, a very desirable feature when comparison is made with the colored beans of other varieties of this class. Seed medium long, oval or well rounded, solid white. Many gardeners consider this bean by far the most desirable pole bean yet offered. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00**

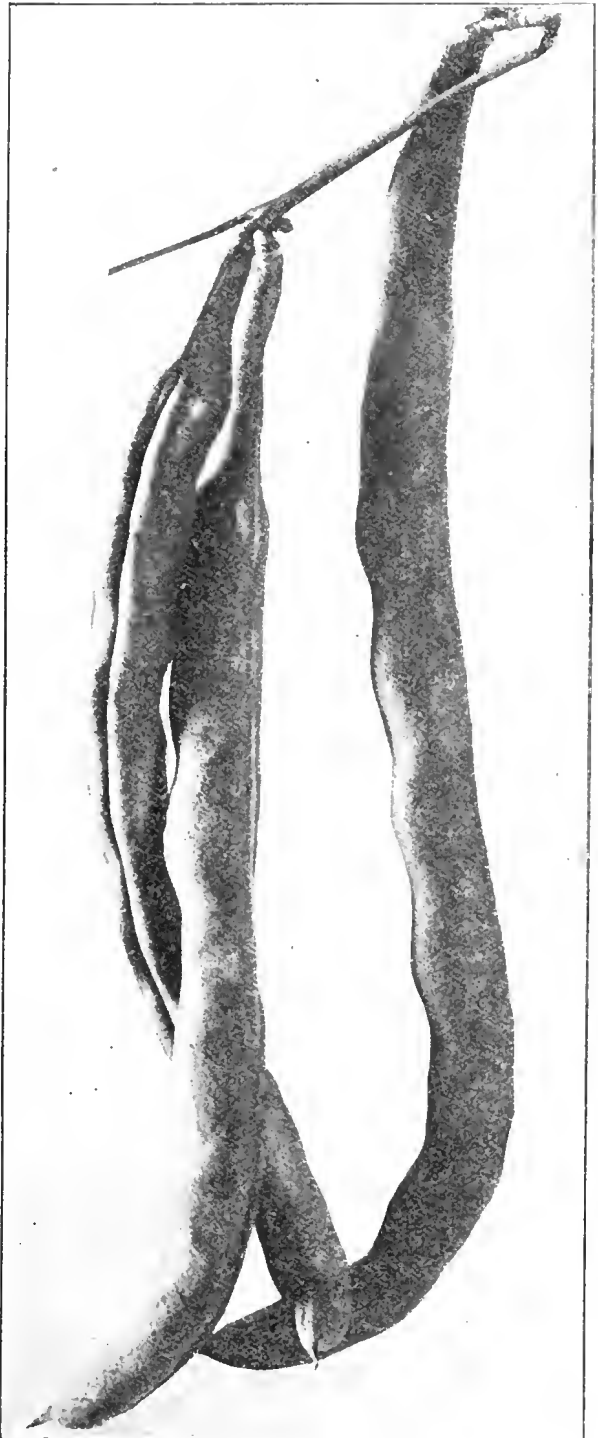
Red Speckled Cut Short, or Corn Hill An old variety, very popular in the central and southern states for planting among corn. It will give a good crop without the use of poles. Vines medium sized, but vigorous, twining loosely with dark colored leaves. Snap pods medium green, short, three to three and one-half inches in length, straight, flat to oval, fleshy and of good quality. The pods as they mature become light yellow tinged with red, the beans showing distinctly through the pods. Seed nearly oblong, cut off diagonally at the ends, light grayish white, covered about the eye and at one end with reddish or purplish brown, and irregularly dusted over most of the surface. **Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$6.00**

Dutch Case Knife Vines moderately vigorous, climbing well, but twining more loosely than some and so may be used for a corn hill bean of medium season. Leaves large, crumpled; pods very long, seven to eight inches, flat, irregular, medium green, becoming lighter as they mature. Seed broad, kidney shaped, flat, clear white and of excellent quality whether used green or dry. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50**

Kentucky Wonder Wax This remarkably vigorous growing, wax podded pole bean is very similar to the green podded Kentucky Wonder but the very long pods are a little broader, very fleshy and quite stringless as snaps. The pods are attractive light yellow and when mature are often eight to nine inches in length. Seed medium sized, oval, flattened, very irregular, dark brown. The seed even from the most matured crops is usually somewhat shriveled in appearance. Its earliness and hardness commend it as a pole bean well adapted even for northern latitudes. Its very large, golden yellow pods are certainly handsome in appearance and are unexcelled in quality by any wax podded bean of its class. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$8.50**

Early Golden Cluster Wax A well known early and very beautiful sort. One of the best wax-podded snap pole beans. Vines large, strong growing, vigorous, hardy; leaves large, light green, crimped; pods six to eight inches long, borne in abundant clusters, each containing from three to six pods varying in color from golden yellow to creamy white. Pods very broad, thick and fleshy, deeply creased along the edge to which the beans are attached, of very best quality and stay in condition for use a long time. Seed medium sized, flattened, oval, dull white. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00**

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



KENTUCKY WONDER

BEANS—POLE OR RUNNING—Continued

Harlequin Earlier, more productive, and with much longer and more attractive pods than the well known London Horticultural or Speckled Cranberry, also earlier and a more reliable cropper. The large ovate beans are of the highest quality either green shelled or dry. Vines vigorous with large light colored leaves. Pods very long, six to seven inches, striped or splashed a deeper and more brilliant red than London Horticultural; dry beans a trifle longer. We consider this the most attractive and the finest bean of the horticultural class. **Pkt. 15c; Pt. 60c; Qt. \$1.00**

London Horticultural, or Speckled Cranberry Vines moderately vigorous with large, light colored leaves. Pods medium length, four and one-half to five and one-half inches, broad, pale green when young, becoming as they mature yellowish green striped or splashed with red. Beans large, ovate, flesh colored, splashed and spotted with wine-red and of the highest quality, either green or dry. One of the best of the Horticultural varieties as a general purpose late green shell bean for home or market. Many like this sort better than limas, known also as Wren's Egg. **Pkt. 10c; Pt. 25c; Qt. 35c; 4 Qts. \$1.25; Bu. \$6.50**

Lazy Wife One of the best of the later green podded pole beans for snaps or green shell use. The medium green pods, borne in large clusters, are five and one-half to six and one-half inches long, broad, thick, fleshy and entirely stringless. When young they have a rich, buttery flavor which is retained until they are nearly ripe. The dry beans are excellent for winter use. Seed white, medium size, slightly oval or nearly round. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

POLE LIMAS

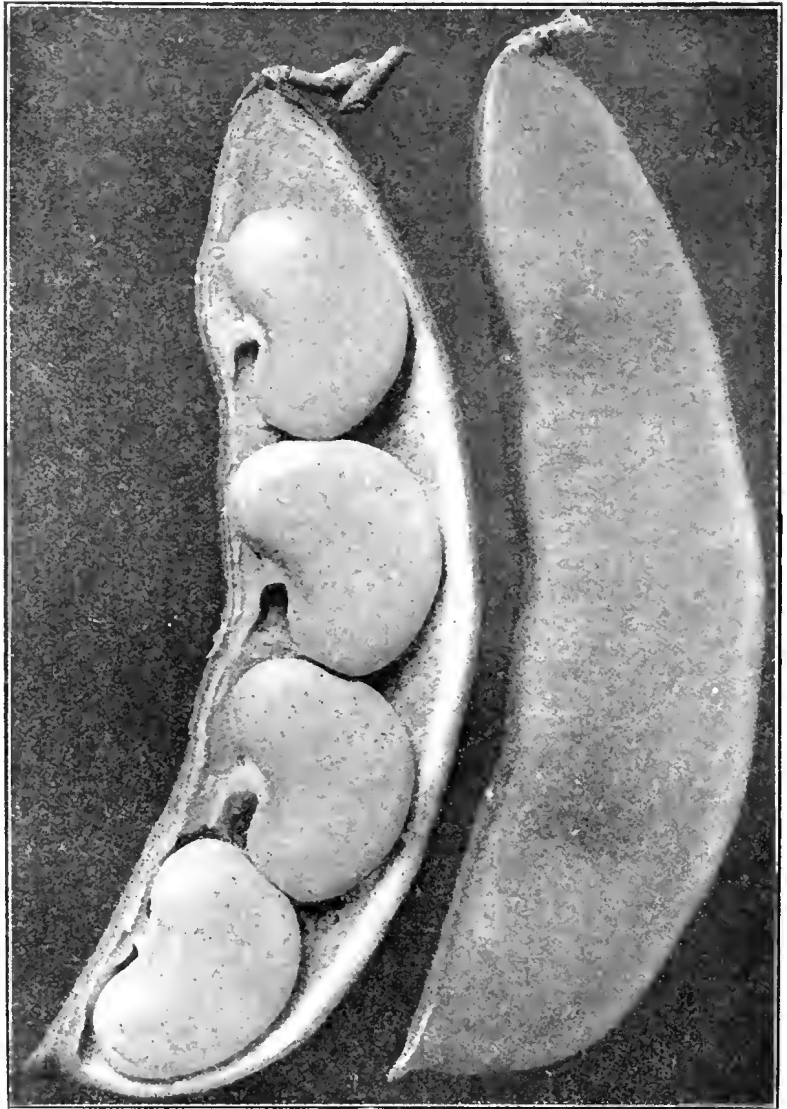
The culture is the same as for other pole beans except that being more tender, the seed is usually planted one to two weeks later. In some classes of soil it will be found of advantage to place the beans on edge with the eye down as when planted in this manner they germinate and come up more readily.

Seibert's Early Lima Introduced by us in 1895. In earliness, ease of shelling, size, beauty and quality of the green beans, this variety leads all other early limas for either the garden or market. Vines vigorous, very productive and continues so from the very first to the last of the season; so that although the pods rarely contain more than four beans the total yield is enormous. Pods medium green, large, flat, about five inches long, moderately curved. Green shelled beans very large, very tender and of finest quality. Seed ovoid, flat with slight greenish tinge. The beans shrink in drying so that the seed is about the size of the Large White Lima. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

Small White Lima, Carolina or Sieva Vines vigorous, with many short branches, and sometimes grown without poles; very early, productive, with small, smooth, dark green leaves. Pods dark green, short, about three inches, curved, flat. Seed small, flat, white with slight tinge of yellow. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50**

Ideal Pole Lima One of the largest and most valuable lima beans yet introduced. Vines unusually vigorous, very productive, bearing large clusters of broad medium green pods each six to seven inches long, and containing four to six large beans of most excellent quality. While the variety matures a little later than Seibert's Early Lima, the pods are much larger and no lima grown is more attractive. Seed large, ovoid, flat, white with slight greenish tinge. Splendid for market gardeners. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

King of the Garden Lima Vines very vigorous and productive. Pods medium dark green, very large, five to six inches long, broad, flat, filled with four or five immense white beans of finest quality. On account of its large pods it is a favorite with market gardeners. Come into bearing earlier and will make larger pods if not more than two vines are left to grow on a pole. Seed very large, ovoid, flat, white, with slight greenish tinge. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**



CARPINTERIA POLE LIMA

Carpinteria Pole Lima Vine strong, vigorous, producing an abundance of fine, large, medium green pods, five to six inches long, usually closely filled with four beans of largest size, much thicker than the average pole lima. Color distinctive in having a decided greenish tint, an indication of very finest quality. When cooked the beans are very thin skinned, extremely tender and of finest flavor. Seed very large, exceptionally thick, retaining the distinctly green tinge. Splendid for the home and market garden. **Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00**

Large White Lima Too late for the extreme north and is being supplanted by Seibert's Early Lima. Vine tall, vigorous, but slender; leaves medium sized, smooth, medium green. Pods borne in clusters, five to five and one-half inches long, broad, very thin, medium green. Seed very large, ovoid, flat, white with slight tinge of green. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50**

Challenger Lima Vines stout, vigorous and productive. Pods medium green about four inches long, shorter and comparatively thicker than those of the other pole limas and contain four to five beans which are large, thick, white and of the best quality. One of the most popular of the later varieties with the New York market gardeners. Similar to, but better than Drees's Improved Lima. Seed smaller and thicker than the other pole limas, ovoid, white with slight greenish tinge. **Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00**

If beans are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

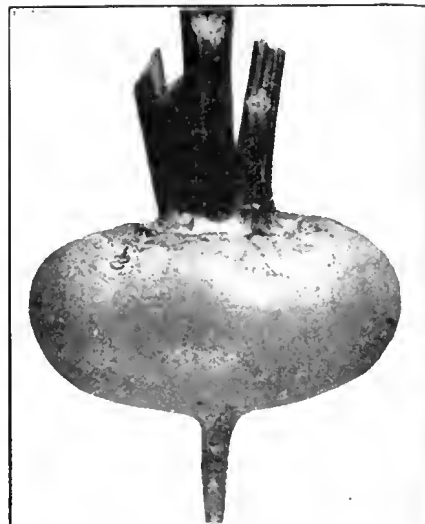
BEET

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

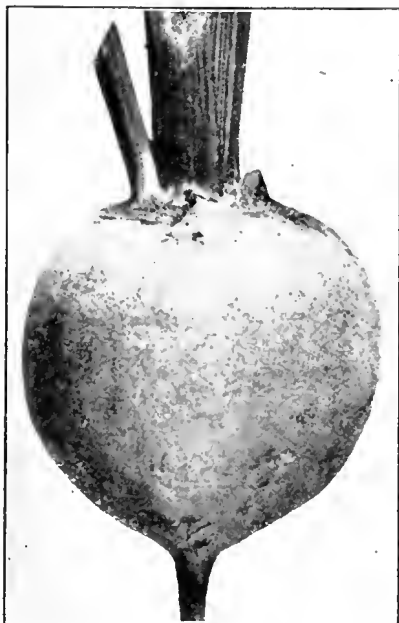
Extra Early Egyptian Blood Turnip The best variety for forcing and excellent for first early crop out of doors, being very early, with small tops. Leaves dark green, shaded and veined with dark red. Root very dark red, moderately thick, a little rounded on top, distinctly flat on the bottom, and about two inches in diameter when mature. Flesh dark purplish red, zoned lighter shade; firm, crisp and tender. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Crosby's Egyptian The name of this variety is misleading, as it resembles the Egyptian only in its extreme earliness. Tops small. The roots are flattened globe shaped and very smooth. Exterior color of root bright red. The flesh of our strain is bright vermilion-red, zoned with a lighter shade, very sweet, tender and of excellent quality. One of the best for early planting outdoors. It becomes fit for use sooner than any other variety but it is not as well suited as the Egyptian for forcing in hotbeds or for transplanting. Our stock is exceptionally uniform in shape and color, and is earlier than the older strains which are similar in shape but show the purplish red color. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Detroit Dark Red We believe this is the best beet for the market and home garden, and on account of its uniformly deep rich color the most desirable for canning. Tops small, upright in growth. Leaves dark green, shaded with red. Root medium sized, globular or nearly round, very smooth and of dark blood red color. Flesh is deep vermilion-red, zoned with a lighter shade of the same color. Careful comparisons with all the prominent varieties on the market in this country and in Europe prove that the Detroit Dark Red Beet is the most uniform in shape and size and the most attractive in color. It is unsurpassed in quality. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50



EXTRA EARLY EGYPTIAN BLOOD TURNIP



DETROIT DARK RED

Early Eclipse An early beet especially desirable for the home garden. Tops small. Root bright deep red, smooth, round or slightly top shaped, with a small tap and small collar. Flesh bright red, zoned with pinkish white, very sweet, crisp and tender, especially when young. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Edmand's Early Blood Turnip Tops short and rather spreading; ribs and leaf stalks dark red; blade of leaf bright green, often with wavy edge. Root nearly round or slightly flattened; exterior color dark red, interior color purplish red with little zoning; crisp, tender, sweet and an excellent keeper. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Early Blood Turnip (Improved) An extra selected stock of Blood Turnip, having larger, coarser tops and root than Detroit Dark Red and requiring a considerably longer time to mature. Root nearly round or slightly flattened. Flesh deep red, zoned with lighter shade, sweet, crisp and tender. Excellent for summer and autumn use. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Bastian's Early Blood Turnip An early, bright red, turnip shaped beet of very good quality. Tops medium sized; leaves bright green. Root thick, slightly top shaped, medium sized tap. Flesh light purplish red, zoned almost white; crisp and tender. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Dewing's Blood Turnip Tops medium sized; leaf stem and veins dark red; leaf green. Root dark purplish-red, turnip shaped with medium sized tap. Flesh carmine with purple tinge, zoned with lighter shade. A medium early sort, tender, sweet and a good keeper. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Early Turnip Bassano An early, quick growing variety, excellent for the table, and especially adapted for use as greens. Tops large. Root large, light red, flattened turnip-shaped with rather heavy tap. Flesh pink, zoned with creamy-white; very sweet and tender when young. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

D. M. Ferry & Co's Half Long Blood A half long, deep red beet, by far the best variety for winter and spring use. Tops very upright with exceptionally smooth leaves. Root deep red, half long, very smooth and uniform in shape. Flesh very deep, rich red, sweet and tender. Excellent to slice for pickles. It retains its good quality longer than other sorts. Our stock is distinct and very uniform. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Long Dark Blood A standard late variety of very good quality which keeps well through the winter. Root smooth, slender, growing half out of the ground, with few or no side roots and when mature about ten inches long. Exterior color very dark purple, almost black; flesh dark red, tender and sweet. An excellent sort for pickles. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Swiss Chard, or Sea Kale Beet A variety of beet grown exclusively for its large, juicy, tender, light colored leaves and leaf stalks, which are much superior to those of other beets for use as greens. Later in the season the broad, flat, wax-like leaf stems are cooked or pickled. This variety is worthy of a place in every garden. Known also as Silver or Spinach Beet. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.



D. M. FERRY & CO'S HALF LONG BLOOD

SUGAR BEET

Desirable not only for the manufacture of sugar, but are invaluable for stock feeding and when small may be used for the table. The best soil is a rich, friable sandy, or clayey loam. Rich, mucky soils will often give an immense yield of roots which, though excellent for feed, are of little value for sugar making. Plant in drills two to two and one-half feet apart, twelve to twenty seeds to the foot. The seed should be well covered with about one to one and one-half inches of soil pressed firmly over it. Cultivate frequently. When about three inches high thin to about ten inches apart.

FOR SUGAR MAKING

Jaensch's Victrix

Unquestionably the most highly developed strain of beet for sugar making. Roots of medium size, white with tinge of gray, half long, and very uniform in type. Flesh white, exceptionally rich in sugar content. Per Lb. 65c, postpaid. Lots of 5 Lbs. to 25 Lbs. by express, at purchaser's expense, 50c per Lb.



IMPROVED MAMMOTH LONG RED MANGEL WURZEL

Vilmorin's Improved

One of the richest in sugar content of the sorts in cultivation. It will do better on new lands than any other, suffers less from an excess of nitrogen and will keep the best. Tops of medium size, with smooth, bright green leaves. Roots of medium size, similar in appearance to Jaensch's Victrix; flesh white, often yielding from ten to sixteen tons per acre. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Klein Wanzleben

Roots a little larger than Vilmorin's Improved and a little hardier and easier grown. Tops rather large; leaves slightly waved. Yields from twelve to eighteen tons per acre. Probably the best sort for the experimenter to use. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

FOR STOCK FEEDING

Giant Feeding Sugar Beet, or Half Sugar Mangel

A strain of beets very desirable for stock feeding, affording not only a very large crop much easier to harvest than other sorts but also having higher nutritive value, being especially rich in sugar. Roots light bronze green above ground, grayish white below, with white flesh. On account of growing partly out of the ground and the long ovoid shape the crop can be harvested and stored easily and at less expense than any other root crop. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.



GIANT FEEDING SUGAR BEET, OR HALF SUGAR MANGEL

MANGEL WURZEL

Long Red A large, long variety grown for stock feeding. The roots are light red, grow well out of the ground and are easily harvested. Flesh white, tinged with rose. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

D. M. Ferry & Co's Improved Mammoth Long Red Roots very large, uniformly straight and well formed, and comparatively thicker than the common sort. Flesh white tinged with rose. Under careful culture enormously productive. Our stock will produce the largest and finest roots which can be grown for feeding stock and is vastly superior to many strains offered under other names, such as Norbitan Giant, Colossal, Monarch, etc. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Yellow Leviathan Roots long fusiform, growing about one-half out of the ground and very easily harvested. Color light gray tinged with brown above ground, yellow below. Flesh white, sometimes slightly tinged with yellow. Tops green, comparatively small; collar small. The roots have less tendency to become woody than most sorts. An exceedingly productive variety. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Golden Tankard Tops comparatively small, leaf stalks and veins distinctly tinged with yellow, neck small. Roots large, ovoid, but bottom usually of larger diameter than top, light gray above ground, deep orange below. Flesh yellow, zoned with white. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

BROCCOLI The heads resemble somewhat a coarse cauliflower and the culture is the same in all essentials as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower.

Early Large White French This is probably the most useful variety. Plants very hardy, vigorous and easily grown. Heads white, compact, hard and of good quality. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50

BRUSSELS SPROUTS This vegetable is used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. Culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

Improved Half Dwarf Probably the most useful variety, plants growing one and one-half to three feet high, very hardy and giving compact, round sprouts of large size and good quality. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

CABBAGE

For many years cabbage seed has been a leading specialty with us. Our cabbage seeds are all grown from approved stock seeds which are largely of our own development on our Oakview Stock Seed Farm; they are all grown under our personal inspection and supervision. There is no seed more reliable, nor can any be more implicitly depended upon to give planters uniformly satisfactory results.

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

The late autumn and winter varieties may be sown from the middle to the last of spring and transplanted when four to six inches high. If the weather and soil are dry the late sowings should be shaded and watered in order to hasten germination, but it is important that the plants should not be shaded or crowded in the seed bed, or they will run up weak and slender and will not endure transplanting well. Cabbages should be hoed every week and the ground stirred as they advance in growth, drawing up a little earth to the plants each time until they begin to head, when they should be thoroughly cultivated and left to mature. Loosening the roots will sometimes retard the bursting of full grown heads.

Of late years many crops of early cabbages have been destroyed by maggots at the roots. The best remedy seems to be to remove the earth from around the stem and apply an emulsion of kerosene made as follows: Add one quart of kerosene oil to two quarts of boiling soft soap which has been thinned to the consistency of cream. Stir the oil thoroughly by churning or other method until it has united with the soap and forms a cream-like substance. Then dilute with five times as much water and apply once a week.

The cabbage worms which destroy the leaves and heads later may be killed by dusting with pyrethrum powder, slug shot or Paris green. The last two are poisonous and should not be used in large quantities, or late in the season; however, should their use be necessary, care should be taken to remove the outside leaves before the heads are used. If the disease called club root should get a foothold, do not plant the land with any of the cabbage family for a year or two. This is usually an effective remedy.

To preserve cabbages during winter, pull them on a dry day and turn them over on the heads a few hours to drain. Set them out in a cool cellar, or bury them in long trenches in a dry situation, covering with boards or straw so as to keep out frost and rain.

A great many of the varieties of cabbages are simply strains rather than distinct sorts and are really the same as some older and better known kinds. We do not know of a single variety which we have not had in trial, and we are confident that every good quality can be found in a greater degree in the varieties we offer than in any other kinds.

FIRST EARLY SORTS

Early Jersey The earliest and first sown heading of first early cabbages.

Wakefield Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better and there are few as good. Plant compact and erect or very slightly spreading, with few outer leaves, which are smooth, thick, nearly oval and light green. Stem short. Heads of medium size, very solid, uniformly pointed and of excellent quality. The habit of growth and hardiness make it most desirable for early planting. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00



EARLY JERSEY WAKEFIELD

Charleston, or Large Wakefield A strain in which the plant is larger and a little later than Early Jersey Wakefield, the head being fully as solid but less pointed and considerably larger. Leaves rather large, smooth and comparatively thick. Exceedingly hardy and on account of its earliness and size of head with market gardeners and shippers it is deservedly a very popular sort to follow Jersey Wakefield. Plant medium sized, slightly spreading; head pointed but very broad at the base. The seed we offer can be depended on to produce uniformly fine, marketable heads. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00



CHARLESTON, OR LARGE WAKEFIELD

Copenhagen Market The earliest large round-headed cabbage yet introduced. Head exceptionally large for so early a variety, very solid and of most excellent quality. Plant vigorous but compact, with short stem and few outer leaves which are of rather upright growth. Leaves medium light green, nearly round, comparatively thick and smooth. A most excellent sort, both for the home garden and market gardening trade. (See colored plate opposite and further description in Supplement, page 6) Pkt. 5c; Oz. 60c; 2 Oz. \$1.00; ¼ Lb. \$1.75; Lb. \$6.00

Early Spring This is the earliest flat headed variety. The plant is vigorous, very compact, with few outer leaves and short stem. The leaves are nearly round, broad, smooth and of distinctive light green color, without bloom. (Crop failed)

EARLY
DETROIT
TOMATO



The largest and best of
the early purplish pink
tomatoes. A splendid shipper.

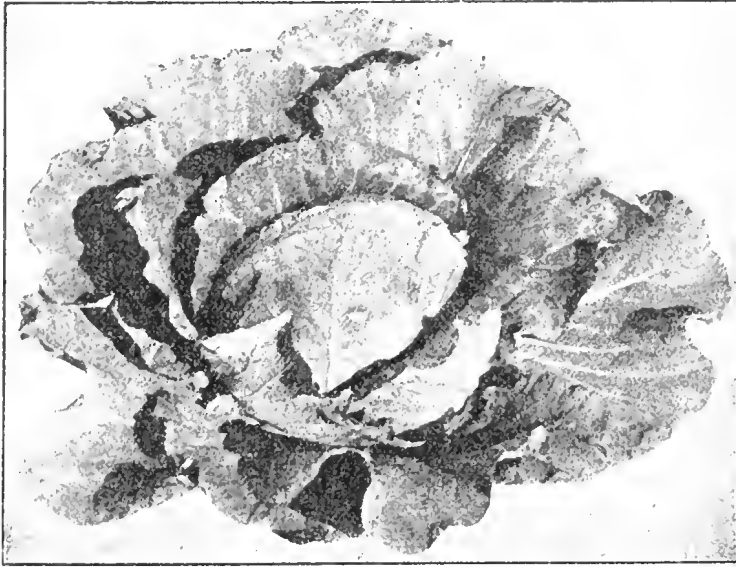
See page 57.

COPENHAGEN
MARKET CABBAGE



See
opposite
page

CABBAGE—SECOND EARLY, OR SUMMER SORTS

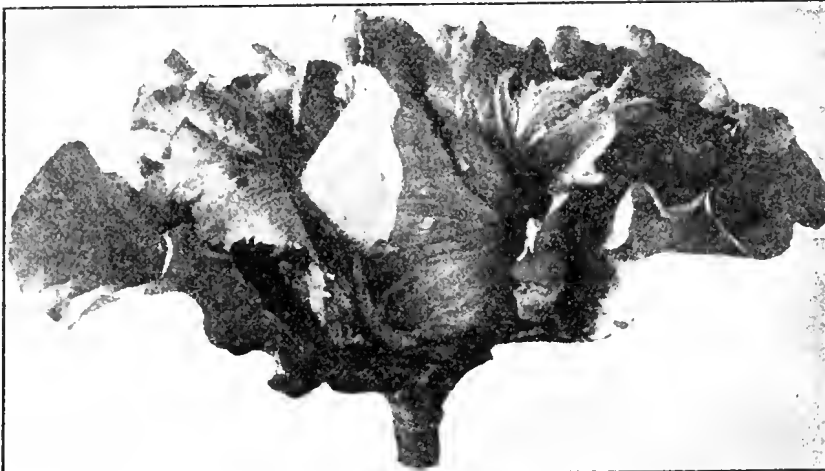


EARLY DWARF FLAT DUTCH

Early Dwarf Flat Dutch Continued experience confirms our belief that this is a most valuable second early sort. The plant is short stemmed, upright and having comparatively few and short leaves, the rows can be set close together. Head large, nearly round or slightly flattened, very solid and uniform in size and shape, maturing with Early Summer. Practically every plant will form a good, solid head which will mature much earlier than the Late Flat Dutch or other sorts usually grown for market and shipping. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Henderson's Early Summer An excellent, second early cabbage. The plant is strong growing with numerous but not large, rather spreading outer leaves which are somewhat frilled; stem rather short. The head is of medium size, round, somewhat flattened and keeps longer without bursting than most early sorts. Valuable for home garden and market, and well adapted for kraut. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00

Glory of Enkhuizen A comparatively new second early variety, very sure heading and of excellent quality. Plant of vigorous growth, with large, rather spreading outer leaves which are noticeably curved and frilled. Head globular or very nearly round, very solid and of large size for so early a variety. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

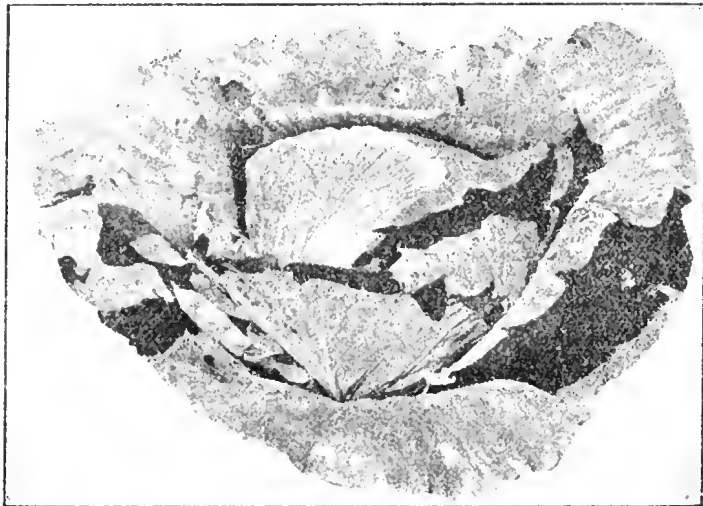


EARLY WINNIGSTAEDT

All Head Early Plant compact, with few smooth and rather thick; stem short. Head very large for so early a variety, very solid, flat but very deep and uniform in size and shape. Quality excellent. Well adapted for kraut. By planting late it can be used also as a winter cabbage. Our strain is of special value. Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00

Early Winnigstadt One of the best of the second early sorts, very hardy and sure heading. Owing to its compact and upright habit of growth and peculiar texture of its short, thick, rich dark green leaves, the variety seems to suffer less from the cabbage worm than most other sorts. Head of medium size, sharply pointed, very hard and of good quality. Leaves covered with bluish white bloom. Keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort. Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00

All Seasons One of the largest and most desirable of the second early sorts. Plant very vigorous and sure heading, with few outer leaves which are large and smooth. Head very large for so early a variety, nearly round or somewhat flattened, very solid and of the best quality. Adapted for autumn as well as early summer use, and considered one of the most desirable for kraut. Remarkable for its ability to stand the hot sun and dry weather, remaining an exceptionally long time in condition for use. Sometimes sold as Vandergraw. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00



SUCCESSION

Fottler's Early Drumhead, or Brunswick Short Stem One of the very best second early sorts, especially for the home garden. The plant is of dwarf compact growth, with very short stem and few outer leaves. The head is large, flat, solid and of excellent quality. Most desirable as an intermediate variety and also well adapted for late use. We have taken pains to have our stock free from the longer stemmed, coarse plants often seen in inferior stocks of this variety. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Succession A sure heading, long keeping variety, very similar to All Seasons, but usually a little later maturing. The plant is very vigorous with large outer leaves which are somewhat frilled. The head is deep and very firm. This second early sort is adapted for autumn as well as summer use. Our seed is from carefully grown selected stock. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50

CABBAGE—LATE, OR AUTUMN AND WINTER SORTS

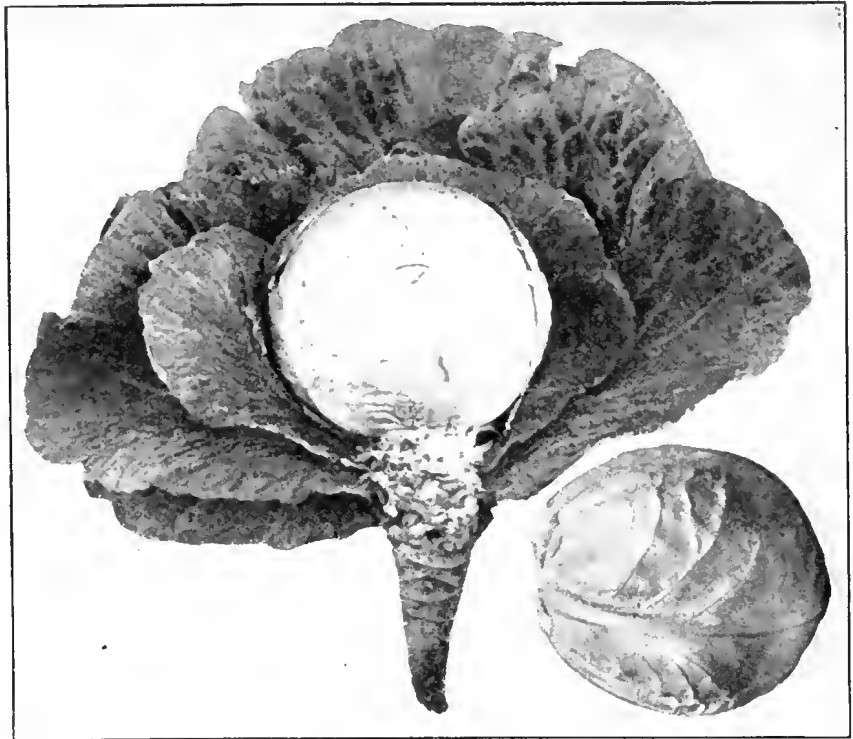
The Warren, or Improved Stone Mason One of the most desirable for fall and winter use, the stock we offer being much superior to that usually sold under this name. The plant is compact with only a moderate number of leaves. The head is large, flattened but very deep, very solid, and of excellent quality. The variety is well adapted both for the home garden and market. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

Volga One of the earliest main crop cabbages of superior quality. Very desirable where a large, uniformly round head with short stem and compact growth is wanted. This sort matures very early for a variety furnishing such large heads of excellent shape. It is also exceptionally hardy, usually very solid and a good keeper. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**

Surehead One of the most reliable main crop cabbages. The plant has a short stem and many outer leaves. The head is large, thick, somewhat flattened, very solid and uniform in size and color. Our stock is the best obtainable and will produce with certainty uniformly large, fine heads. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

D. M. Ferry & Co's Premium Late Flat Dutch This strain is the result of much care on our part to develop and maintain the good qualities which have made this sort so popular. The plant has a short stem, rather large outer leaves and is very sure heading. Head uniformly large, flat but deep, solid and of splendid quality. It is also an excellent keeper. Considered by many the standard, very large, late cabbage. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

D. M. Ferry & Co's Premium Late Drumhead We recommend this sort for markets that require a very large and deep head. Plant large with few outer leaves; stem of medium length. A sure heading variety which in good, rich soil will grow to a very large size and on poorer soils will give good sized heads which are very compact, and of excellent quality. The heads can be kept in good condition until spring. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**



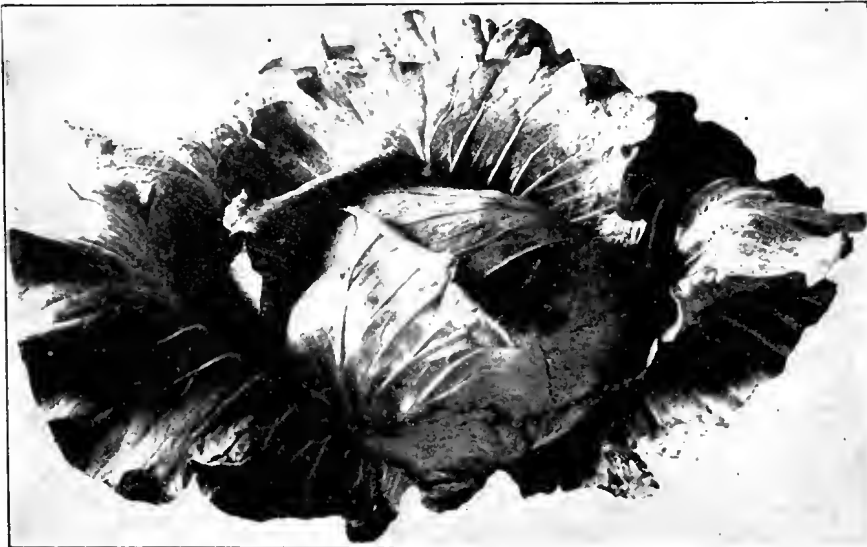
HOLLANDER, OR DANISH BALL HEAD

Hollander, or Danish Ball Head Very hardy, handsome, very solid, of fine quality and as one of the very best keepers it is particularly desirable for distant markets or for late spring use. The plant is vigorous, compact growing, with stem of medium length, and exceedingly hardy in resisting cold and dry weather. The leaves are few but rather large, thick, smooth, bluish green covered with whitish bloom. The head is medium sized, round, very solid and stands shipment better than any other late sort. We offer seed of our own growing which, judging from recent trials, will produce more uniformly typical heads than can be grown from the best stock obtainable elsewhere. **Pkt. 5c; Oz. 50c; 2 Oz. 85c; ¼ Lb. \$1.50; Lb. \$5.00**

Mammoth Rock Red The largest and surest heading red cabbage, much better than stock offered as Red Drumhead. Plant large, with numerous spreading leaves; stem of medium length. The head is large, round, very solid and of very attractive deep red color. **Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00**

Early Dwarf Ulm Savoy One of the earliest and sweetest of the Savoys. The head is round, solid; leaves small, much crumpled, thick, fleshy, of fine deep green color and excellent quality. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

Improved American Savoy The best of the main crop and late Savoys for home use or the market. The plant is vigorous, with stem of medium length, has densely and uniformly crumpled leaves and is very sure heading. The head is larger, more solid and better than the sorts offered as Perfection, Green Globe or Drumhead Savoy. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**



D. M. FERRY & CO'S PREMIUM LATE FLAT DUTCH

CARROT

The carrot is one of the most wholesome and nutritious of our garden roots deserving to be more extensively used for culinary purposes and we urge our customers to give some of the early table varieties as well as feeding sorts a trial. For horses and especially as winter feed for milk cows, the carrot cannot be surpassed and it should be more largely grown by farmers for this purpose.

While a sandy loam made rich by manuring the previous year is the best soil for the carrot, any good land if thoroughly and deeply worked will produce satisfactory crops. It is advisable to sow as early in the spring as the ground is fit to work, though good crops may be grown from sowings as late as June 15. For table use sow the smaller kinds early in rows sixteen to eighteen inches apart. For field culture sow in drills eighteen to twenty-four inches apart, using from one and one-half to three pounds of seed to the acre. Cover one-half to one inch deep and see to it that the soil is pressed firmly above the seed. As soon as the plants appear, use the cultivator or wheel hoe. Thin four to six inches apart in the row.



DANVERS

Earliest Short Horn (*French Forcing*) One of the earliest varieties in cultivation and very desirable for forcing. Tops very small. Roots reddish orange, nearly round when forced quickly in very rich, well prepared soil, but are somewhat longer when grown outdoors. When fully matured about two to two and one-half inches long, but should be used before fully grown while young and tender. Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75

Early Scarlet Horn Excellent for early planting out of doors. Tops small. Roots orange-red, about three inches long, top shaped but tapering abruptly to a small tap. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Early Half Long Scarlet The tops are very small; roots of medium size, slender, cylindrical with remarkably small necks, handsome deep orange color, tender throughout and of the best quality. Roots usually four and one-half to five inches in length, but sometimes considerably longer. The seed may be sown very thick and the variety is well adapted for forcing. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Half Long Scarlet Nantes, Tops small. Roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center but very tender throughout. This variety is of the finest quality and is one of the most symmetrical and handsome of the medium sized sorts. The mature roots are usually five to six inches long. Excellent for the market or home garden. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Chantenay Very productive, medium early and of excellent quality. Tops medium sized, necks small. Roots thick, five and one-half to six inches in length, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. Flesh very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. One of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it very desirable as a field sort. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Guerande, or Ox Heart Especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. Tops comparatively small. Roots four and one-half to five inches long, very thick, ending abruptly in a small tap root. Flesh bright orange, fine grained and sweet. When young the roots are excellent for table use and when mature are equally good for stock feeding. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

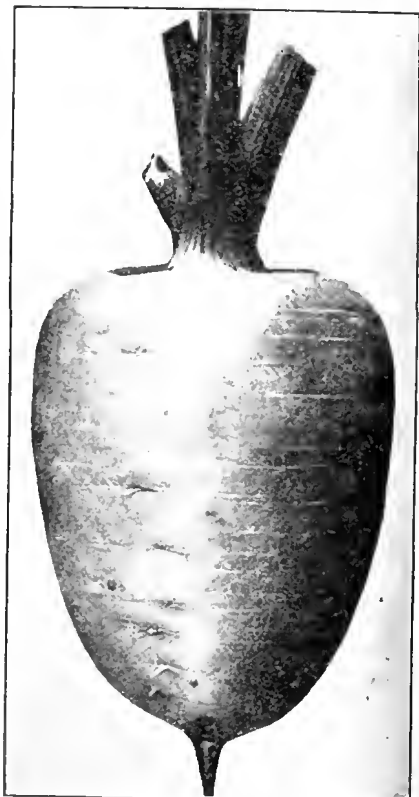
Danvers A half long orange carrot, grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size. Roots of medium length, six to eight inches long, tapering uniformly to a blunt point. Flesh deep orange, tender and of good quality. Although the roots of this variety are comparatively short they often produce as large a bulk as the longer field sorts and are more easily harvested. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Improved Long Orange This is a decided improvement obtained by years of careful selection of the best formed and deepest colored roots of the old Long Orange, which was the most popular of the older sorts for farm use on deep and mellow soil. The roots of the strain we offer are very deep orange, long and comparatively thick, often twelve inches in length and three inches in diameter at the crown, tapering regularly to a point. Tops large. Suitable for table use as well as stock feeding, combining great productiveness with uniform shape. When of size suitable for the table, the roots are tender and of good quality. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

D. M. Ferry & Co's Improved Short White One of the very best field carrots because of its enormous productiveness and the ease with which it can be harvested. Roots half long, seven to nine inches in length, smooth, very heavy at the shoulder but tapering regularly to the point; color creamy white with light green crown. Flesh white, solid, crisp and of excellent quality for stock feeding. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00



EARLY SCARLET HORN



GUERANDE, OR OX HEART

CAULIFLOWER

Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it. Any one will be reasonably sure of success with this most desirable vegetable if the cultural directions given below are carefully followed.

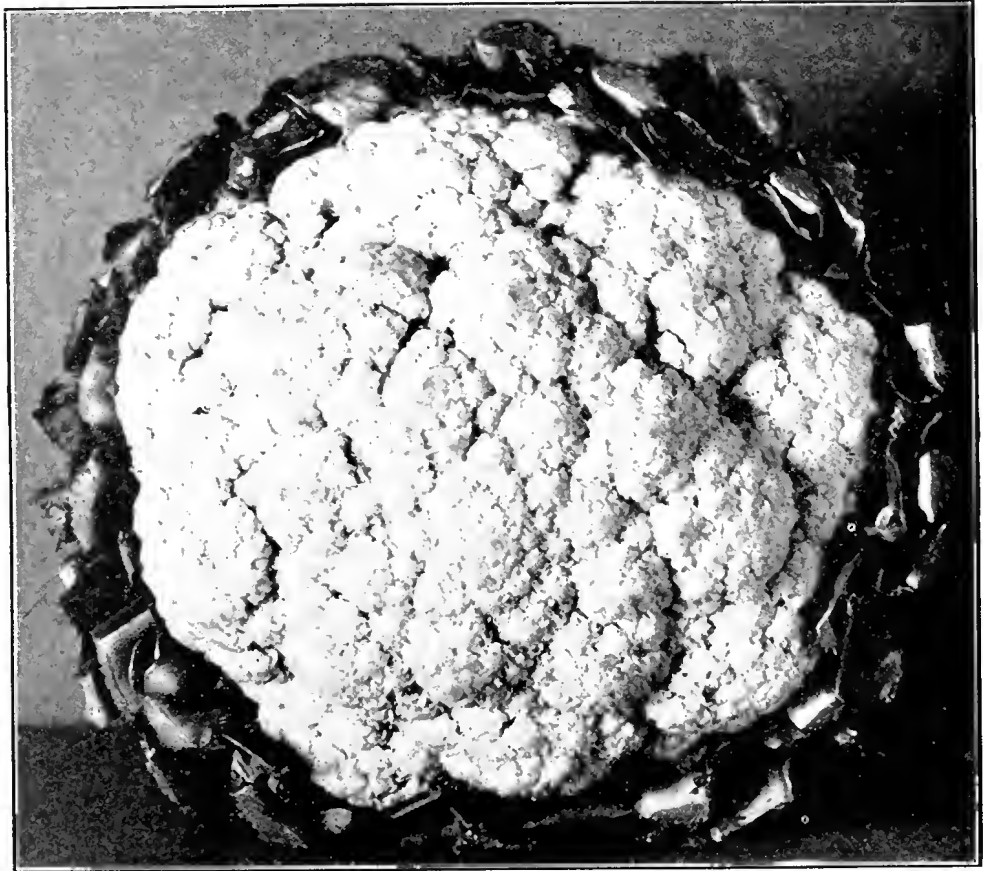
For spring and early summer crop, sow in March or early in April in hotbed and transplant to cold frame when sufficiently large to handle. As soon as danger of hard freezing is over set in the open ground in rows two and one-half feet apart and eighteen inches apart in the row. The plants will endure a light frost. The soil for cauliflower should be like that for cabbage, but it is better if made richer than is ordinarily used for that crop. Plenty of good manure must be well incorporated with the soil and the latter be brought into the highest state of tilth. No application, however, can be more necessary or more useful than that of cultivator and hoe. For late crop, sow at same time as for late cabbage and treat in the same manner. It should be borne in mind that cauliflower will not head up well in hot, dry weather and hence the sowings need to be so timed as to bring the heads to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. If it receive at this time a liberal supply of water, the size and quality of the heads will be greatly improved. After the head begins to form, draw the leaves over and tie them together to protect it from the sun and to keep it white. The heads should be cut for use while the "curd" is compact and hard, as they soon become much impaired in quality and appearance after they open and separate into branches. Of the enemies of the crop, none is more formidable than the cabbage root maggot. This seems to have a special liking for the cauliflower. Probably the best and most surely effective protective measure is enveloping each plant with a tight fitting collar of tarred felt. Plant lice are also serious pests of this crop. Effective remedies are dusting with fine tobacco dust, or spraying with strong tobacco tea or kerosene emulsion.

Our cauliflower trials for several years included samples of seeds from some of the most skillful American growers and while their stocks produced hardy, vigorous plants the heads formed were uniformly more open in the curd and matured a little later than those grown from the best imported seed. All the cauliflower seed we offer is produced by the most experienced growers in Europe, in such localities as are best suited to its proper development and the greatest care is taken to save seed from perfectly developed plants only.

Early Snowball Unquestionably the earliest maturing strain of the true short leaved Snowball type of cauliflower. Admirably adapted for forcing or wintering over for early crop and the most popular sort for these purposes, also one of the best sorts for late summer and fall crop. The plants are compact, with few short, outside leaves and are well suited for close planting. The heads are of medium to large size, solid, compact, round, very white and curd-like

and are developed earlier than those of any other sort. In our recent comparative trials of samples from the best known growers and prominent seedsmen in Europe and America our stocks of Early Snowball were unsurpassed by any in earliness. They also gave the highest percentage of well formed heads. After a careful inspection of the fields of the most expert Danish and other European growers we know we are in position to supply the most critical trade with seed which can be depended upon as the very best. Pkt. 25c; ¼ Oz. 75c; Oz. \$2.25; 2 Oz. \$4.25; ¼ Lb. \$8.00

Extra Early Dwarf Erfurt A remarkably sure heading early Cauliflower. It is of dwarf habit with short outside leaves and is similar in all respects to Early Snowball, and nearly as early. The heads when ready for market are of medium to large size, curd white, exceptionally deep and of finest quality. It will give excellent results either in the home garden or for market use and is superior to most seed sold at higher prices. Where extreme earliness is not the greatest consideration we recommend this strain after having proven it far superior to most stocks offered as Snowball. Pkt. 25c; ¼ Oz. 65c; Oz. \$2.00; 2 Oz. \$3.75; ¼ Lb. \$7.00



EARLY SNOWBALL

Early Favorite This is a second early, exceedingly hardy, easily grown and perhaps the best sort for the inexperienced grower, as it will head under conditions in which many sorts would fail. The plants are large and form large heads which, although inclined to be open, are crisp, tender and of fine quality. It keeps in condition for use a long time. Many years' experience has convinced us that it is one of the hardiest sorts. Pkt. 5c; Oz. 85c; 2 Oz. \$1.35; ¼ Lb. \$2.25

Large Algiers A valuable late sort, sure to head, of excellent quality and popular with market gardeners. Plant large but of upright growth, the leaves protecting the heads so that they will endure uninjured a frost that would ruin most other sorts. One of the very best of the late varieties. Pkt. 5c; Oz. 75c; 2 Oz. \$1.25; ¼ Lb. \$2.00

Veitch's Autumn Giant A distinct and valuable late variety with long stems and dark green leaves. The heads are very large, white, firm and compact and being well protected by foliage, remain a long time fit for use. The plants should be started and transplanted early in the season to insure their full development. Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25

CELERY

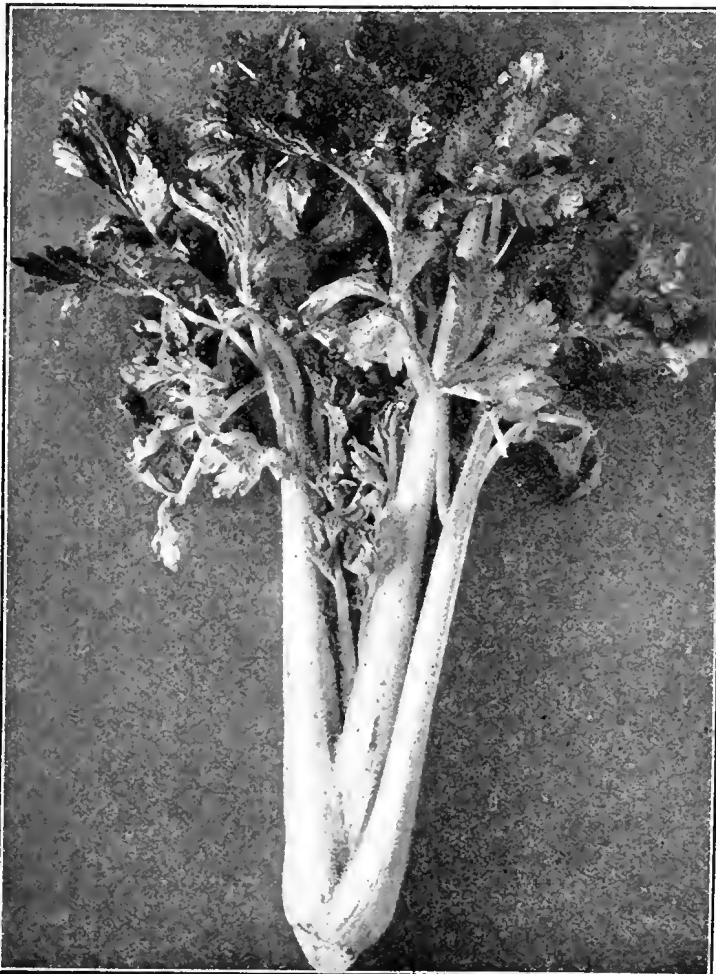
Sow the seed (which is slow to germinate) from about February 20 to April 20 in shallow boxes indoors or sow in a fine prepared seed bed out of doors in April in straight rows so that the small plants may be kept free from weeds. See to it that the seed is not covered too deep and that the bed is kept moist, almost wet, until the seeds germinate, as plenty of moisture is essential to get a satisfactory growth. The seed will not germinate well if planted in a hotbed or where subjected to a temperature above 60° F. When the plants are one to two inches high, thin out and transplant so that they may stand two or three inches apart each way. When they are four inches high, cut off the tops, which will cause the plants to grow stocky. Plants are usually set out when about five inches high. It is well to cut off the lower half of the roots before transplanting.

The crop is usually made to succeed some earlier one, but in order to grow good celery the soil must be made as rich as possible, the essentials to success being very rich soil and plenty of water. If good plants are used, they may be set out as late as the middle of August, but the best results are usually obtained from setting about the middle of June or first of July. The most desirable time will depend upon local climate and is that which will bring the plants to maturity during cool, milder weather. In setting, prepare broad trenches about six inches deep and four to six feet apart, in which the plants should be six inches apart, cutting off the outer leaves and pressing the soil firmly about the roots. The compacting of the soil excludes the air from the roots until new rootlets are started. The only care now necessary for about six weeks is to keep the plants free from weeds by frequent cultivation. When the plants are nearly full grown they should be "handed" which is done by gathering the leaves together while the earth is drawn about the plant to one-third its height, taking care that none of it falls between the leaves, as it would be likely to cause them to rust or rot. After a few days draw more earth about them and repeat the process every few days until only the tops of the leaves are visible. Or it may be blanched by pressing the leaves together with two wide boards held in place by stakes or by wire hooks at the top. This is the method commonly used by market gardeners and the rows need to be only about three feet apart, but celery so blanched is not so good in quality and is more likely to become pithy than that blanched with earth. Care should be taken that the plants are not disturbed while they are wet or the ground is damp; to do so increases the liability to injury from rust.

A part of the crop may be simply "handed" and then at the approach of severe freezing weather taken up and set out compactly in a dark cellar or an unheated cold frame, where the temperature can be kept just above the freezing point and will then gradually blanch so that it may be used throughout the winter. Should the plants begin to wilt, water the row without wetting the stalks or leaves and they will revive again.

Celery is sometimes grown by what is termed the new process which consists in making a spot as rich as possible and the setting the plants six to eight inches apart each way. If the soil is very rich and there is an abundance of water, the plant will blanch each other and the product will be very white and handsome, but we think it is inferior in quality to that grown by the old method.

Golden Yellow Self Blanching This is the best celery for early use. It is in condition as early in the fall as a stock of Golden Yellow Self Blanching, and we have yet to find an extra early sort equal in quality and appearance to a stock of Golden Yellow Self Blanching. Critical gardeners generally depend upon our stock to produce their finest early celery. Plants of medium size, compact and stocky, with yellowish green foliage. As they mature the inner stems and leaves turn a beautiful golden yellow so that blanching is effected at a minimum expenditure of time and labor. Its handsome color, crispness, tenderness, freedom from stringiness, and fine nutty flavor have fully established it as the standard for early sort. Pkt. 5c; Oz. \$1.65; 2 Oz. \$2.80; ¼ Lb. \$5.25; Lb. \$20.00



GOLDEN YELLOW SELF BLANCHING

White Plume A handsome, very early variety with a base, shading nearly white at tips. As the plant matures, the inner stems and leaves turn white and require to be earthed up but a short time before they are in condition for use. Although very attractive, we do not think that it compares favorably with the Golden Yellow Self Blanching either in flavor or solidity, or that it will remain in condition for use as long. White Plume is much in demand as a market sort on account of its very attractive appearance and requiring a very short time for blanching. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00

Columbia An early maturing sort unsurpassed in shape and quality. The plant of medium height but very stocky and heavy. The stalks are thick, almost round, resembling in shape those of Giant Pascal; the color has in some of the rich yellow tint of Golden Yellow Self Blanching, which variety it resembles very much in appearance when trimmed and bunched for the market. The foliage is of a distinctly light shade of green with a tinge of yellow. In season it follows in close succession Golden Yellow Self Blanching. Its quality is certainly exceptionally fine, some connoisseurs considering it equal or even superior to either Golden Yellow Self Blanching or Giant Pascal. Introduced by us in 1906. (See cut, and further description in Supplement, page 6) Pkt. 5c; Oz. 75c; 2 Oz. \$1.25; ¼ Lb. \$2.00; Lb. \$7.00

Dwarf White Solid An erect, compact growing variety. Stalks moderately thick, solid and crisp, becoming when blanched attractive light yellowish white. This variety is also sold as Large Ribbed Kalamazoo and Kalamazoo. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Seymour's White Solid A large sized, vigorous growing variety; stalks when blanched attractive light yellow or nearly white, nearly round, crisp, solid and of good flavor. Matures a little earlier than Giant Pascal. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Giant Pascal This is a green leaved variety developed from the Golden Yellow Self Blanching and we recommend it as being of the very best quality for fall and early winter use. It blanches to a beautiful yellowish white color; is very solid and crisp and of a fine nutty flavor. The stalk is of medium height, very thick, the upper portion nearly round but broadening and flattening toward the base. With high culture this variety will give splendid satisfaction as a large growing sort for fall and winter use. In the south it is prized more than almost any other kind. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

CELERY—Continued

Evans' Triumph We consider this the best in quality of the large, late sorts. The variety produces a very strong and vigorous plant with dark green foliage and large stalks which when blanched are attractive light yellow or nearly white, crisp, tender and of fine flavor. It is late and requires the whole season to develop but will keep well for a long time and has proven to be a very popular late variety. When properly grown a dozen plants trimmed for market will weigh nearly twice as much as the same number of some smaller and earlier sorts. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**

Winter Reliance This is considered the most attractive in color and the best in quality of any of the late keeping sorts. Plant moderately dwarf, compact, with solid heart and habit of growth very well adapted for late keeping. When ready for the late market the color is a light creamy yellow, very handsome. Its quality is unsurpassed by any variety of its class and is decidedly superior to most of the other, long keeping sorts. **Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50**

French's Success Keeps the best of any celery yet introduced. Growth compact and short in stem so that plants may be well earthed up for blanching while growing close together. Foliage dark green; heart large, solid and formed early; stalks become when blanched almost white or very light creamy yellow, thick, yet brittle, without stringiness and of good quality. It requires more time to mature than some sorts but remains firm, solid and in perfect condition until late in the spring. **Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50**

Soup, or Cutting Celery Not suitable for blanching but is sown thick in rows for soup flavoring. The tops grow very rapidly and furnish a succession of cuttings throughout the season. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

CELERY SEED FOR FLAVORING. Oz. 10c; ¼ Lb. 20c; Lb. 50c.



WINTER RELIANCE

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

Large Smooth Prague An improved form of turnip rooted celery, excellent for soups and stews. Produces roots of nearly globular shape and comparatively smooth surface. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00**

CHERVIL A hardy annual with aromatic leaves resembling parsley in appearance and by many considered superior to that vegetable in flavor. The young leaves are used in soups and salads and for flavoring and garnishing dishes of meats and vegetables. They are ready for use in six to ten weeks from sowing. Sow in early spring in rich, well prepared soil. The seed is slow to germinate, sometimes remaining in the earth four or five weeks before the plants appear. When the plants are about two inches high, transplant or thin to about one foot apart.

Curled Greatly superior to the old, plain variety, being earlier, handsomer and having fully as fine fragrance and flavor. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**



FRENCH'S SUCCESS

CHICORY—Large Rooted, or Coffee The dried and prepared roots are much used as a substitute for coffee, and the young leaves may be used as a spring salad. Our stock is the improved type, with very much larger, smoother, whiter and proportionately shorter roots than the old kind. Sow the seed as early in the spring as the ground can be prepared, in a rather light, moderately rich soil, in drills two to two and one-half feet apart for either garden or field culture. When the plants are sufficiently large, thin to six inches apart in the row. Cultivate well and in the fall dig the roots, slice them and dry in an apple evaporator or kiln constructed for the purpose. When the roots are grown in quantity for the manufacturers of "prepared" chicory, they are usually brought to the factory in the "green" state and there dried in kilns constructed specially for the purpose. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.**

CHIVES—Allium Schoenoprasum An onion-like plant used as a salad and for flavoring soups. It makes an excellent ornamental garden bed edging which may frequently be cut, a new growth of leaves appearing soon after each cutting. Height about ten inches. One sowing will answer about three years. **Pkt. 10c; Oz. 50c.**

COLLARDS A tall, loose leaved cabbage-like or kale-like plant grown throughout the south and known in different sections as "Cole," "Colewort," or simply "Greens." It is extensively used for table and for stock in the south where it continues in growth and is usable throughout the entire winter. Collards usually succeed in locations where cabbage cannot be grown to perfection.

Georgia, Southern, or Creole This is the white or green stemmed variety, growing two to three feet high and forming a large, loose, open head or cluster of leaves with a rather long stem. frost, if not too severe, will improve rather than injure the quality of the leaves. Sow thickly in drills, in rich ground, transplanting when four inches high; or sow in drills where the plants are to remain and when well started thin to two or three feet apart in the row. In the south, seed may be sown from January to May and from August to October. **Pkt. 5c; Oz. 10c; 2 Oz. 2 ¼ Lb. 30c; Lb. \$1.00**

C O R N

SWEET, OR TABLE VARIETIES

A rich, warm, alluvial soil is the best, but excellent sweet corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. In the north sweet corn should be planted as early as can be done without risking great loss from frosts or from rotting of the seed in the soil. If planted in rows, make the rows about four feet apart and place the seed fourteen to sixteen inches apart in the row, covering one inch deep with fine soil firmly pressed down. If planted in hills, make the hills for the early varieties three feet apart each way and plant six kernels to the hill. For the later sorts the hills should be not less than four feet apart each way. Hoe frequently, and when six inches high thin so as to leave three or four plants in the hill. Give frequent and thorough but shallow cultivation until the tassels appear.

Mammoth White Cory We consider this unquestionably the best extra early corn. Ears very large for so early a variety. Stalks about four feet high, each generally bearing two large, finely shaped ears which become fit for use as early as those of any variety in cultivation. They are twelve rowed, six to seven inches long, very symmetrical and handsome, seldom with any opening between the rows at the base. Grain large, broad, very white and of remarkably good quality for such an early sort. The size and beauty of this variety give it ready sale even when the market is overstocked. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50**

White Malakhof A handsome, very early sweet corn of splendid quality. Stalks about four feet high; ears about five inches long, twelve rowed, slender but with very small cob which is well filled with small, deep, sweet and tender grains. Follows closely Mammoth White Cory in time of maturing. **Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$6.00**

White Mexican An early sweet corn of very rich and excellent flavor. Stalks about four and one-half feet high; ears eight inches long, usually eight rowed; about the same season as Crosby's Early and of better quality than any other early variety of equally large size. Our stock is far superior to much that has been sold under this name. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$5.00**

Crosby's Early A most excellent early variety of fine quality. Ears five and one-half to six and one-half inches long, fourteen rowed or more, with short nearly square grains which are very white, sweet and tender. Plants about four and one-half feet high. This is the sort so largely grown in Maine for canning and it is the use of this variety rather than any peculiarity of soil that has given Maine sweet corn its reputation for quality. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50**

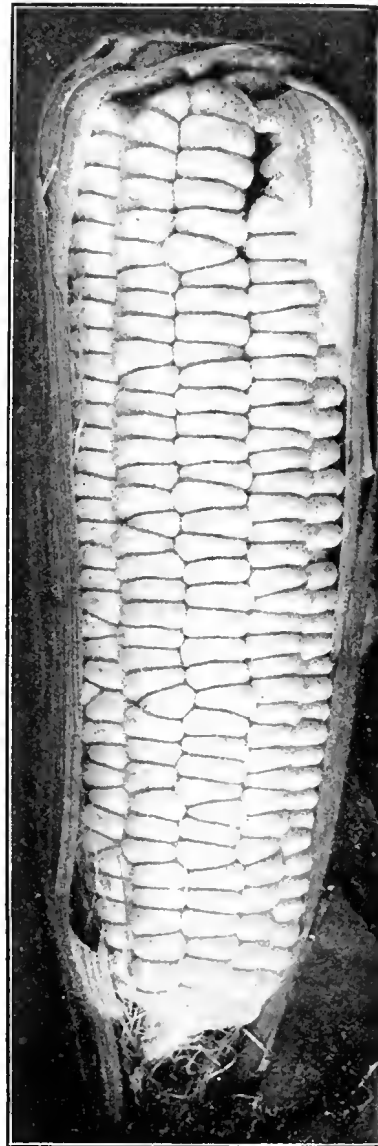
Golden Bantam An early sweet corn with golden yellow grain, very tender and of excellent quality. Ears eight rowed, six to seven inches long and of the medium size found most suitable for the table. The flavor is exceptionally rich and delicious. Height four to five feet. Our stock has been very carefully selected during several seasons and will be found decidedly superior to much that is offered. (See cut in Supplement, page 8) **Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$6.00**

Early Minnesota This old and deservedly popular variety is one of the best second early sorts for the market and the home garden. The stalks are about six feet high bearing one or two ears well covered with husks. The ears are about eight inches long, eight rowed; kernels very broad, sweet and tender, not shrinking much in drying. By careful selection we have developed a stock of this standard variety which is remarkably uniform and in which all the good qualities that have made this sort so popular are intensified. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.00**

Kendel's Early Giant Remarkably large in ear for a second early sort and very popular in some localities. The stalks are about five and one-half feet high. The ears are about eight inches long, twelve rowed. The grain is rather broad and shallow, and the quality very good. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.00**

Early Sweet, or Sugar Ears about nine inches long, slender, eight rowed, with grain very white, tender and sugary. The stalks are about six feet high, hardy and productive. An old but excellent table sort. Our stock is distinct and true and not such a mixture of all sorts of early sweet sugar corn as is often offered under this name. **Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.00**

If corn is ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



MAMMOTH WHITE CORY

CORN

SWEET, OR TABLE VARIETIES—Continued

Perry's Hybrid This is a very popular eastern variety. Stalks about six feet high, bearing two ears about eight inches long, twelve or fourteen rowed, which often have a red or pink cob; grain medium sized, cooking very white and tender. Matures a little later than Early Minnesota. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.00

Black Mexican This corn, when in condition for the table, cooks remarkably white, but the ripe grain is black or bluish black. It is surpassed by none in tenderness and fine quality. For home use we consider it the most desirable second early sort. It does especially well for second early in the south. Stalks about six and one-half feet high; ears about eight inches long; usually eight rowed. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50

Ferry's Early Evergreen We have tested many samples of Evergreen corn that were claimed to be earlier than valuable as the stock of this variety we offer. It has been proven both on our trial grounds and in the field to come into fit condition for use much earlier than Stowell's Evergreen and to remain in condition quite as long. Ears about seven inches long, with fourteen to twenty more or less irregular rows with very deep grain which is of the very best quality. Plants average from six and one-half to seven feet high and in ear resemble those of Stowell's Evergreen, but differ in earliness and we think are more uniform. A standard main crop variety for home garden and market; also well adapted for canning. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.00

Avon Evergreen Those who like the old reliable Stowell's Evergreen will find in Avon Evergreen a variety better in every way. It is a trifle earlier, of superior quality, has a longer ear and thicker kernel. Ears cylindrical, about nine inches long, well filled at ends, fourteen or sixteen even rows. Grain very white, tender, delicious in sugary flavor, thick and of good depth. Stalk vigorous, seven to eight feet high. This is a splendid main crop variety for the market, the home garden or the canner. It remains long in condition for use. (See cut and further description in Supplement, page 10.) Pkt. 15c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; ¼ Bu. \$2.50

Country Gentleman This variety has a small, white cob, densely covered with irregular rows of very long slender, white grains of excellent quality. Ears seven to nine inches long; stalks from six and one-half to seven feet high. Well adapted for canning as well as the home garden and market and by many it is regarded as the best of the late varieties. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50

Stowell's Evergreen The standard main crop variety, much used for the home garden, market and canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. Our stock has been carefully grown and selected to avoid the tendency to a shorter grain and deterioration in the evergreen character of this best known of all late sorts. Ears about eight inches long, fourteen to twenty rowed; stalks about seven and one-half feet high. Pkt. 10c; Pt. 15c; Qt. 20c; 4 Qts. 60c; Bu. \$3.75

Mammoth A rather late variety, but producing the largest ears of any sort with which we are acquainted. It is of excellent quality, sweet, tender and delicious and its only fault is the immense size of the ears, which are about twelve inches long and sixteen or eighteen rowed. Plant very large, about eight feet high. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. \$4.50

FIELD VARIETIES

Extra Early Adams Very early and used extensively for a first early table corn in the south. Stalks about four feet high, with small tassel, very few leaves, and without suckers. Ear short, very full, twelve or fourteen rowed, often nearly as thick as it is long, well covered with coarse husks; kernels white, smooth. An extremely hardy variety which can be grown closer together than most sorts. Pkt. 10c; Pt. 15c; Qt. 20c; 4 Qts. 60c; Bu. \$3.25

Early Adams, or Burlington An excellent early field variety and often used for table, particularly in the south. Ears about eight inches long, twelve or fourteen rowed; kernels white, rounded, somewhat deeper than broad and indented at the outer end which is whiter and less transparent than the inner. Stalks about six feet high. Pkt. 10c; Pt. 15c; Qt. 20c; 4 Qts. 60c; Bu. \$3.25

Early Red Blazed An early flint sort about seven feet high. Ears ten to twelve inches long, eight rowed, well filled. Grain flinty, of fine quality, bright yellow at base of ears, but red at the tips. Known also as Smut Nose. Pkt. 10c; Pt. 15c; Qt. 20c; 4 Qts. 50c; Bu. \$2.50

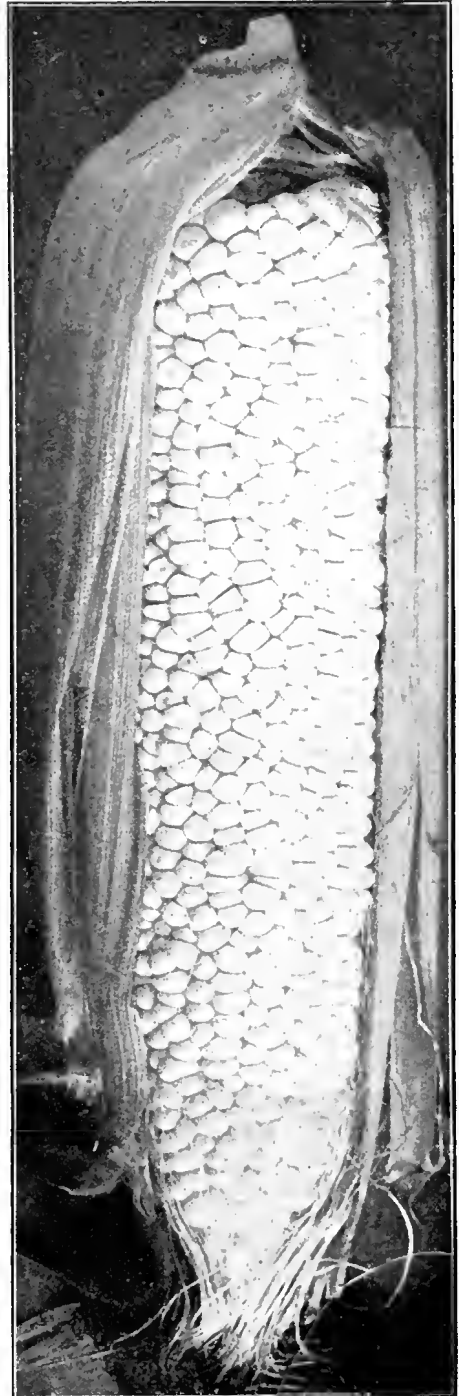
Early Golden Dent, or Pride of the North A very early dent variety. Stalks about seven feet high, with broad leaves. Ears about seven inches long, twelve to sixteen rowed, well filled. Grain long, yellow, making an extra quality of meal. Pkt. 10c; Pt. 15c; Qt. 20c; 4 Qts. 50c; Bu. \$2.50

Rice Pop Corn A very handsome and prolific variety. Ears six to seven inches long; kernels long, pointed and resemble rice; color white. No variety of pop corn is superior to this for parching. We supply lots of four quarts and less, shelled. Pkt. 10c; Pt. 15c; Qt. 25c; 4 Qts. 75c; Bu. of ears \$2.50

If corn is ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

CORN SALAD—Fetticus, or Lamb's Lettuce

A small, quick growing salad plant for late fall, winter and spring use. The leaves are used as a substitute for lettuce and spinach. During August and September sow the seed in shallow drills about one foot apart, covering with about one-fourth inch of fine soil firmly pressed down. On the approach of severe cold weather, cover with straw or coarse litter. The plants will also do well if the seed is sown very early in the spring and like most salad plants, are greatly improved if sown on very rich soil; indeed the ground can scarcely be made too rich for them. The seed we offer is extra cleaned, quite different from much that appears on the market. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c



COUNTRY GENTLEMAN

CUCUMBER

This is one of the vegetables that can be grown to perfection by any one who can control a few square yards of reasonably good soil that is fully exposed to the sun. Every family should be supplied from its own garden, since the fruit is so much better when gathered fresh from the vines as desired for use than it is in the more or less wilted condition in which it is found on the market.

In order to obtain the largest yield of cucumbers, the soil should be well enriched with well rotted manure, but an abundance of good fruit can be raised on any rich garden soil. Plant the seed not over an inch deep in hills four to six feet apart each way, dropping fifteen to twenty seeds in a hill. After the plants begin to crowd and danger from the striped beetle is pretty well over, thin to three plants to the hill. Give frequent but shallow cultivation until the plants make runners so long that this is impracticable. In field culture, plow furrows four feet apart and similar ones at right angles to the first. At each intersection drop a shovelful or more of well rotted manure which should be well mixed with the soil, forming a broad, flat hill four to six inches above the surface. Many growers omit every fourth row, thus forming paths for the distribution of manure and gathering the fruit. In many sections, where earliness is very important, market gardeners start plants in boxes made like the ordinary berry box, but without the raised bottom. The boxes are set in hotbeds or cold frames, filled with rich, friable soil and the seed planted. When danger of frost is over, the plants are set in the open ground, the boxes being cut away, so that the roots are not disturbed at all.

The plants are liable to attack from the striped cucumber beetles which are so numerous in some cases as to destroy them.

These insects may be kept off by frequent dusting with air slaked lime, soot or sifted ashes diluted with fine road earth. Care should be taken not to use too much of any of the above materials, for if used too freely they will kill the vines. The best protection against injury is a vigorous and rapid growth of the young plants.

Pick the fruit as soon as it is large enough and before it begins to ripen, as the vines will cease setting fruit as soon as any seed begins to mature. In gathering for pickles, cut the stem instead of pulling the fruit off and be careful not to mar the fruit in any way, for if the skin be broken the pickles will not keep so well.

We pay particular attention to growing and selecting the various strains so as to keep them pure and true to name.

Early Cluster An early and very productive variety. The vines are hardy and very vigorous, bearing fruits in clusters of two or three. The fruits are short, thick, bright green, shading lighter at blossom end, crisp and tender. This sort is extensively used as a pickling cucumber as well as for slicing. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Early Short Green This variety is known also as Early Frame, and is an early, bright green cucumber of medium size, very extensively used for slicing and pickling. The vines are very vigorous and productive. The fruits are straight, a little smaller at the ends, bright green in color, shading lighter at the blossom end. The flesh is crisp and tender. Our stock is very superior. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Snow's Pickling An early maturing, very small, dark green cucumber with many growers. The seed we offer was grown from a very fine lot of stock seed procured from the originator. We have been growing this variety ourselves for four years, giving special attention to purity and uniformity of type and we believe the seed we offer meets in all respects the requirements of those who want an ideal bottle pickle. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

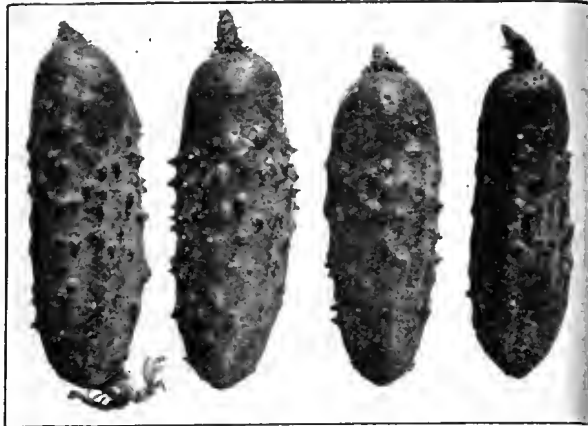
Muscatine Pickling A pickling strain of western origin, even in shape, of deep green color, blunt ended and very desirable for small pickles. One of the most promising of the recent improvements in pickling cucumbers. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Chicago, or Westerfield Pickling The fruits of this very desirable sort are of medium length, pointed at each end, with very large and prominent spines. The color is deep green. A very prolific variety and one of the best for those who want crisp, coarsely spined pickles. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Boston Pickling This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender. Our seed is decidedly superior to much that is offered. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Jersey Pickling This variety is between the Long and the Short Green, forming a long, slender, cylindrical pickle which is very crisp and tender. The vines are very vigorous and productive. This sort is excellent for slicing as well as for pickling. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Early White Spine One of the best sorts for table use. The vines are vigorous, fruiting early and abundantly. The fruits are uniformly straight, light, bright green in color, with a few white spines. The flesh is crisp, tender and of excellent quality. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00



SNOW'S PICKLING



EARLY WHITE SPINE

CUCUMBER—Continued

Arlington A selection from the Early White Spine, being more pointed at each end. The young fruits are crisp and tender and are of dark green color. The mature fruits are about six and one-half to seven inches long. Considered by many to be the best sort for small pickles. Excellent also for slicing. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Klondike A medium early, white spined cucumber of handsome, very dark green color and of excellent quality for slicing. The vines are very hardy and productive. The fruits when mature are about eight inches long, and are uniform in size and shape. Color dark green, slightly striped at the ends. The dark green color is retained much longer and is affected less by the hot sun than any other sort with which we are familiar. Its uniform size and shape and splendid color are making this variety very popular as a shipping sort. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25



KLONDIKE



IMPROVED LONG GREEN

Extra Long, or Evergreen White Spine Beautiful in shape and color and of the finest quality. The fruit is long, cylindrical, dark green, with very white, crisp and tender flesh. An entirely distinct sort developed by ourselves through very careful selection, our aim being to secure the best possible table cucumber. The vine is vigorous and productive and comes into full bearing somewhat later than Early White Spine. The mature fruits are about eight to nine inches long. This variety is adapted also for forcing. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Improved Long Green Vines very vigorous and productive. The fruits are very long, often twelve inches, slender and of uniformly dark green color. Furnishes some fruits early but matures the bulk of its crop rather late. Excellent for slicing and very largely used for pickles. The mature fruits are often used for making sweet pickles. We offer a carefully selected strain uniformly long, of good form and with the large warts and spines well distributed over the surface instead of being clustered at one end as in inferior stocks. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Small Gherkin (For Pickles) A very small, oval, prickly fruited sort quite distinct from all others and grown exclusively for pickles. It is the smallest of all the varieties and should always be picked when young and tender. Seed distinctly smaller than other cucumbers and is slow to germinate, requiring usually from two to three weeks. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

CRESS

As early in spring as the ground can be worked sow the seed in rich, well prepared soil, in shallow drills about sixteen inches apart, covering with about one-half inch of fine soil firmly pressed down. When the young plants are well started thin four to six inches apart in the row. For succession plant every two weeks, thinning out as required for use. Keep off insects by dusting with Pyrethrum powder.

Curled, or Pepper Grass The leaves of this small salad are much frilled or curled, and are used for garnishing; also desirable with lettuce, to the flavor of which its warm, pungent taste makes a most agreeable addition. The plant is of rapid growth, about one foot high. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 50c.

True Water This is a distinct variety of cress with small, oval leaves and thrives best when its roots and stems are submerged in water. A fair growth may be obtained in soil which is kept wet but does best when grown along moist banks or in tubs in water-covered soil. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found. The seed is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams. The plants will need no subsequent culture, as under favorable conditions they increase very rapidly by self-sown seed and extension of the roots. When gathered for the market the shoots should be cut, not broken off. In summer it is best to cut them closely, the oftener the better. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.60

DANDELION

Sow early in spring, in very warm, rich soil, in drills eighteen inches apart; thin to five inches apart and cultivate well; they will be fit for cutting the next spring. When grown for the roots, sow in September and cultivate well during the fall and the following summer; the roots will be fit to dig in October.

Cultivated, or French Common A decided improvement on the wild dandelion. Very early and vigorous in growth. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Improved Thick Leaved Unsurpassed in thickness of leaf and deep green color. It is much superior to the common unimproved dandelion. Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00

EGG PLANT

Seed germinates slowly and should be started in hot-bed, for in this, as in all sub-tropical plants, it is important to secure a rapid and continuous growth from the first, the plants never recovering from a check received when young. When plants have two rough leaves transplant three or four inches apart. When the ground is warm and all danger not only from frosts but from cold nights is past, harden off by gradual exposure to the sun and air and decreasing the supply of water, then carefully transplant to open ground, setting two and one-half feet apart. It is desirable to shade the young plants from very hot sun and to protect them from the potato bug which otherwise often destroys them. Some seasons egg plants will fail to set fruit or will not begin bearing until too late to mature, no matter how faithfully they may have been cared for. This is especially likely to happen if the summer is cool and rather moist. We know of no certain remedy for it, although it is a good practice to pinch off the ends of the branches after the plants begin to bloom, so that only two or three fruits will set.

Early Long Purple This is a very early maturing, and most productive variety; fruit long, rich purple and of fine quality. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25

Black Pekin An early variety with fruit nearly as large as the later sorts. Fruit nearly round; skin smooth, black, glossy; flesh white, fine grained and delicate. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50

Black Beauty Rich dark purple, large and symmetrical, maturing a little earlier than our Improved Large Purple but usually not quite as large. Very desirable for the market as the fruit holds its color a long time. Pkt. 5c; Oz. 45c; 2 Oz. 85c; ¼ Lb. \$1.50; Lb. \$4.50

D. M. Ferry & Co's Improved Large Purple (SPINELESS) This variety is a general favorite both for market and home garden. Plants spineless, large and spreading with light green foliage. Usually produces four to six large, oval fruits of a splendid dark purple color. Early, productive and of excellent quality. The vigor and productiveness of the plant and the large size and fine quality of its fruit make it most profitable for market gardeners. Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00



EGG PLANT, D. M. FERRY & CO'S IMPROVED LARGE PURPLE



BROAD LEAVED BATAVIAN ENDIVE

ENDIVE

Endive may be grown at any season of the year but is more generally used late in the fall. Sow the seed in June or July in drills fourteen to twenty inches apart and when well started thin the plants to one foot apart. When nearly full grown tie the outer leaves together over the center in order to blanch the heart of the plant. By covering fresh plants every few days a succession may be kept up. Endive is not only much used for salads and garnishing but is also desirable for greens and for flavoring soups and stews.

Large Green Curled A hardy, vigorous growing variety with bright deep green leaves. The dense mass of deeply divided leaves formed in the center blanches very readily to rich creamy white. Highly esteemed and much used for salads. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Ever White Curled Plant moderately dense, with divided leaves which are very light yellowish green in color, even the outer ones being very light. Blanches very readily to creamy white. Considered by many the most attractive sort. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Moss Curled Plants compact growing, forming large, dense clusters of finely divided, medium green leaves which, when properly blanched, are rich creamy white, crisp and tender. Leaf stems sometimes tinged with light purplish red. One of the best autumn, winter or spring salads. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Broad Leaved Batavian (*Escarolle*) A variety having broad, more or less twisted and waved bright deep green leaves with thick, nearly white midribs. The inner leaves form a fairly solid, clustering head which blanches beautiful deep creamy white and is crisp, tender and of fine flavor. Unsurpassed for salads. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

FENNEL FLORENCE (*Foeniculum dulce*) An excellent bulb-like vegetable which is formed above the ground at the base of the leaf stalk if the plant is well grown. Blanched and boiled it has a slightly aromatic odor and pleasant taste. Plant very branching, upright with dense thread-like foliage. Sow early in spring, in rich, well prepared soil, in drills two feet apart and cover one-fourth to one-half inch deep. When the plants are about two inches high thin to ten inches apart in the row. When half grown, if the plants are earthed up and treated as celery, the stems will be nearly as white, crisp and palatable. Hardy annual, two to four feet high. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00 (For Sweet Fennel see page 61.)

GARLIC A bulbous rooted plant of the onion family with a strong, penetrating odor but much esteemed by some for flavoring soups, stews, etc. We frequently receive orders for garlic seed but we can supply bulbs only. Prepare ground the same as for onions, plant the bulbs in drills eight inches apart and four inches apart in the rows, covering two inches deep. When the leaves turn yellow take up the bulbs, dry in shade and lay them up in a dry loft as you would onions. BULBS, ¼ Lb. 20c; Lb. 50c.

HORSE RADISH Horse Radish rarely produces seed but is grown from pieces of the roots. Mark off the rows two and one-half feet apart in rich, moist, well prepared ground and set the pieces of roots eighteen inches apart in the rows vertically, the small end down and the top one to three inches below the surface. Cultivate thoroughly until the tops cover the ground, when their shade will keep down the weeds. SMALL ROOTS—3 for 10c; 25c. per dozen, postpaid. By freight or express at purchaser's expense, 75c. per 100.

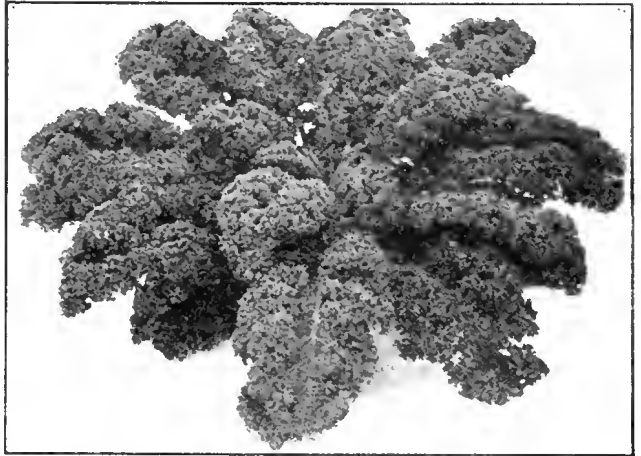
KALE, OR BORECOLE

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

Tall Green Curled Scotch Grows to three or four feet high bearing long, plume-like, light green leaves deeply cut, finely curled at edges. Very ornamental and so hardy that a moderately heavy frost improves rather than injures its quality. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Dwarf Curled Scotch, or German Greens A finely curled, spreading, low growing variety, the leaves of which when properly cooked make a very palatable dish of greens. The plant is very hardy and is grown extensively in the south for shipment. The leaves are long and of an attractive bright green color. This sort is often used for garnishing. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Siberian A very vigorous growing variety of spreading habit, its green foliage having a distinctive bluish tinge or bloom. The leaves are very large, comparatively plain in the center but are cut and frilled at the edges. Very hardy, a favorite for greens and in many sections is extensively grown for forage. Sometimes called Sprouts or German Greens. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.



DWARF CURLED SCOTCH, OR GERMAN GREENS

German Dwarf Purple Like Dwarf Curled Scotch but rich, purple color. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

KOHL RABI The edible part is the turnip-shaped bulb formed above ground. It is tender and excellent when used before fully grown, combining somewhat the flavors of cabbage and turnip. Seed should be sown in light, rich soil as early in spring as possible in rows one and one-half feet apart and when well established thin to six inches apart in the row. Plantings at intervals of ten days will give a succession until hot weather, when they fail to grow well. Plantings may be made the latter part of July for fall use.

Early White Vienna (Extra for forcing) Extremely early with distinctly small tops. Bulbs of medium size, very light green or nearly white, and of the best quality if used when not more than two inches in diameter. Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00

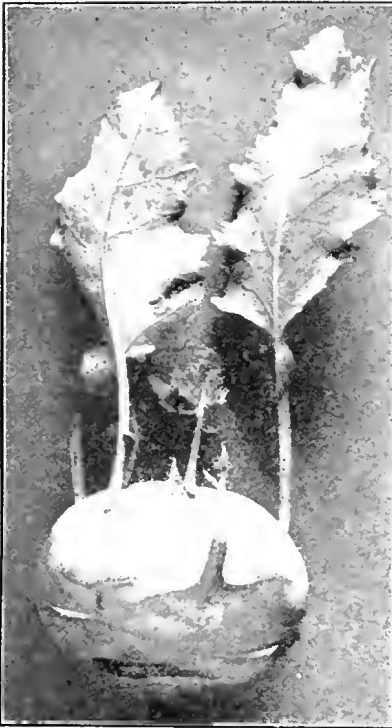
Early Purple Vienna Very early, with small top, the leaf stems being tinged with purple. Bulbs of medium size, purple, flesh white. Desirable for forcing and early outdoor planting. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25

Large Green Hardy, quite late and used for feeding stock. Bulbs large, weighing eight to ten pounds when fully grown, whitish green in color; leaves large and very numerous. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

LEEK Belongs to the onion family. Sow early in spring in drills twelve to fifteen inches apart, covering with one-half inch of fine soil firmly pressed down. Thin so as to leave two plants to a foot of row and draw the earth about them when cultivating. If one desires very white and tender leeks transplant when about



MONSTROUS CARENTAN LEEK



EARLY WHITE VIENNA

six inches high, setting four inches apart in trenches about two feet apart and gradually earth up like celery.

London Flag This variety is hardy, of good quality, and is extensively cultivated in this country. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25

Large American Flag A variety similar to, but larger than the London Flag; very popular with some market gardeners. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25

Large Rouen Stems very large but comparatively short; the leaf is very broad, covered with whitish bloom. Stands a long time in condition for use. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25

Monstrous Carentan The largest variety, often three inches in diameter and becoming very white and tender. An exceptionally hardy and desirable sort. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

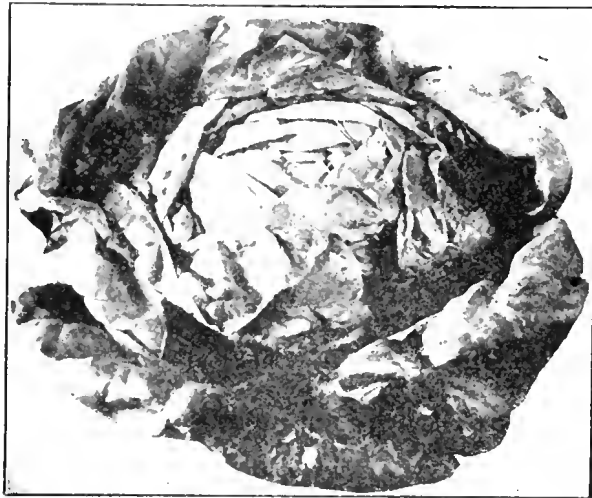
LETTUCE

For early outdoor culture in the latitude of Cincinnati and southward the seed may be planted in the fall, protecting the young plants from severe freezing either with frames or coarse litter which may be removed as soon as danger of severe freezing is over. Lettuce in ground out of doors will stand some freezing but is killed by prolonged frost or frequent freezing and thawing. North of Cincinnati an early crop may be secured by starting under glass from January to March and hardening off well before setting in ground, which should be done as soon as weather will permit.

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

Varieties marked *X* are particularly adapted for culture under glass and for early spring use. Those marked *w* were sometimes grown under glass, but are especially desirable for outdoor, summer culture. *Big Boston*, *Brown Dutch*, *California Cream Butter*, *Deacon* and *Jersey Winter* are very hardy and suited for winter outdoor culture in the south.

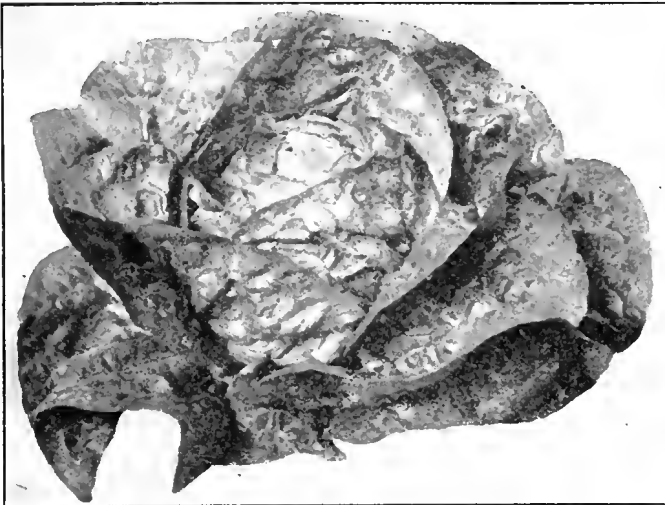
CABBAGE OR HEADING VARIETIES



MAY KING

May King *A. (Seed white)* A handsome, extremely early, compact, cabbage or heading variety, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish brown when mature, inner leaves blanch rich golden-yellow, very tender and buttery. Plant very compact for so large a head. Exceptionally early outdoors, attaining a size suitable for use before other sorts, and also very satisfactory for forcing. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

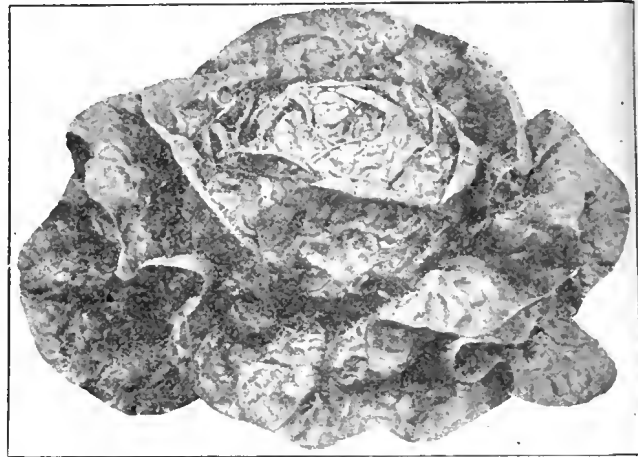
Boston Forcing *A. (Seed white)* A medium sized, light green, compact, very early heading lettuce of excellent quality and especially desirable for forcing. Outdoors it is one of the earliest to form a head under favorable conditions. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**



BIG BOSTON

Early Tennis Ball *A. (Seed black)* One of the best heading lettuces, especially desirable for early planting outdoors and also suitable for forcing. Plants large, having thick, bright green leaves, forming very solid heads, the inner leaves blanching to a rich, creamy white, and are crisp, tender and buttery. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

Salamander *B. (Seed black)* A large, compact, light green head of excellent quality. The leaves are broad, thick, somewhat crumpled and closely overlapping so that the inner ones are very finely blanched. The variety withstands hot weather remarkably well. It is one of the most satisfactory heading lettuces for growing outdoors. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**



SALAMANDER

Hubbard's Market *A. (Seed white)* A thick leaved, bright green heading variety, forming a large, very compact head similar in type to Salamander, slightly larger, but a little later maturing. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

Mammoth Black Seeded Butter *B.* A smooth leaved lettuce forming very large, compact, cabbage-like heads of thick, yellowish green leaves, the inner ones beautifully blanch, very crisp, tender and buttery. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

Deacon *B. (Seed white)* This is an excellent summer variety. The heads are of large size, very firm and remain in condition for use a long time. The plant is very compact, with few outer leaves which are usually very smooth, thick and of light green color. The inner leaves blanch to a bright, rich yellow and are crisp, buttery and very well flavored. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

Big Boston *A. (Seed white)* Popular for outdoor culture; also much in demand as a compact, large heading, forcing sort. Plants large, very hardy and vigorous. Leaves broad, comparatively smooth but wavy at edge, thin, very hard and crisp; color bright light green, the head slightly tinged with reddish brown. Grows extensively in the south for shipment north in the winter. It usually heads up under cold weather conditions better than any other variety, and we therefore heartily recommend it, especially to the market gardening trade. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00**

LETTUCE—CABBAGE OR HEADING—Continued

California Cream Butter or **Royal Summer Cabbage** b. (*Seed brown*) A very reliable heading sort, with glossy, deep green leaves, the outer ones slightly spotted or splashed with brown. The inner leaves form a large, very solid head, rich light yellow in color, very thick, tender and buttery. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Brown Dutch b. (*Seed black*) Outer leaves large, thick, green tinged with brown and covering a solid head which is beautifully blanched, sweet, tender and well flavored. Desirable because of its hardiness and well adapted to planting in the south as a winter lettuce. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Jersey Winter A. (*Seed white*) A light green, loose heading, medium sized lettuce. The variety is very hardy and when wintered over it has proven to be one of the very earliest to mature its heads. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Hanson b. (*Seed white*) One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. Outer leaves bright yellowish-green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. Inner leaves white, very crisp and sweet. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

CURLED OR LOOSE LEAVED VARIETIES

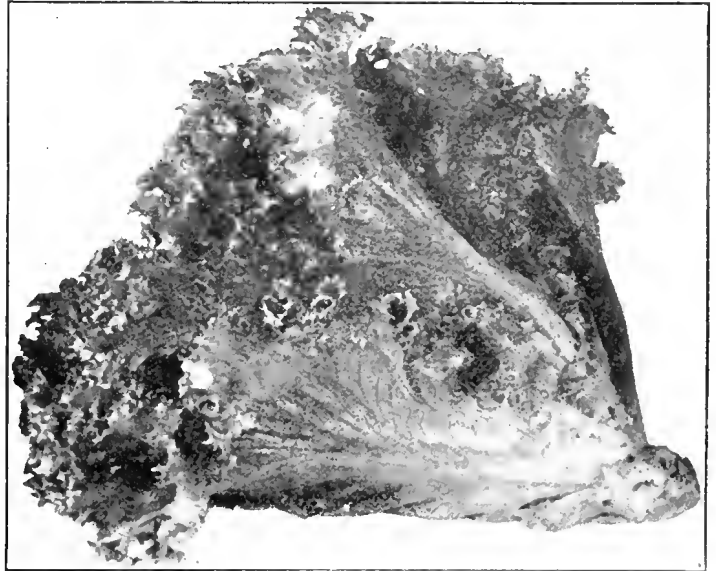
Grand Rapids A. (*Seed black*) As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, hardy, little liable to rot and remaining in condition several days after being fit to eat. The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting so that the variety will stand shipping long distances better than most sorts. Very attractive and desirable for garnishing. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Detroit Market A. (*Seed white*) Excellent for growing under glass where it stands higher temperature than Grand Rapids and can be crowded to maturity. Also well adapted for outdoor growing. Plant more compact than Grand Rapids, lighter colored and less frilled at edge of leaves which are crisp and tender. Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00

Simpson's Early Curled b. (*Seed white*) A very extensively used early loose leaved, or clustering variety. Leaves light green, slightly frilled and much blistered, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Ferry's Early Prize Head b. (*Seed white*) A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. Leaves finely curled and crumpled, bright green tinged with brownish red, very crisp, tender and sweet. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Black Seeded Simpson A. One of the best for sowing outdoors where an exceedingly tender leaf is desired and for those markets which demand a very large, loose clustering sort of a light yellowish green color. Leaves ruffled and blistered and even the large outer ones are very tender. Uniformly attractive and remains of excellent quality a very long time. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50



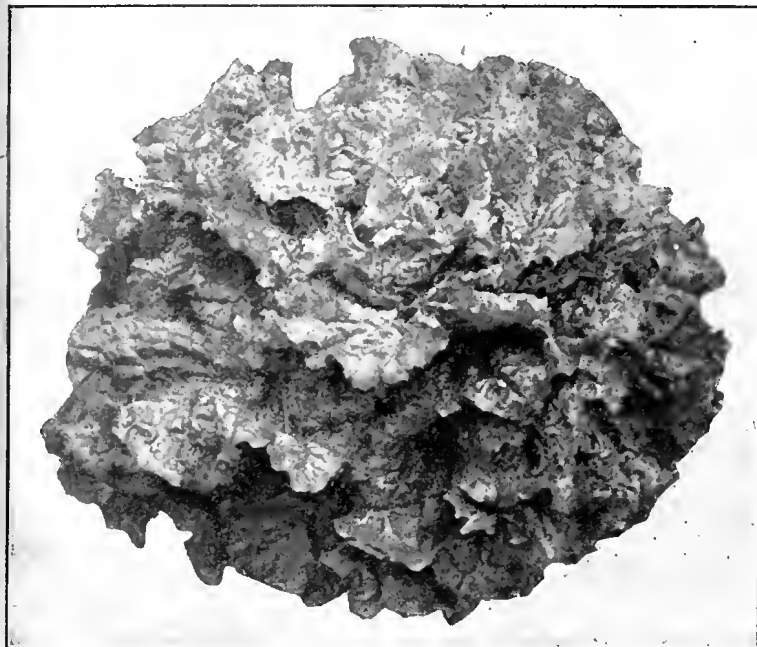
GRAND RAPIDS

Denver Market b. (*Seed white*) A much frilled, bright green clustering lettuce, forming a loose medium sized head, the inner leaves well blanched and finely crumpled. An outdoor summer sort, desirable also for forcing. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Cos Lettuce (*Romaine*) Cos Lettuce is distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf shaped heads which blanch better by having the outer leaves drawn about them and tied. Sow seed early in spring in rich, well prepared soil, in rows eighteen inches apart, covering one-half inch deep. When plants have two or three leaves thin to three or four inches apart. As the plants begin to crowd thin and use as required. If large heads are desired plants should be thinned ten to twelve inches apart.

Early White Self-Folding (*Seed white*) Leaves yellowish white, crisp, tender and of good quality; a self-blanching lettuce of superior flavor. Sold also as Romaine or Trianon. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50

Martynia PROBOSCIDEA A strong growing, hardy, annual plant with numerous seed pods which when young and tender are highly prized for pickling. Sow in rich, warm soil when danger of frost is past, in drills three feet apart and thin to two feet apart in the row. Pkt. 10c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00



FERRY'S EARLY PRIZE HEAD

MUSK MELON

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

If the plants grow very rank, more and finer fruit will be secured by allowing the main branch to continue growing by pinch off the end of each side branch after it has one fruit set. The quality of melons of all varieties is largely dependent upon conditions of growth and ripening. Unhealthy vines or unfavorable weather produces fruit of comparatively poor flavor. The plants are liable to attack from the striped beetles which are so numerous in some cases as to destroy them. The beetles may be kept off by frequent dusting with air-slaked lime, soot or sifted ashes diluted with fine road earth. Care should be taken not to use too much of any of the above materials or the vines will be injured. Should even the diluted material prove injurious to the vine, use road earth only, as frequent dusting with this alone will often prove effective especially if a wind is blowing.

GREEN FLESHED VARIETIES

Extra Early Citron A small, round melon, valuable on account of its extreme earliness, hardness and great productivity. The skin is green, becoming yellowish at maturity. The flesh is light green, sweet and good quality. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

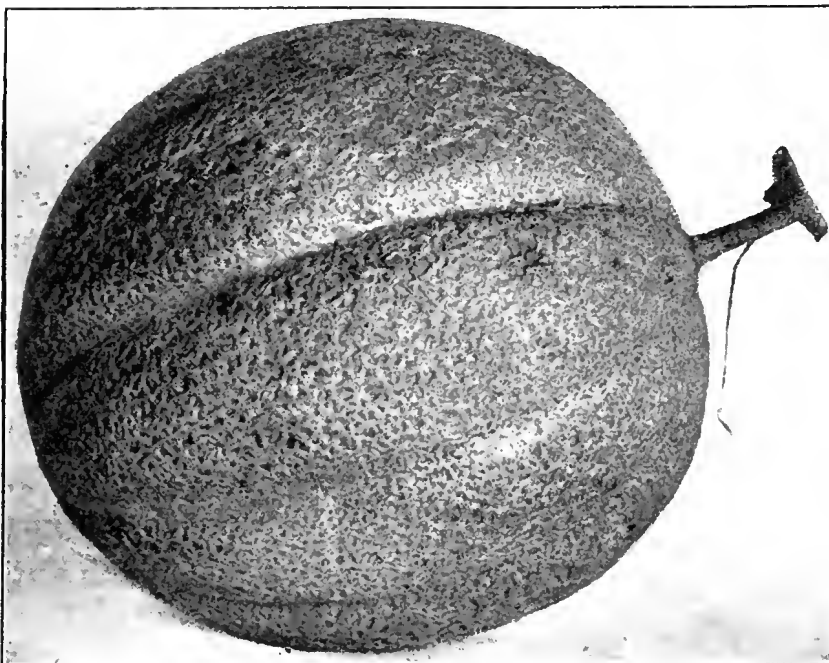
Jenny Lind Vines rather small but vigorous and productive. Fruits small, somewhat flattened, deeply ribbed and netted. Flesh green and exceedingly sweet. This variety ripens early and on account of its size is desirable as a table melon. We know of no green fleshed melon maturing equally as early that is of more excellent quality. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Extra Early Hackensack We offer under this name distinct stock, very different and much superior to that often sold as Extra Early Hackensack. The fruits are nearly two weeks earlier than Hackensack, medium to large sized, nearly round or somewhat flattened, evenly and deeply ribbed and with very coarse netting. The skin is green, slightly tinged with yellow as the fruits mature. The flesh is green, a little coarse but juicy and sweet. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

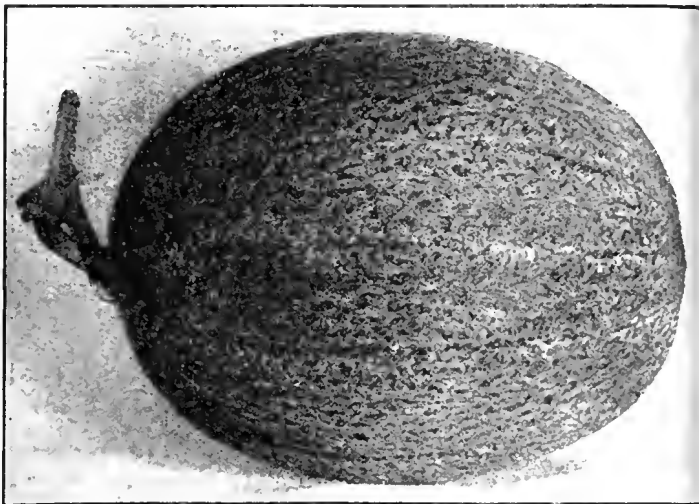
Netted Gem, or Rocky Ford This has become one of the most popular of small or early melons and is shipped in large quantities from Colorado and Arizona. The vines are vigorous and productive. The fruits are oval, slightly ribbed, densely covered with fine netting. Flesh green, very sweet and highly flavored. We offer an exceptionally fine stock of this early sort, the fruit being very uniform in shape and quality and of the even size that is so desirable in a shipping melon. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Baltimore, or Acme The fruits are medium sized, oval or long oval, slightly pointed at stem end, slightly ribbed, and are covered when ripe with coarse netting. The flesh is thick, green, well flavored and sweet. This variety is a very productive, sure cropper of good quality. One of the most desirable green fleshed melons of medium size. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Cosmopolitan This variety, combining, as it does, the firm, sweet flesh of the French Cantaloupe and the delicious flavor of the American Musk Melon, is truly cosmopolitan in character. It is the most beautiful of the green fleshed melons. The fruits are of medium size, nearly round or slightly oval, without ribs. The skin is light green in color becoming covered at maturity with dense silver gray netting. The flesh is green, firm, sweet and uniformly high flavored. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25



TIP TOP



NETTED GEM, OR ROCKY FORD

Champion Market The fruits are large, round or slightly oval, slightly ribbed and covered with dense netting. Flesh is green, very thick and sweet. The variety is an improvement on Montreal earliness and productivity and will suit those who like a large, sweet, green fleshed sort. It can always be depended upon for a good crop. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Hackensack, or Turk's Cap A very large, green fleshed melon. Vines hardy, vigorous and productive. Fruits nearly round, usually somewhat flattened; ribs large and of irregular width, densely covered with coarse netting. Flesh green, thick, coarse but juicy and sweet. Our stock is true to the "Turk's Cap" type and after careful comparison with that of other growers we do not hesitate to pronounce the best in the country. Often sold as Improved Large Green Nutmeg. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

Bay View Fruits are of largest size, frequently weighing ten to fifteen pounds, long, distinctly ribbed and covered with coarse netting. The skin is green, becoming slightly yellow as fruits ripen. The flesh is green, thick and of fine flavor. This variety is by far the best of the large green fleshed melons and so hardy that we especially recommend it to inexperienced cultivators. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

MUSK MELON—Continued

ORANGE FLESHED VARIETIES

Emerald Gem A very early, yellow fleshed melon of small to medium size. One of the very best for the home garden. The vines are vigorous and productive. The fruits are globular or slightly flattened, somewhat irregularly ribbed and very slightly netted. The skin is deep green while young, becoming slightly tinged with yellow as the fruit matures. The flesh is deep salmon-yellow, thick, ripening close to the rind, juicy, melting and very highly flavored. This splendid variety in many large markets leads all other kinds on account of its sweetness and convenient size. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

Tip Top This very productive melon is of large size, nearly round, slightly ribbed and fairly well covered with shallow netting; skin light yellow when mature. The flesh is deep yellow in color, very rich and highly flavored. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

Surprise Vines hardy and productive; fruit medium to large size, oval, distinctly ribbed, covered with slight patches of netting; skin light yellow when mature. Flesh deep salmon color and of excellent quality. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

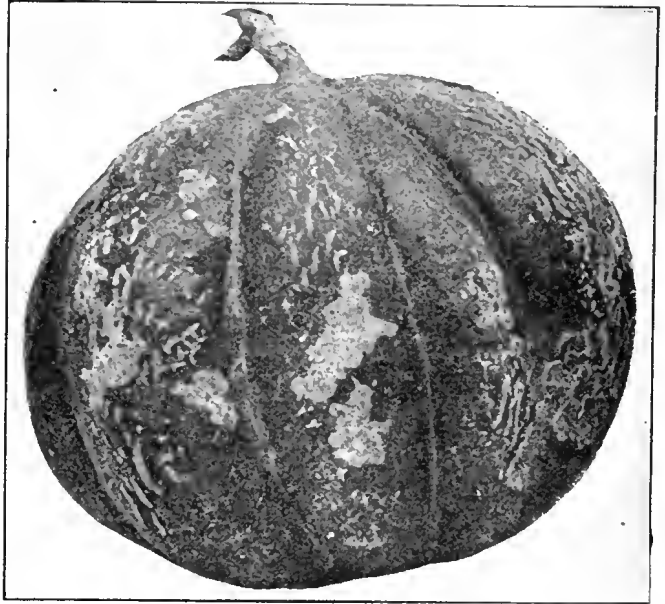
Extra Early Osage Fully a week earlier than the Osage, fruits a little smaller, more nearly round and the netting extends over more of the surface. These very desirable features, combined with the thick, deep salmon colored flesh and small seed cavity characteristic of the Osage, make this melon deserving of a place in every home and market garden. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

Petoskey, or Paul Rose A yellow fleshed sort of suitable size for a crate melon and of excellent quality. The vines are vigorous and productive. The fruits are oval, slightly ribbed and densely netted. In general appearance they are much like Netted Gem but larger. The flesh is orange-yellow, very thick, firm, sweet and highly flavored. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

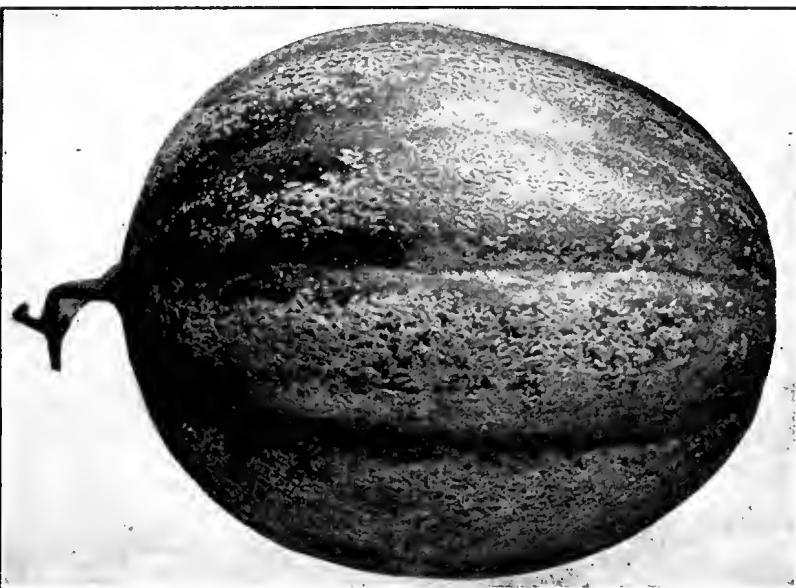
Admiral Togo We have developed in the Admiral Togo a small musk melon with the very thick, orange flesh and splendid quality of the Defender and possessing the characteristic netting, shape, size and shipping quality of Netted Gem or Rocky Ford. Combining all the good qualities of these two fine varieties we believe the Admiral Togo is an ideal table melon. Our stock is carefully bred in size and shape, is densely netted, with very thick flesh, ripening clear to the skin. We believe the seed we offer will meet the demands of the most discriminating buyers. We consider it the best small shipping melon yet introduced. (See cut in Supplement, page 8). **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

Hoodoo Sometimes sold as Ordway Queen. This is an orange fleshed variety, ideal as a shipping melon and of the very finest quality. The vines are vigorous, remarkably blight resisting and very productive. The fruits are uniformly of medium size. The netting is exceptionally fine and dense, extending over practically the entire surface. The rind is thin yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, highly colored, of fine texture and delicious flavor. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

Defender This is one of the best yellow fleshed sorts and in some respects is far superior to any of this class. The fruit is medium sized, oval in shape, slightly ribbed, covered with gray netting. The flesh is firm, fine grained, rich, deep yellow, darker than that of the Osage and of higher flavor. The flesh extends to the rind and retains its color and quality quite to the outer shell which, though thin, is very hard and firm so that one can remove the edible portion with a spoon, leaving a rind no thicker than that of an orange. The vines are vigorous and very productive. The fruit because of the hard, firm rind, keeps and bears shipment remarkably well. This splendid variety was originated and introduced by us in 1901 and we have taken pride in maintaining our stocks in the highest state of purity and excellence. We believe it to be identical with the melon introduced six years ago and sold largely as Burrell's Gem. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**



EMERALD GEM



OSAGE

Osage, or Miller's Cream A medium to large sized, salmon fleshed melon of excellent quality. The vines are vigorous and productive. The fruits are oval, dark green in color, slightly ribbed and partly covered with shallow gray netting. The flesh is salmon colored, thick, fine grained and highly flavored. A favorite variety for the later markets, as there is always a considerable demand for it from the restaurants and hotels, where its excellent qualities are highly appreciated. We have taken a great deal of pains to develop the thick, deep, rich colored and finely flavored flesh of this sort, and careful comparisons on our trial grounds prove it to be unequalled, even by "special selected seed" offered at very high prices. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

WATER MELON

To make certain of raising good Watermelons, it is essential that the plants have a good start and to this end it is important to prepare hills about eight feet apart, by thoroughly working into the soil an abundance of well rotted manure—hen manure, guano, or other forms rich in nitrogen, being most desirable. Over this highly manured soil put an inch or more of fresh earth and plant the seeds on this, covering them about an inch deep. It is important that the seed should not be planted before the ground becomes warm and dry, as the young plants are very sensitive to cold and wet. Put ten or twelve seeds in a hill. When the plants have formed the first pair of rough leaves, they should be thinned so as to leave two or three of the strongest and best to each hill. Frequent watering of the plants with liquid manure will hasten the growth, thus diminishing the danger from insect pests. The best protection against blight and insect pests is to maintain a vigorous and continuous growth. It is desirable to change the location as often as practicable.

Harris' Earliest An extra early melon of excellent quality. Fruits exceptionally large for so early a variety, slightly oval with irregularly mottled broad stripes of light and dark green. Flesh bright red, sweet and tender. Seed black. The vines are vigorous and productive. One of the best varieties for northern latitudes. We have carefully observed this splendid variety in our trials for several seasons and are convinced that it is the very best first early melon for the home garden. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

D. M. Ferry & Co's Peerless Sometimes sold as Ice Cream. One of the best early sorts for the home garden and for market gardeners who deliver direct to consumers. Vine moderately vigorous, hardy, productive. Fruit medium size, oval, but somewhat uneven in shape, bright green, finely veined with a darker shade. Rind thin, flesh bright scarlet, solid, crisp and very sweet. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Long Light Icing Our stock of this sort is much better than that usually offered and superior to many strains offered as Gray Monarch, etc. Fruits uniformly long and large, a little irregular in shape, light green, slightly veined with a little darker shade. Flesh deep, rich red, and of splendid quality. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Round Light Icing Fruit medium sized, nearly round, greenish white, slightly veined or dotted with light green. Flesh bright, light red, very sweet and tender. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.**

Dark Icing Fruit medium sized, nearly round, dark green, very indistinctly veined and mottled with lighter shade. Flesh very rich, bright red, sweet and of excellent quality. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.**



FLORIDA FAVORITE

Monte Cristo, or Kleckley's Sweets Unsurpassed or near markets. Vine vigorous and productive; fruit medium to large, oblong, tapering slightly towards the stem end, dark green, often showing fine russeting. Flesh very bright, rich red, exceedingly sweet. So crisp and tender that it will not stand shipping, the fruit bursting open if subjected to even a slight jar, or when the rind is penetrated with a knife. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 90c.**

Florida Favorite A splendid melon of very large size and excellent quality. Fruit long, dark green, mottled and striped with lighter shade; rind thin but firm. Flesh very bright, deep red, very sweet and tender. Vines vigorous and productive. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

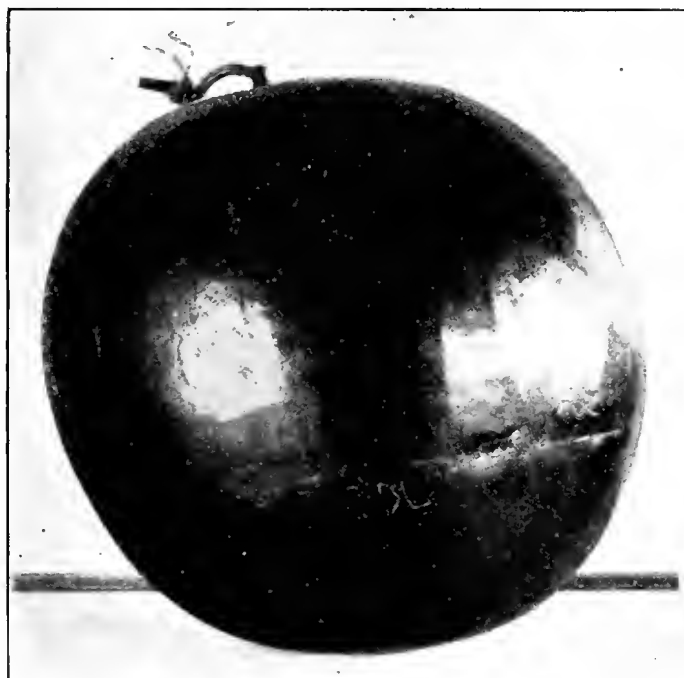
Alabama Sweet A very large, long melon of excellent quality; very popular in the south where it is grown extensively for shipping. Color rather deep green, with dark, irregular striping. Rind thin but very tough; flesh bright red, fine grained and sweet. Fruits average a little thicker than Florida Favorite. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Tom Watson A large, long melon similar in shape, color and splendid quality to Monte Cristo but averaging larger in size and with a tougher rind, making it especially adapted for shipping. Vines vigorous and productive. Flesh rich red, sweet and tender. Seed white, more or less marked with brown. A comparatively new water melon which is becoming very popular in the south. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

Ferry's Iceberg Introduced by us in 1902. In general shape, size and appearance it is similar to Kolb's Gem, but is distinctly darker and the skin where the melon rests on the ground is rich yellow instead of white as in that variety. It has a very firm, hard rind and is as good a shipper as Kolb's Gem but the flesh is much deeper colored, extends nearer to the rind, is more tender and sweet. Sometimes sold as Blue Gem. Seed black. The best dark colored round shipping melon yet produced. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Kolb's Gem A very large, round or slightly oval melon, often flattened on the ends, marked with irregularly mottled stripes of dark and light green. Rind exceedingly hard and firm, making it one of the best round sorts for shipping. In the south it is used very largely for the market. Flesh bright red, solid, a little coarse, but sweet and tender. Vines vigorous and productive. Seed black. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Chilian A new melon of splendid quality, already very popular on the Pacific coast and will doubtless take high rank elsewhere as soon as it is more generally known. Fruits medium sized, nearly round or slightly oblong, skin rich very deep green, indistinctly mottled and striped with a lighter shade. Flesh decidedly bright vermilion-red; remarkably fine grained but firm and very sweet. Quality equalled by few and surpassed by none for the home garden. Desirable also for shipping and keeps exceptionally well. Seed white. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.**



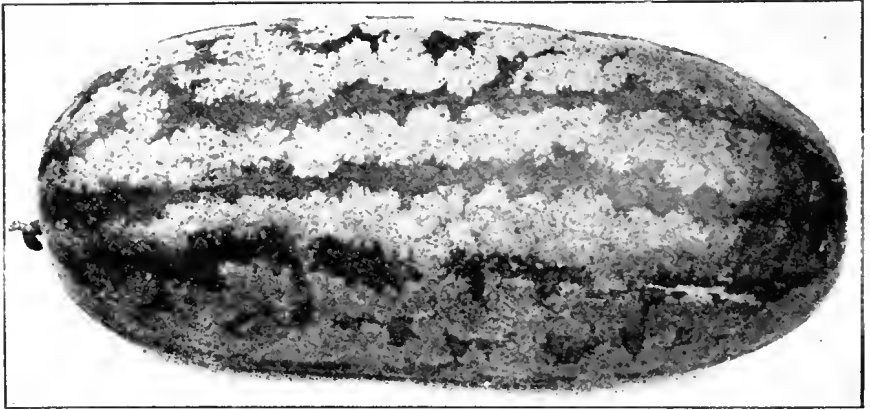
CHILIAN

WATER MELON—Continued

Sweet Heart Introduced by us in 1894 and is very popular as a shipping melon particularly in the south. Vine vigorous and very productive, ripening its fruit evenly. Fruit of largest size, oval, very heavy, and thin but firm; color very light green, very slightly veined with a little darker shade. Flesh bright red, firm but very tender and sweet. Fruit remains in good condition a long time after ripening. Seed black. Our stock will be found very uniform in shape, size and color. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Gypsy, or Georgia Rattlesnake One of the largest, oldest and most popular sorts, especially in the south. Fruit very long, of light green color, distinctly striped and blotched with a darker shade. Flesh bright scarlet, very sweet and tender. Vines large and vigorous. Seed nearly white. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Triumph A southern variety, used largely for shipping. Fruit of largest size, nearly round, dark green, sometimes in distinct stripes with a lighter shade and has a thin and firm rind which makes it an excellent shipper. Flesh bright red and of good quality. The vine makes a strong and vigorous growth and can be depended upon under ordinarily favorable circumstances to set a large number of fruits. Seed black. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.



GYPSY, OR GEORGIA RATTLESNAKE

Citron Medium size, uniformly round, used only for preserves or pickles. Color dark green, distinctly striped and marbled with light green. Flesh white and solid but not at all suitable for eating raw. Seed red. Fruits mature late in the fall and in this condition can be kept a long time. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

MUSHROOM The Mushroom is an edible fungus of which there are numerous varieties. We handle the ordinary commercial variety of a creamy white color with loose gills which underneath are of pinkish-red, changing to liver color. The mushroom produces "seed" or spores and there is developed a white, fibrous substance in broken threads, called spawn, which is developed and preserved in horse manure, pressed in the form of bricks. Mushrooms can be grown in cellars, in sheds, in hotbeds or sometimes in the open air, the great essential being a uniform degree of temperature and moisture. Our space is too limited here to give the necessary cultural directions, but these are published in book or pamphlet form. We can furnish, postpaid, for 35c., a book containing very complete directions for the culture of mushrooms. (See list inside of back cover)

PURE CULTURE MUSHROOM SPAWN. By a newly discovered process of selection and grafting, the spawn is scientifically propagated so that large, vigorous and finely flavored mushrooms are reproduced. The sort we offer is earlier, more productive and a marked improvement on wild spawn, either French or English. Brick (about 1¼ lbs.), postpaid 35c; 5 bricks, not prepaid, \$1.00

MUSTARD Mustard is not only used as a condiment but the green leaves are used as a salad or cut and boiled like spinach. Sow as early in the spring as the ground will permit, in drills about eighteen inches apart, covering one-half inch deep. For succession, sow every few weeks till autumn. Water freely. In the south the seed may be sown in autumn and the plants used early in the spring as a salad and for greens.

White English Leaves comparatively small and smooth, deeply cut or divided and of medium dark green color. Plant upright, of rapid growth and soon bolts to seed. Leaves, when young, are mild and tender. Seed light yellow and larger than that of other varieties. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 40c.

Southern Giant Curled Leaves large, light green with tinge of yellow, much crimped and frilled at edges. Plant upright or slightly spreading in growth. Highly esteemed in the south for its vigorous growth, hardness and good quality. Seed small, reddish brown to nearly black. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Large Smooth Leaved An excellent sort with very large, light green, plain or comparatively smooth leaves, borne well above the ground. Plant of very quick growth, fairly upright when young becoming somewhat spreading at maturity. This sort is preferred by many as it is more easily prepared for the table than the rougher leaved varieties. Seed small, reddish brown to nearly black. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

NASTURTIUM TALL MIXED GARDEN. Sometimes called Indian Cress. Grown not only for ornament but the beautiful orange colored flowers and foliage are used for garnishing and the young leaves or shoots are excellent for salads. The green seed pods are greatly esteemed by many for use in mixed pickles. Early in spring sow, preferably in rather light soil, in rows three feet apart and two inches apart in the row, covering one inch deep. When the young plants are about four inches high thin to six inches apart in the row. The vines can be supported if so desired by stakes, strings or brush. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c. For other varieties of Nasturtium see page 80.

OKRA, OR GUMBO The young seed pods are used in soups, stews, eat-sups, etc. Highly esteemed in the south. After danger of frost is past, the ground being warm and in good condition, plant in rows about two and one-half feet apart, covering with about an inch of fine soil firmly pressed down. When about three inches high, thin to about one foot apart in the row. Cultivate and keep free from weeds. The pods are in best condition for use when from one to three inches long.

White Velvet Plant is about three and one-half feet high, early maturing and very productive. Pods white, long, smooth and are tender until nearly full sized. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Perkins' Mammoth Long Pod This variety is about three feet high, very early and productive. Pods deep green, very long, slender, slightly corrugated, very tender and of good quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Dwarf White Plants are about three and one-half feet high and very productive. Pods of medium length, greenish white, quite thick, slightly corrugated, tender and of good quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.



WHITE VELVET OKRA

ONION

The Onion not only contains considerable nutriment and has valuable medicinal properties, but is most useful in counteracting the bad effects of sedentary life. The disagreeable odor it imparts to the breath may be avoided in a great measure by thorough cooking, or by eating a few leaves of parsley.

In onion culture, thorough preparation of the ground, careful sowing and the best of after culture, though essential for a full yield, will avail nothing unless seed of the best quality be used. Given the same care and conditions, the product from two lots of onion seed of the same variety but of different quality may be so unequal in the quantity of merchantable onions that it would be more profitable to use the good seed though it cost twenty times as much as the other. Our equipment and experience enables us to produce onion seed that is unsurpassed. The seed we offer is the best obtainable. *Although onions are often raised from sets and from division, by far the best and cheapest mode of production is from seed. The facility with which seed is sown and the superior bulbs it produces, recommend it for general use.*

As early in spring as ground can be worked, sow in rich soil, thoroughly pulverized and leveled, in rows fifteen inches apart, covering one-half inch deep. When the plants are well up cultivate, thin out as desired and keep free from weeds. When grown for bunching the rows need to be only about one foot apart and the plants thinned about one inch apart in the row. The same location may be used for a succession of years if the ground is kept rich by applications of well rotted manure or other suitable fertilizer and is thoroughly worked at proper intervals. Where climate permits seed may be sown early in winter. If onions are to be grown for the market the following suggestions should be given careful consideration.

HOW TO RAISE ONIONS FOR THE MARKET

THE SOIL. We prefer a soft, dark sandy loam, not too fine. This is much better if it has been cultivated with hoed crops, kept clean from weeds and well manured for two years previous, because if a sufficient quantity of manure to raise an ordinary soil to a proper degree of fertility is applied at once, it is likely to make the onions soft. The same result will follow if we sow on rank mucky ground or on that which is too wet and it is impossible to raise either a large or profitable crop on stiff clay, very light sand or gravel.

PREPARATION. Onions respond well to very liberal manuring. As much as forty loads of stock manure well composted or one ton of high grade commercial fertilizer per acre may be applied to good advantage. The stock manure should be spread and worked into the top soil in the fall but if commercial fertilizer is used it should be distributed and thoroughly worked into the top soil after plowing in the spring. A liberal use of potash is very beneficial to the crop especially when raw manure is used or if the soil is rank and mucky, as potash reduces the tendency to scallions or coarse necked bulbs. The top soil should be cleared of everything that will interfere with the best possible work with drill and wheel hoe. The whole ploughed soil should be well pulverized and worked with tools that leave the surface smooth and compact.

SOWING THE SEED. This should be done as soon as the ground can be made ready and can be done best by a hand seed drill. This should be carefully adjusted to sow the desired quantity of seed about one-half inch deep. The quantity

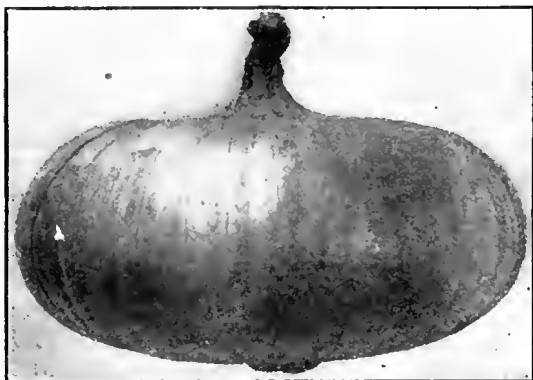
needed will vary with the soil, the seed used and the kind of onions desired. Thin seeding gives much larger onions than thick seeding. Four or five pounds per acre is the usual quantity needed to grow large onions. We prefer a drill that sows a very close row.

CULTIVATION. As soon as the young plants can be seen in the rows give a shallow working either with rake or some other tool that pulverizes well the whole top soil. Work the crop again in a few days with a hoe or tool that cuts the ground over, this time as closely as is possible to the row without injury to the young plants; follow as quickly as possible with a thorough hand weeding keeping in mind that a very small weed today is a large one next week. The ground should be cultivated once a week if possible and any remaining weeds pulled out by hand every two weeks. For best results these operations should be continued until the crop occupies the ground.

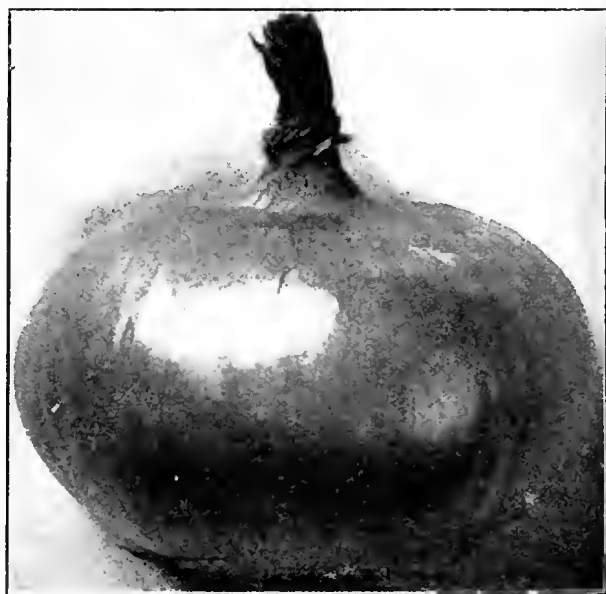
GATHERING. As soon as the tops die and fall the bulbs may be pulled and raked into small open windrows, turning every few days with a rake. At convenience cut off the tops half an inch to an inch from the bulbs and very soon afterward the bulbs may be picked up in crates and piled loose under cover. The large onion growers use a puller attachment to the wheel hoe that runs under the row of onions and lifts the bulbs. Where help can be procured readily we find it much cheaper to top the onions with a rough edged case knife and rake away the tops before pulling.

It will not do to store onions in large piles or masses, particularly in warm weather, or if they are the least moist, but if perfectly dry when gathered and stored in crates, they can be kept in fine condition till spring. The best way is to keep them dry, giving bottom ventilation if possible, and at a uniform temperature of about 32° to 34° F.

Extra Early Red Although the first of the red sorts to ripen, the bulbs are firm and keep remarkably well for so early a variety. A very hardy, medium sized, flat variety that yields well and is very uniform in shape and size. Skin uniformly rich purplish red; moderately strong flavored and comes into use about a week or ten days earlier than Large Red Wethersfield. Flesh white with tinge of light purple. Succeeds in cool soils. Very desirable for early market use. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50



EXTRA EARLY RED



LARGE RED WETHERSFIELD

Large Red Wethersfield This is the standard red variety and a favorite onion in the east, where immense crops are grown for shipment. Bulbs large, flattened yet quite thick. Skin deep purplish red; flesh light purplish white, moderately fine grained, rather strong but of pleasant flavor. Very productive, one of the best keepers and very popular for general cultivation. This medium early or main crop variety does best on rich, moderately dry soil, but on low muck land it is more apt to form large necks than the Danvers. There is no better sort for poor and dry soils. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

ONION—Continued

Southport Red Globe The bulbs are of medium to large size, ideally globe shaped, with very smooth, glossy surface, very small neck and remarkably beautiful deep purplish red color. The flesh is white, tinged with light purple, mild, very fine grained and tender. One of the best keepers, well adapted for shipping. Our splendid stock of this medium early or main crop onion is the result of years of careful selection on our Oakview Stock See 1 Farm and is unsurpassed by any. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

Large Yellow Dutch, or Strasburg The bulbs are large and quite flat. The skin is light yellow or straw colored, and the flesh creamy-white, mild and of excellent quality. Ripens down quickly and keeps well. Our stock of this early variety, compared with most on the market, is distinctly superior in size of bulb, uniformity of shape and evenness of color. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

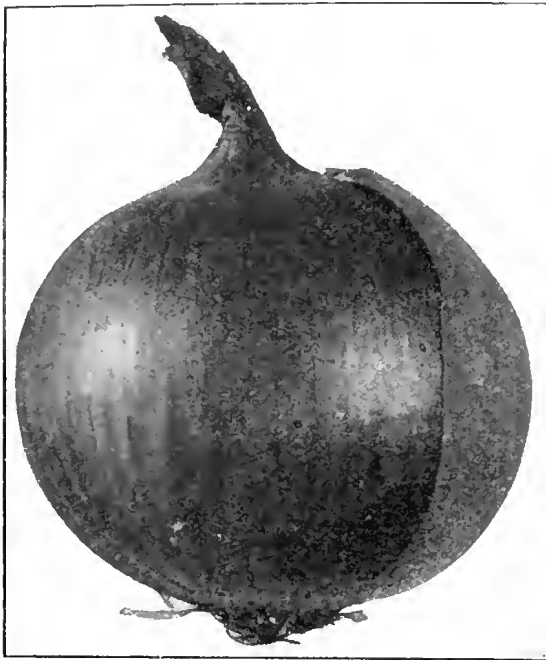
Yellow Danvers A productive and very extensively used early or main crop variety of medium size. The skin is light coppery yellow in color. The flesh is creamy-white, mild and of excellent flavor. The bulbs are flattened yet quite thick with small necks, ripen down quickly and very evenly and keep very well. This is still a standard, general crop, yellow onion where a strictly globe shaped bulb is not demanded. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**



SOUTHPORT RED GLOBE

Southport Yellow Globe This very hardy and exceedingly productive late or main crop variety is of the same general character and quality as the Southport Red Globe, but the color is a rich yellow. Bulbs large, globe-shaped with rather full shoulder, ripen down very evenly, keep well and are suitable for shipping. Flesh creamy-white, fine grained, and of mild and excellent flavor. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

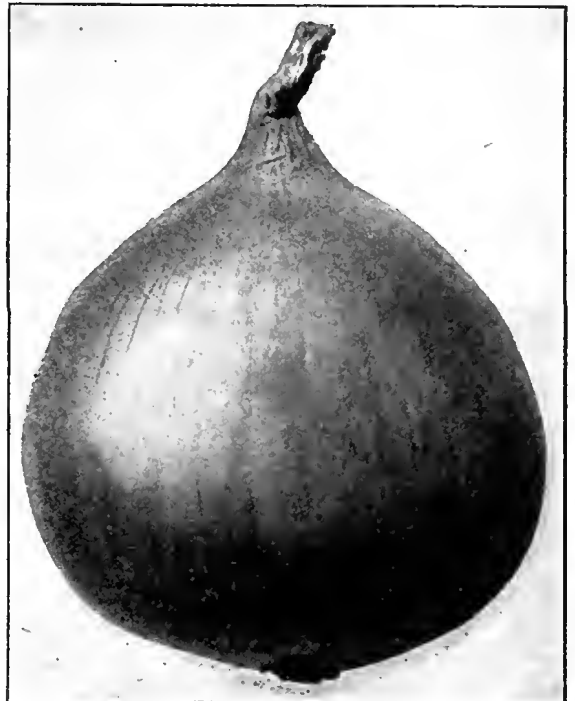
Mammoth Yellow Spanish, or Prizetaker A very handsome late or largest size and nearly globular in form, usually with shoulder and base slightly sloping. Skin is yellowish-brown or light yellow with slight tinge of brown; flesh creamy-white, very mild, tender and of excellent flavor. Keeps well if thoroughly ripened; very desirable for shipping. It is one of the best of the large European sorts that has become thoroughly acclimated in America and is exceptionally productive under proper conditions. If started very early in hotbed it will produce a mammoth onion the first season. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**



YELLOW GLOBE DANVERS

Yellow Globe Danvers One of the most extensively used main crop yellow onions. Bulbs of medium to large size, uniformly globe shaped, with small neck, and ripen very evenly. Skin rich coppery yellow; flesh creamy-white, crisp, and of mild and excellent flavor. Keeps very well; excellent for shipping. We have by careful selection and breeding developed a strain which has the ripening habit and small neck of the original Danvers and yet is more globular, thus giving larger yields and handsomer bulbs without sacrificing any of the good qualities of the original Danvers. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

Michigan Yellow Globe The heaviest yield of onions is always obtained from rich, black lands. On such soils it is found that a globe shaped onion with a somewhat flattened base gives the largest returns and to meet the demands of the professional onion growers located on such lands, we have developed this variety. The bulbs are large, uniformly globe shaped, with small necks; shoulder usually slightly sloping, base often distinctly flattened, the largest diameter below the center of the bulb. Color rich yellow with tinge of orange. Flesh creamy-white, mild and of very fine quality. A main crop sort that ripens down very evenly. Keeps very well and is excellent for shipping. No onion grower can afford to plant inferior seed when such as this can be procured. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

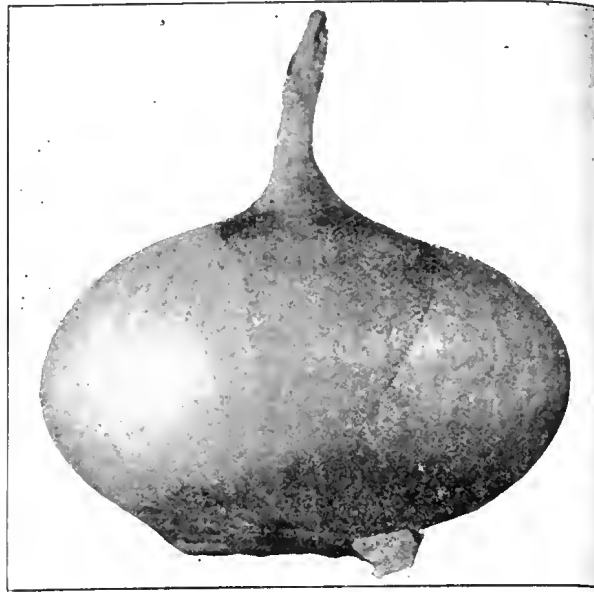


MICHIGAN YELLOW GLOBE

ONION—Continued

White Portugal, or American Silverskin A medium sized onion of mild flavor and with beautiful, clear white skin. A favorite with many for use when young as a salad or bunching onion and for pickles. It usually matures about ten days earlier than White Globe and is fine for fall and early winter use. An excellent medium early sort for gardeners who do not care to plant more than one variety. Bulbs nearly round when of bunching size, somewhat flattened when mature. The best flattened white onion for northern latitudes. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

White Globe A most desirable medium early or main crop variety for the home garden. Yields abundantly, producing medium to large, handsome and finely shaped, clear white bulbs. The flesh is firm, fine grained, quite mild in flavor and is more attractive than the colored sorts when cooked. Sometimes called Southport White Globe. Bulbs globe-shaped, full at the shoulder, rounded at the base, keep well and are desirable for shipping. To produce the beautifully white onions so much sought in every market, one must first of all have good seed; second, grow them well on rich lands; third, exercise great care in harvesting and curing the crop. In Southport they "cord" up the onions in long rows, the bulbs on the inside and cover with boards, so that the bulbs in the open air are well protected from rain or dew which would be sure to discolor them. We have by years of careful selection and breeding developed a strain which has no equal in uniformity and beauty of shape and color. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**



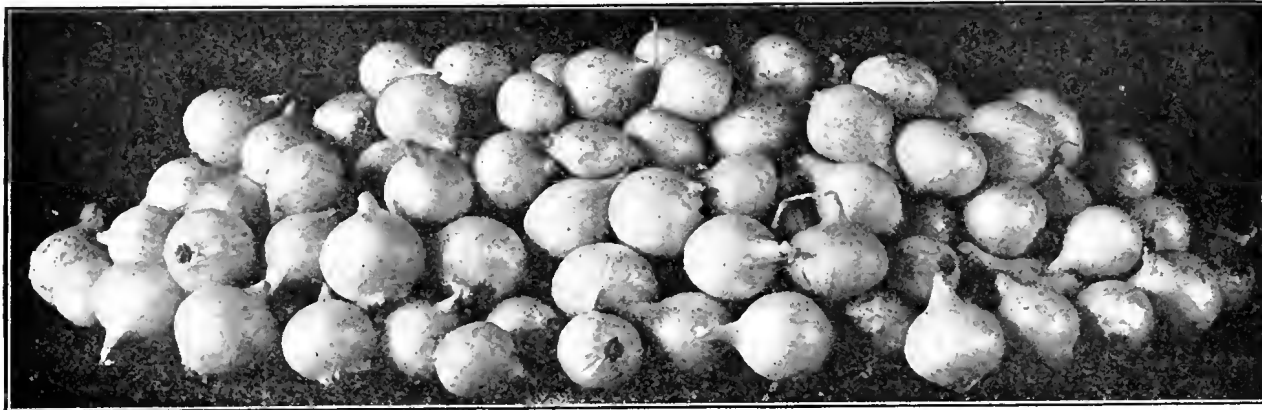
WHITE PORTUGAL

IMPORTED ONIONS

They are particularly adapted to southern latitudes where they are sown in the fall or early spring. The best results are obtained by sowing in beds or boxes and transplanting.

Extra Early Barletta An extremely early maturing variety, very white with silvery tinge and particularly desirable for pickling. Bulbs very small and quite similar to Queen. If seed is sown out of doors in spring in the usual manner and plants thinned about two inches apart they will produce bulbs one to two inches in diameter. If these bulbs are set out the following spring, or if plants are grown under glass in winter and set out in the spring, they will produce large onions. This variety and Queen are the ones most generally used in this country for producing the small pickling bulbs. For this purpose if the seed has been sown eight to ten seeds to the inch of drill, no thinning will be required. Growers usually plant the seed thickly in drills fifteen inches apart and use forty to fifty pounds to an acre. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.25**

Queen A very early, very white skinned variety of especial value for pickling. When allowed to reach full size the bulbs are quite flattened but as grown for pickles are nearly round. The large sized bulbs attain a size of about two inches in diameter. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00**



QUEEN

Early Neapolitan Marzajola An early and productive flat, white-skinned variety, desirable for early use and used for pickling. It can be sown in February or March and will mature a crop early in the season. In the south the seed can be sown in autumn and large onions produced in March. Known also as Early May. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

Giant White Italian Tripoli A large, pure white, flat onion of mild and excellent flavor. This medium early and productive variety will produce a larger bulb from seed than White Portugal, but to attain full size the seed should be sown very early in a hotbed and the young plants set out in rich soil. When grown under proper conditions the bulbs are often three to four inches across, with pure white skin. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

Mammoth Silver King This variety produces a very large onion, resembling Giant White Italian Tripoli, but of larger size, slightly later maturing and rather a better keeper, making the sort more desirable for the fall market. A very productive flat variety with bulbs often four to five inches across, the largest of the white onions. The skin is silvery white. The flesh is white, very tender and mild flavored. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$1.75**

ONION SETS

To raise onion sets from seed, use good ground prepared as for large onions and sow the seed very thick in broad drills, using forty to sixty pounds per acre. If the seed is sown thin, the bulbs will not only be too large for sets but will not be of the right shape and if sown thick on poor land they will be necky or bottle shaped. Onion seed sown for sets may be planted somewhat later than if a crop of large bulbs is desired.

RED BOTTOM SETS. Treated precisely as top onions are, setting them out in the spring instead of sowing seed. **Per Lb. 25c, postpaid; 100 Lbs. \$10.00**

WHITE BOTTOM SETS. These do not keep as well as the red or yellow, but produce beautiful white onions early in the season. **Per Lb. 30c, postpaid; 100 Lbs. \$12.00**

YELLOW BOTTOM SETS. Like the preceding except in color and used in the same manner. **Per Lb. 25c, postpaid; 100 Lbs. \$10.00**

The 100 pound prices of Onion Sets are by freight or express at purchaser's expense for transportation.

PARSLEY

Very useful for flavoring soups and stews and for garnishing. The green leaves are used for flavoring or they may be dried crisp, rubbed to powder and kept in bottles until needed.

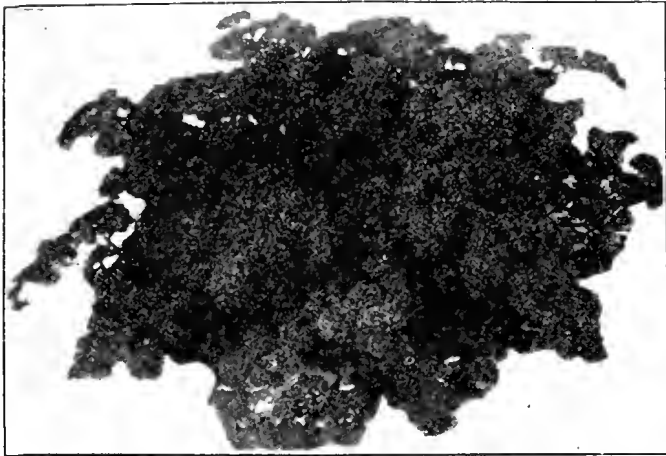
Parsley succeeds the best on rich, mellow soil. The seed is even slower than parsnip in germinating and should be sown as early as possible in the spring, in drills one to two feet apart covering not more than one-half inch with fine soil firmly pressed down. When the plants are well up thin to eight to twelve inches apart in the row. When the plants of the curled varieties are about three inches high cut off all the leaves; the plant will then start a new growth of leaves which will be brighter and better curled and later, if these turn dull or brown they can be cut in the same way; every cutting will result in improvement.

Plain The leaves of this variety are flat, deeply cut but not curled. Very desirable for flavoring soups and stews and for drying. It is a favorite on account of its very dark green leaves as well as its hardiness of plant. The curled sorts are more extensively used for garnishing. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

Champion Moss Curled This is a vigorous, compact growing variety, excellent for garnishing and flavoring, and a handsome decorative plant. Leaves very finely cut and so closely crisped or curled as to resemble bunches of moss. Owing to its uniformly fine deep green color and very attractive foliage, this is one of the most popular sorts for both the market and home garden. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**



PLAIN



CHAMPION MOSS CURLED

Hamburg, or Rooted The root is the edible portion of this variety and resembles a small parsnip both in color and shape. Flesh white, a little dry and in flavor is similar to celeriac. The foliage is practically the same as that of Plain Parsley. The roots can be dug late in the fall and stored in sand for winter use. Extensively used for flavoring soups and stews. This variety is sometimes called Turnip Rooted. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

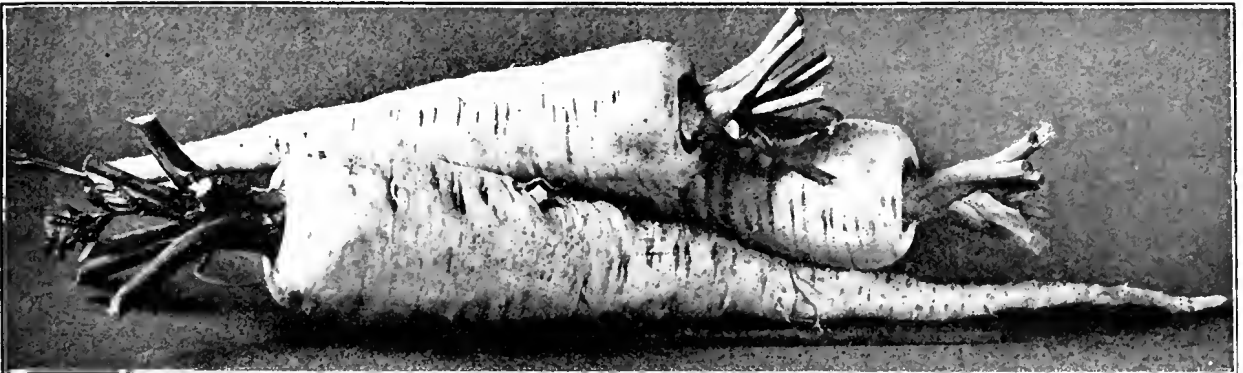
PARSNIP

The value of the Parsnip as a culinary vegetable is well known but is not generally appreciated at its full value for stock feeding. On favorable soil it yields an immense crop of roots, more nutritious than turnips and very valuable for dairy stock.

Parsnips are usually grown on deep, rich, sandy soil, but will make good roots on any soil which is deep, mellow and moderately rich. Fresh manure is apt to make the roots coarse and ill shaped. As the seed is sometimes slow and uneven in growth, it should be sown as early as possible in drills two and one-half feet apart, cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants to six inches apart in the row.

Long White Dutch, or Sugar This variety of parsnip is very hardy and will keep well through the winter without protection. The roots are long, white, smooth, tender and of most excellent flavor. Much used for the table and suitable also for stock feeding. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

Hollow Crown, or Guernsey An excellent variety for the table. Roots long, with smooth white skin, uniform in shape, tender and of the best quality. The variety is easily distinguished by the leaves growing from the depression on top or crown of the root. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**



HOLLOW CROWN

PEAS

For early peas the soil should be light and warm, but for general crop a moderately heavy soil is better. Fresh manure and very rich or wet mucky soil should be avoided, as they cause a rank growth of vine at the cost of the quality of the peas; such soil is often the cause of early sorts maturing unevenly. Sow as early as possible a few of some early variety on warm, quick soil, prepared the fall before, planting in double rows six to eight inches apart and two and one-half to four feet between the double rows. The general crop can be delayed until later, but we have met with better success from sowing all the varieties comparatively early, depending for succession upon selecting sorts that follow each other in maturity. The peas will give quicker returns if covered only one inch deep and where earliness is most important they may be treated in that way. Larger pods and more of them will be produced if the seed be planted in trenches three to six inches deep and covered with only one or two inches of soil; when the plants are five or six inches high fill the trench level with the surface; this will secure deep rooting, prevent mildew and prolong the bearing season. If the peas be covered to the full depth at first, or if water be allowed to stand in the trenches they will not germinate or grow well. All varieties growing more than one and one-half feet do better if staked up or brushed when four to six inches high. The support is usually given by sharpened branches of trees set between the double rows.

EXTRA EARLY VARIETIES

Ferry's First and Best The earliest and most even strain of white, extra early peas, maturing so well together that sometimes a single picking will secure the entire crop. Vines vigorous and hardy, of medium height, about two and one-half to three feet, bearing three to seven straight pods of good size, about two and one-half to two and three-fourths inches long, each containing five to seven medium sized, smooth peas of fair quality. Seed small, smooth, yellowish-white. The stock we offer is much superior to most on the market and more even than similar strains sold as Extra Early, Rural New Yorker and Improved Early Daniel O'Rourke. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$7.50

Earliest of All, or Alaska By careful selection and growing we have developed a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium sized, bright green peas of good flavor. Vines of medium height, about two and one-half to three feet and of distinctive light color. Pods of good size, about two and one-half to two and three-fourths inches long. Seed small, smooth, and bluish green in color. Matures all the crop at once and is an invaluable variety for market gardeners and canners. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

Thomas Laxton A very early wrinkled variety of great merit. Vine vigorous, of medium height, about three feet, similar to that of Gradus, but darker in color, hardier and more productive. Pods large, often four inches long, with square ends, similar to but larger, longer, and darker than those of Champion of England and as uniformly well filled. The green peas are very large, of fine deep color and unsurpassed in quality. We are certain that the earliness and productiveness of this pea need only to be known to make it one of the most popular sorts for the market and home garden, as in appearance and quality it is one of the very best varieties yet produced. Pkt. 10c; Pt. 35c; Qt. 55c; 4 Qts. \$2.00; Bu. \$11.00

Gradus A very early, wrinkled pea. Vine similar in appearance to Telephone but of medium height, only about three to three and one-half feet. The pods are very large, about four and one-fourth inches long, very nearly as large as those of Telephone, uniformly well shaped, pointed, handsome and more attractive than those of the first earlies. Peas very large, of splendid quality and beautiful light green color which they retain after cooking. Practically the same as Prosperity. Pkt. 10c; Pt. 35c; Qt. 60c; 4 Qts. \$2.00; Bu. \$12.00

American Wonder The earliest of the dwarf, wrinkled varieties. Vines usually branching, about nine to twelve inches high and covered with well filled pods of medium size, about two and five-eighths to two and three-fourths inches long, containing five to eight large, exceedingly sweet, tender and well flavored peas. Seed medium sized, generally flattened, wrinkled and pale green. We have taken great pains in growing our stock and know it to be much better than that usually offered. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$8.50

Nott's Excelsior The best early, dwarf pea. It combines the good qualities of the American Wonder and Premium Gem peas. The vines are larger and more productive than American Wonder and earlier than Premium Gem and average about twelve inches high. Pods medium sized, about two and three-fourths inches long. The peas, in sweetness and quality are unsurpassed. Seed medium sized, wrinkled, green and somewhat flattened. A most desirable sort for the market gardener and unsurpassed for the home garden. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$8.50

Sutton's Excelsior An early, wrinkled pea, one of the largest podded of the dwarf varieties. It is also one of the most vigorous in growth of vine and is unsurpassed in quality. The pods mature very nearly as early as those of Nott's Excelsior but are broader and with the foliage distinctly lighter green. Pods large for so early a variety, two and three-fourths to three inches long. Vines about fourteen to sixteen inches high. Pkt. 10c; Pt. 60c; Qt. \$1.00

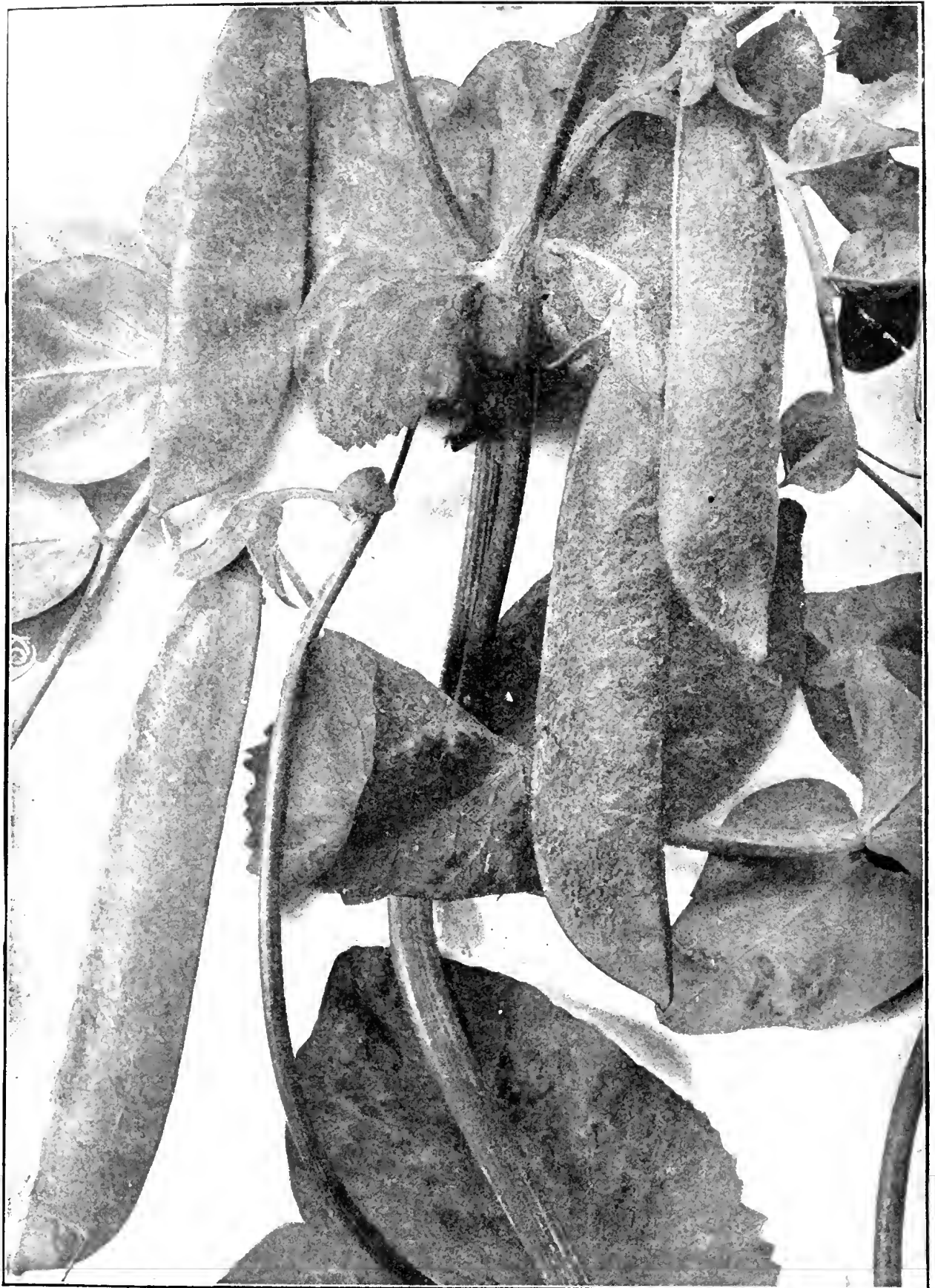


EARLIEST OF ALL, OR ALASKA

Laxtonian This handsome new wrinkled pea is the largest podded of the dwarf varieties on our list. The beautiful dark green pods are similar to Gradus in shape and splendid quality, are very nearly as large in size and mature a little earlier. The vines are vigorous and productive, averaging fifteen to eighteen inches high; foliage dark green; pods about four inches in length. See light green, large, wrinkled, flattened, irregular in shape (See colored plate, page 5, and further description in Supplement, page 4.) Pkt. 10c; Pt. 60c; Qt. \$1.00

Premium Gem (Improved Little Gem) A very desirable early green wrinkled dwarf variety similar to but better than McLearn's Little Gem. The vine is very productive and grows to a height of from fifteen to eighteen inches. The pods are of medium size, about two and three-fourths inches long and crowded with six to eight very large peas of fine quality. The seed is green, large, wrinkled, often flattened. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

If peas are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.



PEAS, ALDERMAN

PEAS—SECOND EARLY VARIETIES

McLean's Advancer A green, wrinkled variety of medium height, about two and one-half to three feet, with long, broad pods, about two and three-fourths to three inches long, which are abundantly produced and well filled to the ends. This pea is used very extensively by market gardeners because of its productiveness, the fine appearance of its pods and is popular with consumers on account of its quality. It is also largely used by canners. By careful selection we have developed a strain showing marked improvements in vigor of plant, size of pod and productiveness. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$8.50

Yorkshire Hero Vines stout, of medium height, about two and one-half feet, bearing near the top a number of broad pods of medium size, about two and one-half to three inches long, filled with large peas that remain a long time in condition for use and which never become as hard as most sorts. The peas are of fine quality and will be preferred to any other by those who like a rich, marrow-like pea. Seed large, wrinkled and flattened. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

Bliss' Everbearing Vines stout, of medium height, about two and one-half feet, bearing at the top six to ten broad pods, of medium size, about two and one-half to three inches long. If these are picked as they mature and the season and soil are favorable, the plant will throw out branches bearing pods which will mature in succession, thus prolonging the season. The peas are large and wrinkled, cook very quickly, are tender, of superior flavor and preferred by many to any other sort. (*Crop failed*)

Duke of Albany A very large, wrinkled Pea similar to Telephone in growth and season but darker in color of foliage and pods. Vines tall, about four and one-half to five feet high, vigorous and strong growing; pods of largest size, often four and one-half to five inches long, straight and thick, borne in great profusion and when in condition for picking, of a deep green color. There is an increasing demand for peas of this color and the productiveness of this variety makes it a very profitable sort for market gardeners while its splendid quality should give it a place in the home garden. In many localities this variety is sold as an improved strain of Telephone. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00

LATER VARIETIES

Improved Stratagem Most stocks of the large podded, semi-dwarf, English varieties of peas have been so wanting in uniformity and evenness of type as to disgust American planters, but we have developed a stock which comes true and is one of the best of the large podded sorts. Vines about two to two and one-half feet high, with medium dark green foliage. Pods very large, often four and one-quarter to four and one-half inches long, pointed, dark green, and uniformly filled with very large, dark green peas of the finest quality. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00

Dwarf Champion This is a comparatively new green wrinkled pea and wherever known is proving a popular main crop sort for the market or home garden. The vines are of medium height, only about three feet high, vigorous, hardy, and unusually productive. Pods large, fully four inches long, broad, quite straight, deep green in color, handsome and very well filled with large peas which are tender and unsurpassed in quality. The stock we offer is vastly superior in productiveness, size of pod and quality to much that is sold under this name and we believe it will meet the requirements of the most critical trade. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

Horsford's Market Garden The vines of this variety are of medium height, about three feet, hardy and very productive, giving the greatest number of pods of any on our list. The foliage is dark green and the leaves are small. The pods are of medium size, about two and three-fourths inches long, each containing five to seven medium sized, sweet, dark green peas which retain well their color and sweetness after canning. Seed wrinkled and of medium size. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$8.50

Melting Sugar (*Edible pods*) There is a class of peas not generally known in this country but much used abroad in which the sweet, brittle and succulent pods have none of the tough, inner lining found in the ordinary varieties of garden peas. They are used in the same way as snap or string beans. The best of these edible podded sorts is the Melting Sugar of which we offer a very fine strain. The pods are very large, four to four and one-half inches long, broad, often curved or twisted, and when young, stringless, very tender and finely flavored. The variety is rather late maturing, very prolific, strong growing, about four to five feet high with large light colored foliage. Seed medium to large, smooth, round, light yellowish white in color. We have given this variety especial attention and we believe the seed we offer is equal to the best obtainable. Pkt. 10c; Pt. 35c; Qt. 60c; 4 Qts. \$2.00; Bu. \$12.00

The Admiral Vines tall and vigorous, about four feet high. Pods usually borne in pairs, curved, bright green, about two and three-fourths inches long, crowded with six to nine peas of the very best quality and color. We know of no pea which remains palatable longer after it becomes large enough to use. Seed much wrinkled, of medium size, cream color. Owing to its great vigor, productiveness, fine color, quality and suitable size of the green peas, this variety is admirably adapted for canners' use. (*Sold out*)

Telephone This has become the leading pea with market gardeners whose trade appreciates fine appearance and high quality. Vines tall and vigorous, growing about four feet high, with large, coarse, light colored leaves and producing an abundance of pointed pods of largest size, often four and one-half to five inches long, attractive bright green, filled with very large peas which are tender, sweet and of excellent flavor. It comes into use soon after the Premium Gem and is one of the best sorts for either home or market. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00

Telegraph, or Long Island Mammoth Stronger growing and hardier vine with darker foliage and pods than the Telephone; peas very large and of dark green color; seed almost smooth. Vines tall, about four to four and one-half feet. Pods very large, about four and one-half inches long. A splendid sort for the market garden; will give good returns even under conditions that would cause most varieties to fail. (*Very short crop; sold out*)

Alderman This comparatively new pea is in many respects the very best early main crop variety of the valuable Telephone type. The vines are tall growing, about four and one-half to five feet high, dark green, vigorous and exceedingly productive. Pods of largest size, often five to five and one-half inches long, dark green, similar to but a little larger and a shade darker in color than Duke of Albany and about the same in season. The peas are of largest size and unsurpassed in quality. Market gardeners are demanding the large podded, dark colored sorts which retain their fine appearance even after shipping a long distance. The Alderman answers these requirements and furthermore is the most productive variety of this class. We recommend it unreservedly. Pkt. 10c; Pt. 30c; Qt. 45c; 4 Qts. \$1.50; Bu. \$9.00

Champion of England A very productive variety, universally admitted to be one of the richest and best flavored of the late peas. The vines are tall, about four to five feet high. Pods large, about three inches long. The seed is light green and wrinkled. Very inferior and mixed stocks of this sort are frequently offered but when the seed is as well grown and selected as that we offer we consider the variety equal in quality to any in cultivation and one of the best of its season, either for the home garden or market gardener. Pkt. 10c; Pt. 25c; Qt. 40c; 4 Qts. \$1.50; Bu. \$8.00

Large White Marrowfat The vines of this tall variety are about five feet high and of strong growth. The pods are large, about three inches long, cylindrical, surface somewhat roughened, light colored and well filled; seed large, smooth, round and light creamy yellow. Excellent for summer use but is not as sweet and tender as most of the newer sorts, although undoubtedly one of the most productive of the garden varieties. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$5.50

Large Blackeye Marrowfat An excellent tall variety, about five feet high. It is a very prolific bearer of large pods, about three inches long. Seed large, smooth, round, light creamy yellow with black eye. One of the very best of the Marrowfat sorts. Pkt. 10c; Pt. 20c; Qt. 30c; 4 Qts. \$1.00; Bu. \$5.50

FIELD PEAS

Field Peas deserve more general attention for fodder than they now receive. In the north for dairy cows and for hogs, they are fully equal to corn, and about six weeks earlier. For cows, the crop should be cut and fed green. For hogs alone it can be used as pasturage. Field Peas can be sown either alone or with oats as early as the condition of the soil will permit. If the stubble from green winter rye or other crops cut in June be turned under and sown to mixed peas and oats, it will furnish a large amount of forage in August when grass pasture is usually short.

As fertilizer, field peas should be plowed under when in blossom. They will grow on land that will not produce clover.

No. 1 White and Common White, write for quotations.

If peas are ordered by mail or express prepaid add 10 cents per pint, 15 cents per quart for charges.

PEPPER

Peppers are most largely used for seasoning meat, and vegetable dishes; also for making chow chow and chili sauce. The culture is the same as for egg plant and the plants need quite as much heat to perfect them. Sow seed early in hotbed, or about middle of spring in open seed bed, the soil being light and warm. When three inches high transplant in rows about two and one-half feet apart and two feet apart in the row. Cultivate and keep free from weeds. Guano, hen dung, or any other bird manure hoed into the surface soil when the plants are about six inches high, will undoubtedly increase the product.

Red Cherry A second early sort. Plant tall, bearing a profusion of round, bright red fruits which are very pungent when ripe. A very ornamental plant, when in fruit. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Red Chili A late variety. Pods bright, rich red about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Long Red Cayenne A well known medium early variety having a slender, twisted and pointed pod about four inches long. Color deep green when fruit is young, bright red when ripe. Extremely strong and pungent flesh. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Large Bell, or Bull Nose Our stock of this well known variety, sometimes called Sweet Mountain, is very superior. Plant vigorous, about two feet high, compact and very productive, ripening its crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Ruby King An improved American variety, very large and attractive. The plant is about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$2.75

Giant Crimson The earliest maturing of the extremely large, red sweet peppers and surpassed by none in evenness of size and shape. The plant is vigorous and upright, growing two and one-half to three feet high, larger than that of Chinese Giant and more productive. The fruits are of the largest size, ripen earlier than any of the other very large sorts and average heavier, as the flesh is exceptionally thick. Color deep green when fruit is young, deep crimson when matured; flavor very mild. Pkt. 5c; Oz. 45c; 2 Oz. 85c; ¼ Lb. \$1.50; Lb. \$4.50

Large Sweet Spanish A late maturing and attractive, red, sweet pepper. Plant about two and one-half feet high, upright, very compact, vigorous and productive. Fruits very large and long, frequently seven inches in length and about two inches in diameter, with very thick, mild flesh of excellent quality. Color deep green when fruit is young, rich red when ripe. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50



GIANT CRIMSON PEPPER

PUMPKIN

Pumpkins are not so particular in regard to soil as melons or cucumbers, but are cultivated the same, though on a larger scale. They are raised between hills of corn or in fields by themselves, but more properly belong to the farm than the garden as they readily mix with and injure the quality of the finer squash.

After danger of frost is over plant the seed in hills eight to ten feet apart each way, dropping about a dozen seeds in a hill. The soil should be made as rich as possible. If planted with corn two or three seeds a rod apart each way will be sufficient. When danger from bugs is past, thin to three plants to a hill.

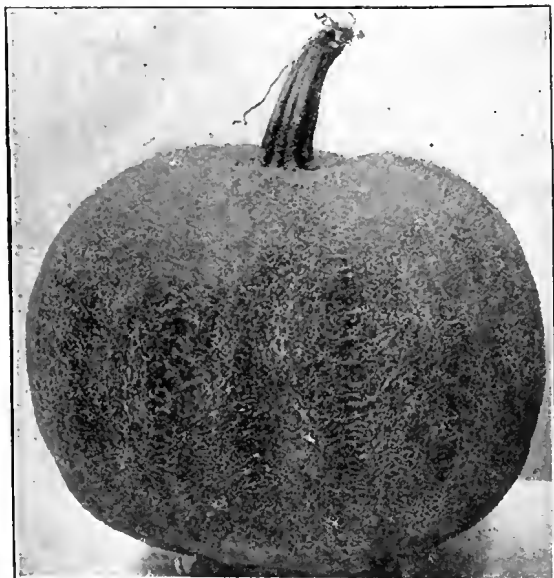
Pie Fruit of medium size, nearly round; skin light yellow, smooth and covered with a fine gray netting. Flesh light yellow, very thick, sweet and finely flavored. Makes very delicious pies. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Sugar, or New England Pie This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich deep yellow, fine grained and very sweet. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Large Yellow The pumpkin most extensively used for feeding stock; also used for making pies. Grows to a large size and varies in shape from nearly round or slightly flattened to quite long. Flesh deep, rich yellow, fine grained and highly flavored. Often planted with corn. Known also as Field Pumpkin. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 50c. By freight or express, at purchaser's expense, \$30.00 per 100 lbs.

Green Striped Cushaw Fruits very large, with crooked neck; color creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. Very productive and popular in some sections. An improved strain of the old Cushaw. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Sweet Cheese, or Kentucky Field Very popular in the south, but not as well adapted to northern latitudes. Fruit flattened, diameter usually about twice the length; skin mottled light green and yellow, changing to creamy yellow when mature. The flesh is yellow, tender and of excellent quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 50c. By freight or express at purchaser's expense, \$30.00 per 100 lbs.



PIE PUMPKIN

RADISH

For forcing sow in hotbeds or under glass in rich, sandy soil made perfectly level. Scatter evenly over the surface from fifty to one hundred seeds to the square foot and cover with one-half inch of soil sifted on. Careful watering to keep soil moist, even, moderate temperature and good ventilation are required for rapid and best root development. If the bed is a good one the whole crop can be marketed in twenty-one to forty days after planting. For open ground culture sow on rich, sandy soil as soon in the spring as it is fit to work, in drills twelve to eighteen inches apart and thin out the plants to prevent crowding. A good dressing of nitrate of soda will greatly stimulate growth and insure tender, brittle roots. Successional sowings from one week to ten days apart will keep up a supply. After the hot weather of summer begins, it is better to sow the summer and winter varieties, as they do not become tough and stringy nor pithy so quickly as the early sorts. Radishes are subject to root maggots which make them useless for culinary purposes. We know of no certain remedy for this pest. We have found that the best preventive measures are to avoid the use of rank manure and not to sow on ground where radishes, turnips or cabbages were grown the year previous.

We have been very careful to secure the very best seed possible and there is none sold under other names which is better than that of the varieties we offer.

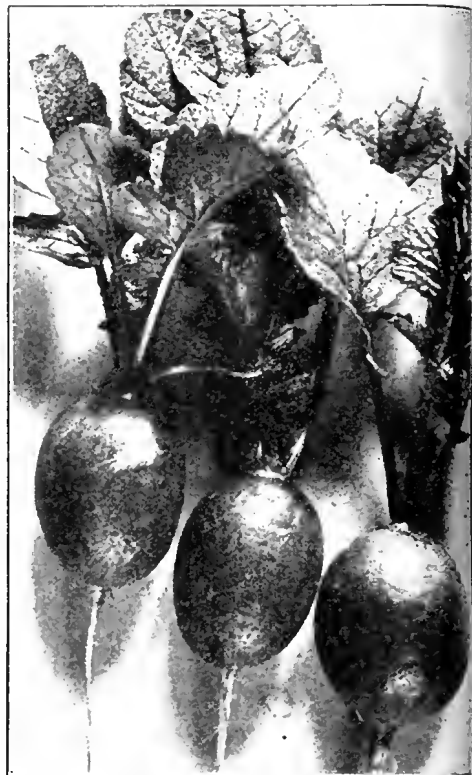
Non Plus Ultra, or Early Deep Scarlet Turnip, Forcing This is an excellent extra early forcing radish. The roots are small, nearly round and of bright scarlet color. Tops very small; flesh white, crisp and well flavored. One of the handsomest of the forcing varieties. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Prussian Globe The smallest forcing radish offered. Tops distinctly small; roots round or slightly flattened, very deep red in color and of the best quality. Remains in condition for use the longest of any of the first early forcing sorts and is a favorite where a very small, deep red radish is desired. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early Scarlet Globe The roots of this variety are slightly olive shaped, a rich, bright scarlet in color; flesh white and tender, fit to pull as early as Non Plus Ultra but larger when matured. We specially recommend this to gardeners as a large, first early forcing radish. It is also very desirable for first early planting outdoors. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

Early Scarlet Turnip, White Tipped, Forcing A beautiful variety, bright scarlet with white tip, very nearly as early as Non Plus Ultra, has a small top and may be planted as closely. It is most attractive in appearance and cannot fail to give satisfaction as a forcing radish. Very popular as a market sort. Sold sometimes as Rosy Gem, Rapid Forcing, etc. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

Early Deep Scarlet, Olive Shaped, Short Leaf An excellent deep red olive shaped forcing sort, typical in its very small tops and early maturing roots, which should be pulled just as soon as in condition. The roots when fully grown are about one and one-half inches long by about one inch in diameter. Suitable also for early outdoor planting. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.



EARLY SCARLET GLOBE

Early White Turnip This is an early white radish, a little more flattened than Early Scarlet Turnip, and as offered by us, of smaller size and usually a little earlier maturing. While generally used for early outdoor planting, its very small tops and quick growth make it suitable for forcing. Roots about one inch in diameter when mature. Flesh pure white, crisp and tender. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early Scarlet Turnip A round, red, turnip shaped radish with small tops and of very quick growth, deserving general cultivation on account of its rich, scarlet-red color and white, crisp and tender flesh. Roots often grow one inch long by one and one-eighth inches in diameter before becoming pithy. Very desirable for early outdoor planting, as well as forcing. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 70c.

Early Scarlet Turnip, White Tipped One of the handsomest of the turnip radishes and a great favorite in many large markets for early planting outdoors. It is but little later than Early Scarlet Turnip. White Tipped, Forcing and will give entire satisfaction where extreme earliness and small tops are not the chief considerations. Roots nearly round, slightly flattened on the under side. Color very deep scarlet with a distinctly white tip. Flesh white and of the best quality. The stock we offer is exceptionally attractive in its splendid coloring. The scarlet is unusually deep and affords a very distinct and pleasing contrast with the large, clear white tip. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

French Breakfast A quick growing, small, olive shaped radish about one and one-half inches long by five-eighths to three-fourths of an inch in diameter when fully grown. Color beautiful deep scarlet except a little clear white about the tip. Its small top and earliness make it very desirable for growing under glass as well as for planting outdoors. A splendid variety for the table on account of its excellent quality and attractive color. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Crimson Giant Turnip A round radish of exceptionally large size for so early a variety. The root is nearly globe-shaped, of beautiful crimson-carmine color and most excellent quality, often growing one and three-fourths inches in diameter before becoming pithy. A very desirable variety for general outdoor planting, and also suitable for forcing where a very large, round radish is wanted. It remains in condition a remarkably long time for so early a radish. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.



FRENCH BREAKFAST

RADISH—Continued

Half Long Deep Scarlet The roots of this desirable early variety are of a deep, rich red color and are olive shaped or half long with a somewhat tapering point. Tops comparatively small. Flesh very white, crisp and tender, and does not become pithy as soon as most other early sorts. Roots when mature about two and one-half to three inches long. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Long Brightest Scarlet, One of the brightest and handsomest scarlet radishes known and a decided improvement in earliness and color over other varieties of this class. **White Tipped** Roots mature in about twenty-five days from time of planting and continue in good condition until full grown when they are as large in diameter but a little shorter than Early Long Scarlet; has a small top and can be used for forcing. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early Long Scarlet, Short Top, Improved This is a standard, most excellent sort either for the home garden or the market. Tops short and comparatively small. Roots smooth, slender, uniform in shape and a very attractive bright red in color. They grow about one-third out of the ground and continue crisp and tender until fully matured, when they are about six inches long. This is the variety which is grown so extensively in Petite Cote, Ontario, where the finest radishes in America are grown. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Wood's Early Frame This is not only a very good variety for forcing, being shorter and thicker than the old Long Scarlet Short Top, but is one of the very best sorts for first crop out of doors. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Cincinnati Market Very similar to Early Long Scarlet Short Top, Improved, but averages longer, deeper red in color and remains a little longer in condition for use. Roots slender, and before becoming

pithy often six to seven inches long by about five-eighths of an inch in diameter at shoulder. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Improved Chartier, or Shepherd This American variety is one of the very best long radishes for general planting outdoors. Tops of medium size. Roots are in good condition for the table when half an inch thick and continue hard and crisp until they reach a diameter of about one and one-fourth inches thus affording good roots for a long time. The roots are rather long, averaging seven to eight inches when mature, scarlet rose in color, shading into white at the tip. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early Golden Yellow Oval Matures quickly, has a small top and neck and resists the summer heat better than the early scarlet or white kinds. Roots oval, about one and one-half inches long by about one inch in diameter when mature, very smooth and handsome; bright, light yellow in color and of excellent quality. Our stock is grown from selected roots and is very fine. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Icicle A very attractive, pure white radish, the earliest of the long, white, summer sorts and of most excellent quality. The roots are somewhat shorter, with smaller tops than Long White Vienna and mature a little earlier. Roots when mature five to six inches long by about one-half to five-eighths of an inch in diameter. One of the most desirable varieties for outdoor summer planting. It is also adapted for forcing. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

Long White Vienna, or Lady Finger An early maturing and attractive, long, white, summer radish of most excellent quality. Tops are of medium size. Roots pure white, slender, smooth and averaging when mature six to seven inches long by about five-eighths to seven-eighths of an inch in diameter at thickest part. Flesh very crisp and tender. It matures shortly after Wood's Early Frame. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

White Strasburg Even when comparatively small this variety is in good condition for use and continues crisp until matured when the roots are four to six inches long by one and one-half to two inches in diameter. This is considered one of the best large, white summer sorts. The roots remain in condition for use much longer than the early varieties. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.

Early White Giant Stuttgart Root large, often four inches in diameter, top shaped; skin white; flesh white and crisp and not becoming pithy until very late, so that those not used as a summer radish can be stored for winter use. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Golden Globe This variety is of quick growth, affording crisp and tender radishes even in the hottest climate and is extensively grown in the south. Root uniformly globe shaped, with skin golden yellow in color; about two inches long by two and one-fourth inches in diameter when mature. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Large White Summer Turnip One of the most desirable of the summer varieties. Root round, smooth, white and attractive, two to three inches in diameter when mature; flesh crisp, firm and rather pungent in flavor. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.



EARLY LONG SCARLET SHORT TOP IMPROVED



ICICLE



WHITE STRASBURG

RADISH—Continued

WINTER VARIETIES

Seed for winter radishes should be sown about the first of August in rich, warm, sandy loam, in rows about twenty inches apart, covering half an inch deep. When well up thin to three inches apart in the row and give frequent cultivation. For winter use, the roots should be pulled and packed in damp sand and stored in a cool cellar.

Scarlet China Roots cylindrical, or largest near the bottom, stump rooved, blunt at both ends. Skin smooth, bright deep rose. Flesh white, firm, crisp and pungent. Tops moderately large with leaves distinctly cut and divided; leaf-stems tinged with rose. Roots usually four to five inches long by about one and one-half to two inches in diameter when fully mature, sometimes growing considerably thicker. Very extensively used for fall and winter. Known also as Chinese Rose. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.**



RADISH, SCARLET CHINA

Celestial Sold also as Chinese White Winter. Roots long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties; when fully mature six to nine inches long by about two and one-half to three and one-half inches in diameter. Flesh compact and crisp. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

California Mammoth Roots white and when fully mature nine to twelve inches long by three to four inches in diameter just below the shoulder, tapering regularly to the tip. Flesh firm, crisp, decidedly pungent but well flavored, keeping well through the winter. The variety matures later than Celestial and the roots are not as mild in flavor but they attain a larger size under favorable conditions and sometimes keep a little better. *(Crop failed)*

Round Black Spanish Roots round, sometimes slightly top shaped, three or four inches in diameter; skin black, flesh white, very compact and pungent, but well flavored. Keeps well through the winter. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.**

Half Long Black Winter Grayish black skin and crisp, pungent but well flavored white flesh. Roots four to five inches long and one and one-half to two inches in diameter, sometimes approaching stump-rooted form at maturity. This variety is intermediate in shape between the Round and the Long Black Spanish, and seems to combine the good qualities of both. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.**

Long Black Spanish One of the latest and hardest long radishes, especially adapted for winter use. Roots rather long, thick, almost black, with white flesh of firm texture, decidedly pungent but well flavored. The roots when mature are usually seven to nine inches long by two to three inches in diameter at thickest part. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**



RADISH, CELESTIAL

RHUBARB, or Pie Plant

Rhubarb, also known as Pie Plant, or Wine Plant, is the earliest spring vegetable and is grown for its leaf stalks which are extensively used for pies and sauce.

Rhubarb succeeds best in deep, somewhat retentive soil and the richer this is and the deeper it is stirred, the better. Sow in drills an inch deep and thin out the plants to six inches apart. In the fall transplant into very highly manured and deeply stirred soil, setting them four to six feet apart each way and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year. When a blossom stalk appears, it should be cut back well into the ground and the plant never allowed to exhaust itself by running to seed. Our seed is saved from selected plants of the Linnæus, Victoria, Giant and other improved sorts, but like the seeds of fruit trees, rhubarb seed cannot be relied upon to reproduce the same varieties.

SEED—Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

ROOTS—by mail, prepaid, 15c each; by express, not prepaid, \$1.25 per dozen.

ROQUETTE A hardy annual, the leaves of which are long, smooth and glossy and when young are used like mustard for salads. When in condition for use the plants are from eight to ten inches high. Sow the seed in shallow drills about sixteen inches apart, in early spring and for succession every few weeks thereafter. Water freely. The young leaves will be ready for cutting in about six weeks from time of planting. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

SALSIFY, or Vegetable Oyster

One of the most desirable winter vegetables. The roots when cooked are very palatable and nutritious and are served in a variety of ways. The flavor is similar to oysters. Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy and may remain out all winter, but should be dug early in spring, as they deteriorate rapidly after growth commences. Frost does not injure the roots, but before the ground freezes a quantity for winter use may be stored in a pit or in a very cool cellar.

Mammoth Sandwich Island This variety is large and strong growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. Tops grassy. It is invaluable for market gardeners' use. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

SORREL The improved varieties of Sorrel when well grown and cooked like spinach make a palatable dish. Sow in drills early in spring and thin the seedlings to six or eight inches apart in the row. One may commence cutting in about two months and the plants will continue in full bearing from three to four years.

Large Leaved French The best garden variety, having large, pale green leaves of fine quality. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

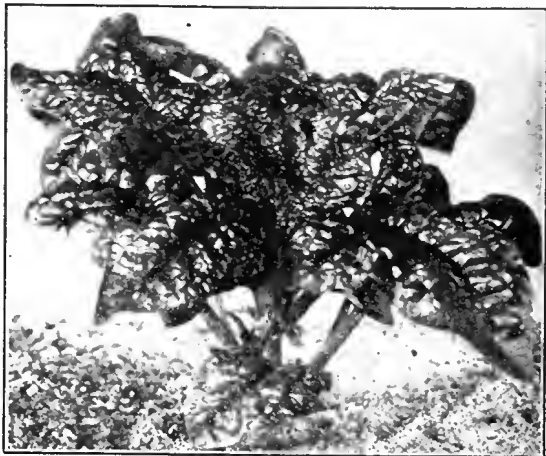
SPINACH

No plant makes more palatable and nutritious greens than spinach when properly prepared. Seed should be planted in very rich ground, the richer the better. Sow in drills sixteen to twenty inches apart and thin to about six inches apart when the leaves are an inch wide. All should be cut before hot weather, while young and tender. For early spring use sow early in autumn and protect the plants with a light covering of leaves or straw, or plant as soon as the land can be worked in the spring. Under favorable conditions the leaves may be large enough for eating in eight weeks. South of Cincinnati spinach can be grown through the winter with very little or no covering.

Savoy Leaved Also known as Bloomsdale. A very early variety and one of the best to plant in autumn for early spring use. The plant is of upright growth, with thick, glossy, dark green leaves of medium size, pointed but quite broad, and crumpled or blistered like those of Savoy cabbage. Seed round. It is hardy and grows rapidly to a suitable size for use, running to seed quickly in warm weather. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 40c.

Broad Flanders An early and vigorous growing round seeded variety. Leaves bright green, broad and thick, with long petiole; usually broad arrow shaped but sometimes rounded; surface fairly smooth or sometimes slightly crumpled. A most desirable bunching sort for market gardeners. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 35c.

Thick Leaved, Round Seeded A desirable variety for early spring sowing and popular with market gardeners. Plant large and vigorous. Leaves large, thick, fleshy and bright green in color. Seed round. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 35c.

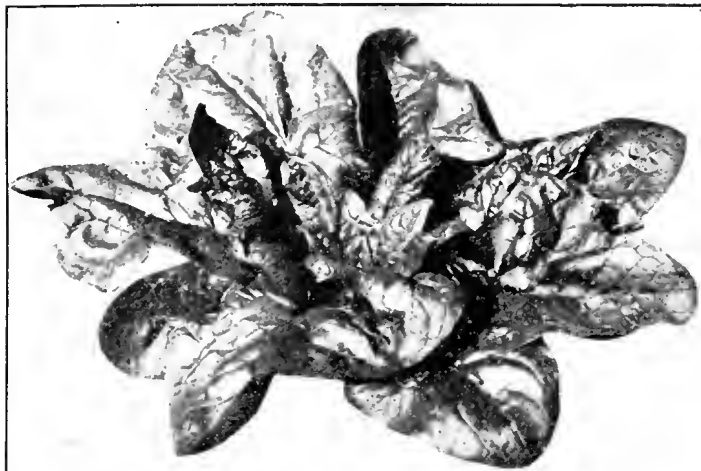


SAVOY LEAVED

Long Standing An improved round seeded strain of excellent quality; season comparatively late but after reaching maturity it remains in condition for use much longer than most sorts. Plant very large, becoming rather procumbent when mature; leaves usually very broad arrow shaped or rounded, comparatively smooth and dark, rich green. Very popular with market gardeners. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 35c.

Long Standing Prickly This variety is an improved strain of the long standing type of spinach that matures a little later than the round seeded sorts. The plant is very large at maturity, very vigorous and hardy, and yields a large quantity of medium sized leaves, which are usually rounded at end, quite thick and uniformly dark green. Seed prickly. Usually planted in the fall, but also well adapted for spring use. Sometimes called Prickly Winter. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 45c.

New Zealand (*Tetragonia expansa*) Unlike true spinach in type and in that it thrives during hot weather and in any soil rich or poor. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes very large and spreading; leaves small, broad but pointed. Plant three or four seeds in hills two feet apart each way. Germination of seed can be hastened by soaking in warm water twenty-four hours. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 80c.



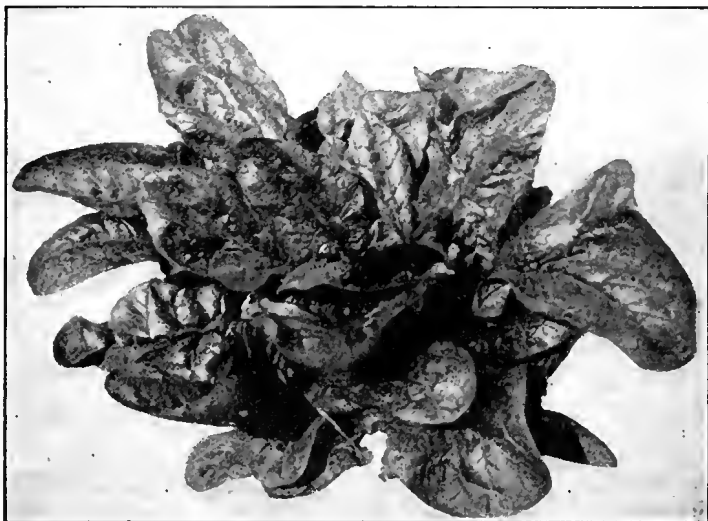
EARLY GIANT THICK LEAVED

Improved Thick Leaved A variety which grows rapidly, forming a cluster of very large, slightly crumpled leaves of deep green color and good quality. Leaves usually broad arrow shaped but sometimes rounded. Season medium early. Seed round. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 35c.

Early Giant Thick Leaved A strong growing and early maturing sort, with very large, thick leaves of fine, deep green color. Leaves usually rounded or broad arrow shaped; surface fairly smooth or slightly crumpled. Seed round. One of the most desirable medium early varieties. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 40c.

Victoria An excellent sort, forming a very large, leaf slightly crumpled in the center. Plant large, compact, procumbent; season intermediate. Leaves usually blunt or rounded at end but sometimes broad arrow shaped. Seed round. The variety becomes fit for use nearly as early as any, remaining so much longer than most kinds and cannot fail to please, whether grown for the market or home garden. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 40c.

Long Season A very dark green, crumpled variety, in general appearance similar to Savoy Leaved but considerably larger and broader in leaf, less crumpled and very much longer standing. Seed round. One of the very best for early spring and successional planting. Pkt. 5c; Oz. 10c; ¼ Lb. 15c; Lb. 45c.

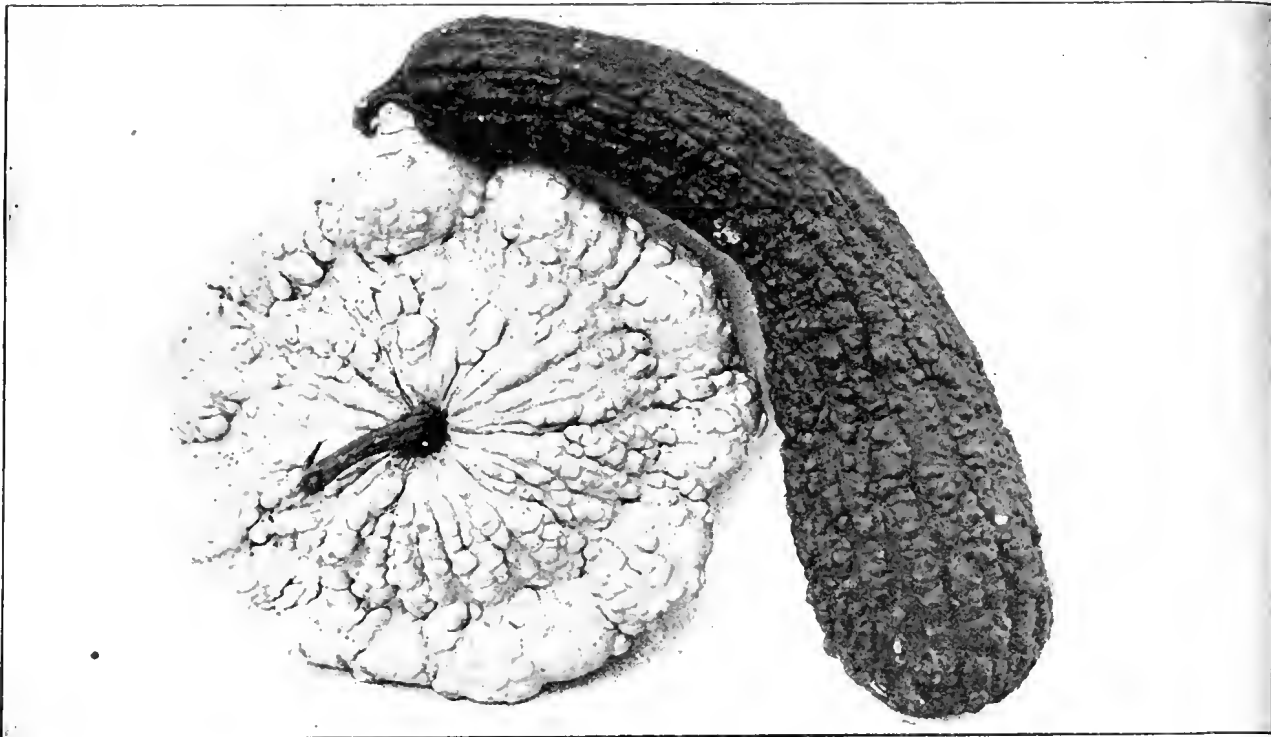


LONG STANDING PRICKLY

SQUASH

One of the most nutritious and valuable of garden vegetables. The summer varieties come to the table early in the season, while the fall and winter sorts can be had from August until the following spring. The winter varieties are very well adapted for stock feeding and we heartily recommend them for that purpose.

Squash plants are very tender and sensitive to cold and so planting must be delayed until settled warm weather. General methods of culture are the same as for cucumbers and melons, but squash is less particular as to soil. Summer varieties should be planted four to six feet apart each way and winter sorts eight to ten. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash, as the slightest injury will increase the liability to decay. Winter squashes should be stored in a moderately warm, dry place and the temperature kept as even as possible. For those who desire very early squashes, seed can be planted in boxes, and transplanted. Insect pests that attack the vines when small, such as the striped beetle, may be kept off by frequent dustings with air slaked lime, soot or sifted ashes diluted with fine road earth. For the large squash bug, the best remedy is a kerosene emulsion.



MAMMOTH WHITE BUSH SCALLOP AND MAMMOTH SUMMER CROCKNECK

SUMMER VARIETIES

Long Island White Bush The earliest of the summer squashes. The vines are vigorous and very productive. The fruits are rather small and often nearly spherical, thick, with only a slight indication of a scallop. The skin is white, flesh tender and of good quality. Our stock of this variety is very uniform. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Mammoth White Bush Scallop An early maturing, somewhat flattened, scalloped bush squash, of largest size and the handsomest of the summer varieties. The fruit is uniformly warted and a beautiful, clear waxy white, instead of the yellowish white so often seen in the old Early White Bush Scallop. The stock we offer of this variety is exceptionally true to type. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 90c.

Early White Bush Scallop This is the well known, very early, somewhat flattened, scalloped bush squash of medium size. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan or Cymling. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Early Yellow Bush Scallop A very early, somewhat flattened, scalloped bush squash of largest size. Skin deep orange; flesh pale yellow and of very good flavor. We have developed a strain of the old Yellow Bush Scallop which is fully as productive but uniformly larger and flatter than the old stock and has a very small seed cavity. Its superiority is so great that we would be justified by prevailing custom in renaming it. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

White Summer Crookneck Introduced by us in 1835. Fruit similar in size and shape to the Summer Crookneck, but of an ivory white color and unsurpassed in quality. When fully grown twelve to sixteen inches long, with crooked neck and surface moderately warted. We recommend this sort as one of the best of the summer varieties. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Summer Crookneck The old standard sort, early and very productive. Matures the bulk of its crop a little earlier than the Mammoth Summer Crookneck. Fruits when fully grown are about one foot long, with uniformly crooked neck and surface densely warted; color bright yellow. Shell very hard when ripe. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 85c.

Mammoth Summer Crookneck Largest and one of the earliest of the crookneck summer squashes. Vines of bush habit, large and more vigorous than Summer Crookneck. Fruits when mature are very large, often one and one-half to two feet long, with exceedingly warted surface. The color is deep yellow. Its large size and attractive color make it a favorite with market gardeners. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 90c.

Italian Vegetable Marrow (*Cocozella di Napoli*) Vines of bush habit, producing large, much elongated fruits, dark green at first but as they mature becoming marbled with yellow and lighter green in stripes. Fruits in best condition for the table when six to eight inches long, but can be used when much larger. The young and tender fruits when sliced and fried in oil constitute a vegetable delicacy very popular, especially in Naples. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

SQUASH—AUTUMN AND WINTER



DELICIOUS

Hubbard One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted, with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. It is esteemed by many to be as good baked as the sweet potato. Our stock is carefully selected in regard to quality of the flesh and color of the shell and is much superior to that sold as Chicago Warted or Warty Hubbard. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

TOBACCO

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

STERLING. Very early. Fine for wrappers, cutters and fillers. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

SWEET ORONOCO. For first class plug fillers. Makes when sun cured the best natural chewing leaf. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

WHITE BURLEY. A favorite for plug fillers and wrappers. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00

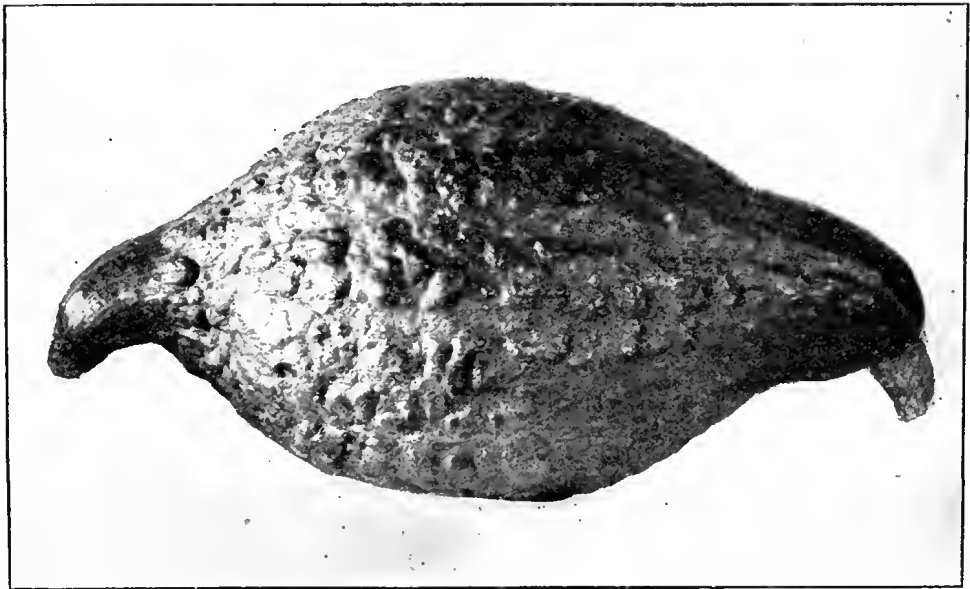
BRADLEY BROAD LEAF. A popular variety for exports, manufacturing and cigars. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

PERSIAN ROSE. A high grade manufacturing variety. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00

Delicious We are convinced that this squash is particularly excellent in quality and in that respect it is now by many considered even better than the Hubbard which has been so long looked upon as the standard. Delicious is a fall and winter variety of medium size. The fruits are moderately hard, usually dark green but sometimes lighter in color and mottled, and are without any hard shell. The flesh is thick, very fine grained and bright yellow in color. Even when somewhat immature this squash is in condition for use and of finest flavor. Although when first introduced a little uneven in shape and exterior color, we have by continued and careful selection made a marked improvement in uniformity of type and we believe the seed we offer is equal to the best obtainable. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Boston Marrow This is a very productive variety of medium to large size, oval shape, and thin skin. The fruits when ripe are bright orange with a shading of light cream color. The flesh is of rich salmon yellow color, fine grained and of excellent flavor, but not as dry as the Hubbard. Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00

Golden Hubbard The vines of this variety are vigorous and very productive. The fruits are of medium size, weighing from six to eight pounds and in shape are like the Hubbard, although in condition for use decidedly earlier. They are wonderfully long keepers and can be held over in good condition for spring use. The shell is moderately warted, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on blossom end. The flesh is deep orange, dry, fine grained and richly flavored. We believe this to be a very superior table variety. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25



GOLDEN HUBBARD SQUASH

BIG HAVANA. A hybrid Havana or Cuban seed leaf. A heavy cropper, and the earliest cigar variety. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

SUMATRA. Produces cigar wrappers of the highest quality; popular with Florida growers. Pkt. 5c; Oz. 50c; 2 Oz. 85c; ¼ Lb. \$1.50; Lb. \$5.00

CONNECTICUT SEED LEAF. A hardy cigar variety, well adapted to growing in the middle and northern states. Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00

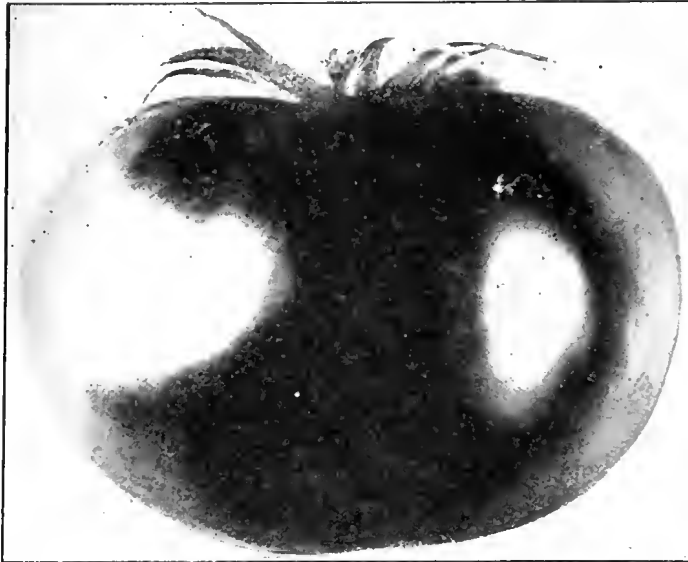
HAVANA. Leaf very thin, fine texture. Much used for cigar wrappers. Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00

TOMATO

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

To insure best results in respect to early ripening as well as the amount and perfection of fruit, it is advisable to train up and trim the vines, especially if the patch is rather small. When the plants have been properly started and are six to ten inches high they will begin to throw out branches. Select the largest and most vigorous of these and pinch off all others except this one and the main stem. Care must be exercised not to pinch off the fruiting branches which, as they appear, can be distinguished by the buds that are formed very early. In a short time these two remaining branches will become equally vigorous and as ordinary varieties will grow four to six feet high during the season, they should be securely tied at intervals of about ten inches to a long stake, preferably two inches square, which has been securely set in near the root of the vine. Fruit will set to almost any height desired if all side branches are kept trimmed off at intervals of a week. By such a method of training and trimming the fruits are kept clear from the ground and with free access of sunlight they ripen much earlier; the vitality, otherwise exhausted in superfluous branches and leaves, is utilized in forming fruits of largest size, greatest perfection of shape and best quality.

All our Tomato seeds are from seed stocks carefully selected and saved by ourselves. We challenge comparison of our stocks with any offered.



CHALK'S EARLY JEWEL

Earliana Our strain of this most valuable first early sort is earlier and decidedly superior to much that is sold as Sparks' Earliana, and the extreme earliness of its large, smooth fruits makes it a particularly profitable tomato for market gardeners. Vine small but vigorous and productive. Fruits deep scarlet, medium to large, nearly round and exceptionally smooth for so early a variety. The fruit is borne in clusters near the base of the plant and the bulk of the crop ripens very early. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.25

Chalk's Early Jewel One of the very best early tomatoes yet introduced. Vine vigorous and very productive. Fruits deep scarlet-red, nearly round or somewhat flattened, smooth, of large size and most excellent quality. They ripen very early and the pickings continue through a long season. Unsurpassed for the home garden. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; Lb. \$3.50

Early Michigan A second early, bright red variety of the best quality. Vine vigorous and productive. Fruits of medium size, very smooth and of very attractive crimson-scarlet color. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

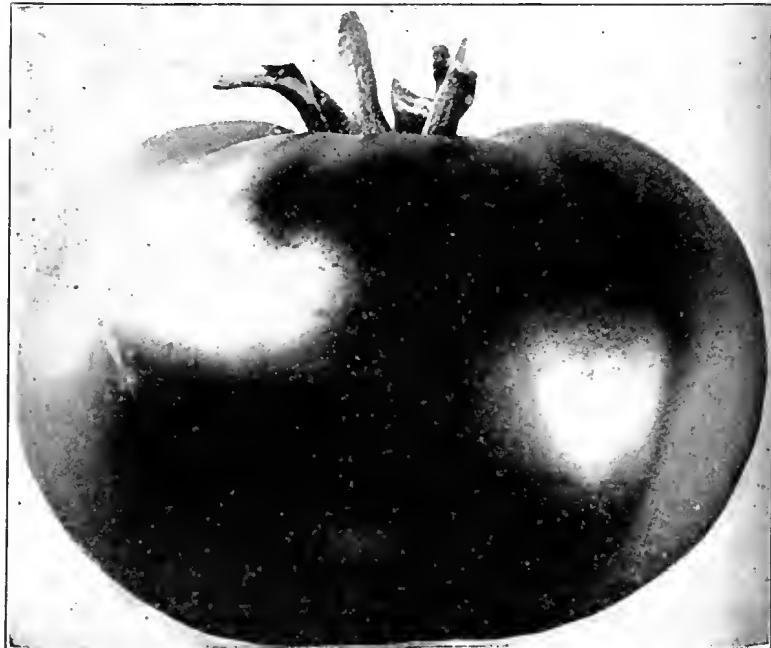
Perfection A medium to large tomato of deep crimson-scarlet color and of the best quality. Vine large, vigorous and productive. Fruits nearly round, uniformly smooth and even in size. Ripens about midseason. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Matchless A main crop variety, very popular in the east. Fruits large, very smooth and symmetrical, ripening well to stem. Flesh rich, bright red in color and of fine quality, although possibly not quite as firm as Improved Trophy or Stone. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$2.75

Improved Trophy A large, late tomato, unsurpassed in rich, deep crimson-scarlet color and of excellent quality. Vine large, vigorous and exceptionally productive. Fruit very solid, smooth and of uniform size. Unsurpassed for canning; also good for slicing. Our strain compares favorably with any in smoothness and regularity of the fruit, and is exceptionally good in interior color. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$2.75

Stone One of the largest and most solid, late, bright red varieties. Unsurpassed for slicing and canning. Vine large, vigorous and very productive. Fruits deep scarlet, nearly round or slightly flattened, exceptionally smooth and uniform in size. Our stock is distinctly superior to most of that offered under this name, being larger, smoother, more uniform and better colored. Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50

Coreless A very large, uniformly globe shaped, bright scarlet, main crop or late tomato. Fruits very solid, almost entirely free from green core and with little or no depression at stem end, making the variety especially desirable for slicing, canning and shipping. Vines very vigorous, blight resistant and productive. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00



STONE

TOMATO—Continued

June Pink An extra early, purplish pink tomato similar to the popular scarlet fruited Earliana in growth of vine, shape and size of fruits and time of maturing. This is a variety of exceptional value to market gardeners who want an early, purplish pink tomato, either for home market or to ship; also desirable for planting under glass. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; 1b. \$3.50

Early Detroit Introduced by us four years ago. The largest and best of the early purplish pink tomatoes. Vine vigorous and very productive. Fruits very smooth, uniform in size, nearly globe shaped, firm, and of excellent quality. Well adapted for shipping. (See colored plate, page 25, and further description in Supplement, page 8) Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; 1b. \$3.50

Acme Vine large, hardy and productive, ripening its first fruit very early, although not an extra early variety. Fruits purplish pink, invariably round, smooth and of good size, free from cracks and stands shipment well. Flesh solid and of excellent flavor. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$2.75

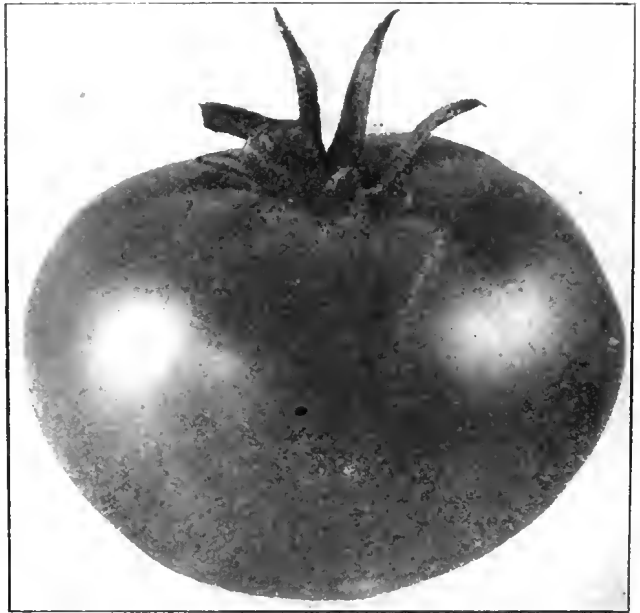
Livingston's Globe A large, purplish pink, globe-shaped or very nearly round tomato of excellent quality. Vine very vigorous and productive. Fruits rather uneven in size but very smooth and mature a little earlier than most main crop varieties. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; 1b. \$3.50

Magnus A variety with potato leaved foliage, producing purplish pink fruits of very large size; much smoother than most of the large fruited sorts and matures earlier. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$2.75

Beauty Vine large, vigorous and very productive. Fruits large, purplish pink, exceptionally smooth and uniform in size, very solid and of excellent quality. Ripens about midseason. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$2.75

Ponderosa A purplish pink tomato of the largest size. Vine vigorous and very productive. Fruits very solid, with exceptionally few seeds, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid. Ripens about midseason. Very desirable for slicing. Pkt. 5c; Oz. 50c; 2 Oz. 85c; ¼ Lb. \$1.50; 1b. \$5.00

Buckeye State One of the best late purplish pink varieties. Vine very strong growing and vigorous and growers in some sections of the south claim that it is blight proof. It should be given more room than most. Fruits very large, round, smooth and firm. An excellent shipper. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$2.75



ACME

Dwarf Stone Vine dwarf but vigorous and productive. While maturing with the later sorts the bright red fruits are of good color, exceedingly smooth and very solid. We consider this the best of the large fruited dwarf tomatoes. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.25

Dwarf Champion Sometimes sold as the "Tree Tomato." A second early, purplish pink variety, especially desirable where garden space is limited. Vine about two feet high, vigorous, upright and compact growing. Fruits medium sized, exceptionally smooth and of very good quality. Our stock is a very superior strain with more even, smoother fruit than the original. Pkt. 5c; Oz. 35c; 2 Oz. 60c; ¼ Lb. \$1.00; 1b. \$3.50

Golden Queen Fruits large and smooth; color a beautiful golden yellow, sometimes with a slight blush of red, as smooth and well shaped as the best of the red varieties and of superior flavor. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

Peach Desirable for preserving, eating from the hand or for table decoration. Fruits resemble a peach in shape and size and the color a light terra cotta red with a delicate bloom; flesh tender and of good flavor. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

WHITE APPLE. About one and one-half inches in diameter, round, perfectly smooth, yellowish white color. Flesh very mildly flavored and delicate. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

RED PEAR. Used for preserves and to make "tomato figs." Fruits bright red, distinctly pear shaped and of excellent flavor. Our stock is the true pear shaped and not the larger red plum tomato often sold under this name. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

YELLOW PEAR. Fruits similar to the Red Pear, but of rich, clear, yellow color and quite distinct from the variety sometimes sold under this name. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

YELLOW PLUM. Fruits plum shaped, of clear, deep yellow color; flesh yellow and finely flavored. Much esteemed for preserves. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

RED CHERRY. Fruits small, about five-eighths of an inch in diameter, perfectly round and smooth. Fine for pickles and preserves. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

YELLOW CHERRY. This variety differs from Red Cherry in color only. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00

YELLOW HUSK, OR GROUND CHERRY. Very sweet, mild flavor; used for preserves. Vines low and spreading. Fruits small, about one-half inch in diameter, enclosed in a loose husk. The seed we offer is that of the true Yellow Ground Cherry, not the purple fruited sort which is scarcely edible. Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; 1b. \$3.00



LIVINGSTON'S GLOBE

TURNIP

The value of Turnips and Ruta Bagas for feeding stock in fall and winter is not fully appreciated, as they are much liked by all kinds of stock and serve to keep them in good condition. They should not be fed, however, in large quantities to milch cows, or the flavor of the milk will be disagreeably affected. We earnestly recommend that farmers increase their sowings largely, for we are sure the crop will prove remunerative.

Both of these wholesome vegetables are very easily affected in their form and flavor by soil, climate, and mode of culture. There are a great many varieties, but our list comprises the best for the garden and farm.

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

In the middle and western states sow for fall and main crop from the middle of June to the first of August and in the manner given for spring sowing. In the field, turnips are often sown broadcast, though in most cases better results are obtained by drill culture; good results from broadcast sowing are often obtained on new and burned over land where the weeds are not likely to be troublesome.

For winter keeping, store the turnips in a cool cellar and cover with sand or turf to keep them fresh. Another method is to put them in a pit dug in dry soil where there will be no danger of water standing and to cover with straw overlaid with earth sufficiently deep to keep out frost. Thus protected, turnips will keep well till spring.

Early Extra White Milan Variety remarkably early. Tops very small, strap leaved, upright and compact, so that rows can be planted close together. Roots clear white, very smooth, flat and are of best quality when only about two inches in diameter. Flesh clear white, mild, sweet and tender. Very desirable for early use. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25



EXTRA EARLY WHITE MILAN

Extra Early Purple Top Milan Similar to Extra Early White Milan, except that the roots are a little flatter and an attractive purple-red on the upper portion. All in all, the Milan turnips leave nothing more to be desired in the way of an extra early garden turnip. Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25

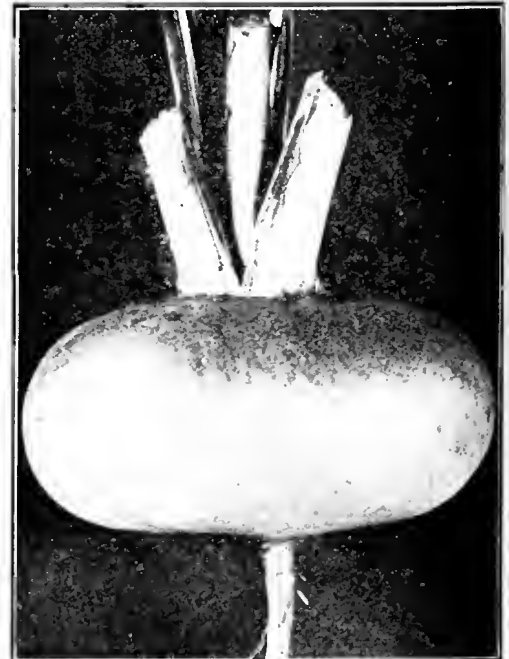
White Egg An early, oval or egg-shaped variety with smooth, clear white roots of medium size which grow half out of the ground. The tops are small with leaves distinctly cut. The flesh is clear white, firm, fine grained and sweet. The roots when in best condition for use are usually about two inches in diameter and about three and one-half inches long. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early White Flat Dutch, Strap Leaved A very early, white turnip, extensively used for the table, especially in the southern states. The leaves are entire and upright in growth. The roots are of medium size, flat, very white fleshed, fine grained and sweet. The roots when in best condition for table use are about two and one-half inches in diameter. This variety is also grown as a field crop. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Early Purple Top, Strap Leaved A very early, strap leaved variety, very extensively used for the table. The leaves are few, entire, upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. Also known as Early Red Top, Strap Leaved. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Purple Top White Globe This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety and is one of the best for market use. Sometimes known as Red Top White Globe. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Cow Horn, or Long White This variety is clear white, except a little shade of green at the top of the root, which is long and carrot-like in form, cylindrical but usually ending in a point, and slightly crooked. The roots are often twelve to fifteen inches long by about two and one-half inches in diameter and grow about three inches out of the ground. The flesh is fine grained and well flavored, and for table use is in best condition when the roots are about two inches in diameter. Desirable for stock feeding and has obtained considerable favor as a market sort. The variety is of very rapid growth and well adapted for fall and early winter use. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.



EARLY PURPLE TOP, STRAP LEAVED



WHITE EGG

TURNIP—Continued



PURPLE TOP, WHITE GLOBE

condition well into the winter, in this respect resembling a Ruta Baga. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 70c.

Seven Top Cultivated extensively in the south for the tops which are used for greens. In many sections it is a favorite green feed for stock and its use like Rape for a pasture crop is quite general. It is very hardy and the growth usually continues throughout the winter. The variety is not generally depended on for the root since the tops are produced so abundantly. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Southern Prize Superior to Seven Top as usually sold and extensively grown in the south where the tops furnish an abundance of cuttings. These are valued highly for salad or greens. The roots of Southern Prize are valuable as well as the tops, being remarkably large, symmetrical and excellent for feeding stock. A favorite for forage in the Virginias and Carolinas where it usually thrives throughout the winter without protection. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

YELLOW FLESHED VARIETIES

Large Amber Globe One of the best yellow fleshed varieties, grown usually for stock feeding. Roots of large size and globular shape. Skin clear yellow except the top which is tinged with green. Flesh light yellow, fine grained and sweet. The variety keeps well and is a good cropper. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.



YELLOW STONE

Yellow Stone Roots of medium size, uniformly globular and perfect in shape; skin smooth and of attractive pale yellow color. Flesh pale yellow, crisp, tender and of very good quality. The roots are suitable for table use when three to four inches in diameter, but are more generally used for stock feeding. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Yellow Globe A round, smooth, light yellow turnip of medium size. The flesh is crisp, firm and of very good quality for the table or for stock feeding. The roots are in best condition for table use when three to four inches in diameter. This sort keeps well and is a good cropper. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Orange Jelly, or Golden Ball A distinct variety, one of the most delicately flavored of the yellow fleshed turnips. The tops are small. The roots are medium sized, round, very smooth and with deeper yellow skin than most of this class. The flesh is firm, crisp and of most excellent quality. The roots are in best condition for table use when about three inches in diameter. This variety is of quick growth, adapted to spring as well as fall planting, and keeps exceptionally well. Known also as Robertson's Golden Ball. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 70c.

Purple Top Yellow Aberdeen A medium sized, round, late maturing, yellow fleshed turnip. The roots are yellow with purple top. The flesh is pale yellow in color, of very firm texture, approaching the Ruta Baga in this regard, but tender and sweet. Since it requires a longer time to mature, the seed should be sown about two weeks earlier than most sorts. The variety is hardy, productive and especially valuable for stock feeding. Unequaled for its long keeping qualities and therefore particularly desirable for late winter and spring use. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.



COW HORN, OR LONG WHITE

Large White Norfolk Usually grown for feeding stock, and although a little coarse in texture it is of good quality for the table, but for the latter purpose is in best condition when about four inches in diameter. Roots of largest size, smooth, globe-shaped or slightly flattened and very white. It is allowed to stand out during the winter in the south where the tops are used for greens. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Pomeranean White Globe One of the most productive kinds and in good, rich soil roots will frequently grow to twelve pounds in weight. It is globe shaped or slightly flattened; skin very white and smooth. Used for stock feeding; also good for table use if pulled when the roots are not more than four to five inches in diameter. Where the winters are mild the tops are used for greens. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Sweet German A medium large white turnip, somewhat globular in shape, remarkably solid in texture, sweet and of very good quality. The roots are in best condition for table use when four to five inches in diameter, but can be grown much larger for stock feeding. It requires a long season for maturing and should be sown a month earlier than the flat turnips, but can be kept in good

RUTA BAGA, OR SWEDE

Uses and value much the same as turnip. Sow from the middle of June to the middle of July, in ground previously enriched with well rotted manure, in drills about two and one-half feet apart, covering about one half inch deep. Thin the young plants eight to twelve inches apart in the row. When the roots are full grown and before hard freezing weather, pull them, cut off the tops and store in a root cellar or pit. Ruta Bagas are sometimes sown broadcast and left to take chances with the weeds but the crop is seldom a success, though occasionally on new clearings free from weed seed, fair results are obtained.

American Purple Top, or Improved Long Island A strain of Purple Top Yellow ruta baga of American origin, selected to a smaller top and much shorter neck than is usually found, while the roots are a little more globular, grow to a large size and are of the finest quality. Excellent for table use and stock feeding. We consider this one of the most desirable sorts. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Bangholm An excellent variety both in shape and quality. The roots are of large size, slightly tankard shaped, with small neck, few or no side roots and yields well. The skin is yellow with purple top. The flesh is yellow, sweet and solid. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Carter's Imperial Purple Top Excellent for table use or feeding stock. Roots nearly round; skin yellow with purple top; flesh yellow, solid and sweet. Hardy and yields heavily. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

D. M. Ferry & Co's Improved Purple Top Yellow A hardy and productive variety having but little neck. The roots are large, slightly oblong or nearly globe shaped, fairly smooth, with comparatively small tap root. Color purplish-red above ground and bright yellow beneath. Flesh yellow, of solid texture, crisp and of very good quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Drummond's An improved strain of Purple Top Swede, excellent in uniformity of shape, color and quality. This variety is considered by many an excellent table sort. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.



PURPLE TOP YELLOW



MONARCH OR TANKARD

Hall's Westbury A large, round variety, a good keeper and very heavy yielder, which it is claimed will endure dry weather better than most sorts. Skin yellow with purple top. Flesh yellow, firm and of good quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Hartley's Bronze Top A very large, oval swede with very short neck. The color of the root is yellow, with bronze green top. This is a favorite sort in Canada and can be depended upon to give good satisfaction. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Laing's Purple Top Large, early and of excellent quality. Roots globe shaped; skin purplish red above ground, yellow beneath; flesh yellow; necks small; tops distinctly strap leaved or entire. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Monarch or Tankard A yellow fleshed sort, having very large, tankard shaped roots with relatively small neck and tops. The color is purplish-red above ground, yellow beneath. The flesh is very solid, fine grained and sweet. Sometimes sold as Elephant or Jumbo. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Perfection White Absolutely neckless. Tops small, strap leaved; flesh white and unusually fine grained. Vigorous in growth and usually yields better than the yellow fleshed sorts. While valuable for stock feeding, the white flesh is so excellent in quality that it is particularly desirable for table use. Pkt. 5c; Oz. 10c; 5 Oz. 15c; ¼ Lb. 25c; Lb. 75c.

Skirving's King of Swedes Though this purple top, round or slightly oval sort reaches a large size the yellow flesh is of most excellent quality. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Sutton's Champion Roots large, spherical, purple on top; flesh yellow, tender and sweet. It is an excellent keeper and yields heavily. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

Universal, or Canadian Gem Roots nearly round, purple above ground, yellow beneath; very small in top and neck; flesh yellow and of excellent quality. Exceptionally hardy and vigorous. Sometimes sold as Century. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

White Swede, or Sweet Russian An excellent keeper and very desirable either for the table or for stock. Tops small; strap leaved. Root very large, nearly globe shaped with small neck; color white with a shade of green or bronze at the top. Flesh white, very firm and sweet. Sometimes sold as Sweet Russian Turnip. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.

Yellow Swede Shape oblong, dull reddish color above ground but yellow underneath; is harder than the common turnip and will keep solid until spring. Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 60c.

AROMATIC, MEDICINAL AND POT HERBS

Most of the varieties thrive best on sandy soil and some are stronger and better flavored when grown on that which is rather poor. In all cases the soil should be carefully prepared and well cultivated, as the young plants are for the most part delicate and easily choked out by weeds. Sow as early as the ground can be made ready, in drills sixteen to eighteen inches apart, taking pains that the soil is fine and pressed firmly over the seed, or they may be planted as a second crop—the seeds sown in beds in April and the plants set out in June. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

ANISE (*Pimpinella anisum*) An annual herb cultivated principally for its seeds which have a fragrant, agreeable smell and a pleasant taste; used medicinally for aromatic cordials, colic and nausea. The leaves are sometimes used for garnishing and flavoring. Plant of slender upright growth with deeply cut foliage; flowers small, yellowish white, borne in large loose umbels. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

BALM (*Melissa officinalis*) A perennial herb, easily propagated by division of the root or from seed. The leaves have a fragrant odor similar to lemons and are used for making balm tea for use in fevers and a pleasant beverage called balm wine. Plant one to two feet high, hairy, loosely branched with ovate leaves; flowers white or pale yellow in loose axillary clusters. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

BASIL, SWEET (*Ocimum basilicum*) A hardy, aromatic annual. The seeds and stems have a strong flavor and are used in soups and sauces. Plant about eighteen inches high, branching, with ovate toothed leaves; flowers white or bluish white in leafy terminal racemes or spikes. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

BORAGE (*Borago officinalis*) A hardy annual used as a pot herb and for bee pasturage. The bruised leaves immersed in water give it an agreeable flavor and are sometimes used in salads to give a cucumber-like taste. Plant of coarse growth, hairy, with large oval leaves; flowers blue or purplish in racemes. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

CARAWAY (*Carum carvi*) A well known herb, cultivated for its seeds, which are used in confectionery, cakes, etc. The leaves are sometimes used in soups, for flavoring liquors and for colic in children. Plant one and one-half to two feet high, with finely cut foliage and clusters of small, white flowers. The plants never seed till the second year. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.**

CARAWAY, for Flavoring. **Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 50c.**

CORIANDER (*Coriandrum sativum*) A hardy annual cultivated for its seed which has an agreeable taste and is used in confectionery and to disguise the taste of medicine. Gather on a dry day, bruising the stems and leaves as little as possible, for when injured they have a disagreeable odor which they impart to the seed. Plant slender, two to two and one-half feet high, strong smelling, with smooth, finely cut foliage and small white flowers. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 65c.**

CORIANDER, for Flavoring. **Oz. 10c; 2 Oz. 15c; ¼ Lb. 20c; Lb. 50c.**

DILL (*Anethum graveolens*) An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning. It possesses medicinal properties but its largest use is for making dill pickles. Plant branching, two to three feet high; leaves very much cut into thread-like segments; flowers small, yellowish, borne in umbels. Seed flat. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

FENNEL, SWEET (*Foeniculum officinale*) A hardy perennial. The seeds of this aromatic herb have a pleasant taste, and are sometimes used in confectionery, also in various medicinal preparations. The young shoots are sometimes eaten raw and are used in salads, soups and fish sauces. Plant very branching, two to four feet high, with dense thread-like foliage; flowers light yellow in large loose umbels. Seed oval. **Pkt. 5c; Oz. 10c; 2 Oz. 15c; ¼ Lb. 25c; Lb. 75c.**

HOREHOUND (*Marubium vulgare*) A perennial herb with an aromatic odor and a bitter, pungent taste. It is a tonic and enters largely into the composition of cough syrups and lozenges. Laxative in large doses. Will thrive in any soil but is stronger if grown on light, poor land. Plant spreading, one to two feet high; leaves ovate, roughened, covered with whitish down; flowers small, white, borne at axils of leaves. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00**

HYSSOP (*Hyssopus officinalis*) A hardy perennial with an aromatic odor and a warm, pungent taste. It is a stimulant, expectorant and mild tonic. The flowering summits and leaves are the parts used. It does best on dry, sandy soil. Plant upright with narrow glossy dark green leaves; flowers small, borne in whorled spikes, blue, sometimes white or pink. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**

LAVENDER (*Lavandula spica*) A hardy perennial, growing about two feet high. It is used for the distillation of lavender water or dried and used to perfume linen. It should be picked before it becomes dry and hard and dried quickly. The seed is of rather slow and uncertain germination. Plant erect, with slender grayish green leaves and small violet-blue flowers. **Pkt. 5c; Oz. 20c; 2 Oz. 35c; ¼ Lb. 60c; Lb. \$2.00**

MARJORAM, SWEET (*Origanum marjorana*) An aromatic herb for seasoning. The young tender tops and leaves are used green in summer to flavor broths, dressings, etc., and are also dried for winter use. Usually grown as an annual as it is not hardy enough to endure the winter of the northern states. Plant erect but branching with small oval grayish green leaves and small purplish or whitish flowers. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.50**



SAGE

ROSEMARY (*Rosmarinus officinalis*) A hardy perennial, with fragrant odor and a warm, bitter taste. The leaves are used for flavoring meats and soups, and for medicinal drinks. Plant erect, branching with small slender leaves and small light blue flowers. The blossoms form the principal ingredient in the distillation of toilet waters. Plants do not reach a size suitable for use until the second season. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

RUE (*Ruta graveolens*) A hardy perennial with a peculiar, unpleasant smell. The leaves are bitter and so acrid as to blister the skin. It is a stimulant and antispasmodic but must be used with great caution, as its use sometimes results in serious injury. It must not be suffered to run to seed and does best on poor soil. Plant one and one-half to two feet high, becoming woody at the base; leaves much divided; flowers yellow. **Pkt. 5c; Oz. 30c; 2 Oz. 55c; ¼ Lb. \$1.00; Lb. \$3.00**

SAFFRON (*Carthamus tinctorius*) A hardy annual. Cultivated for its flowers which are used principally for coloring, sometimes for flavoring and to make the cosmetic powder called rouge. The flowers should be picked while in full bloom. Plant upright in growth, one to three feet high; leaves ovate, prickly; flower-heads yellow thistle-like. **Pkt. 5c; Oz. 10c; 2 Oz. 20c; ¼ Lb. 30c; Lb. \$1.00**

SAGE (*Salvia officinalis*) One of the most extensively used herbs for seasoning. It is also believed to possess medicinal properties. Hardy perennial, about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green, oval, wrinkled. Cut the leaves and tender shoots just as the plant is coming into flower and dry quickly in the shade. The plants will survive the winter and may be divided. If this is done they will give a second crop superior in quality. **Pkt. 5c; Oz. 15c; 2 Oz. 25c; ¼ Lb. 40c; Lb. \$1.25**

SAVORY, SUMMER (*Satureia hortensis*) A hardy aromatic annual twelve to fifteen inches high, the dried stems, leaves and flowers of which are extensively used for seasoning, especially in dressings and soups. Plant erect, branching; leaves small, narrow; flowers small, purple, pink or white, borne in short spikes. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**

THYME (*Thymus vulgaris*) An aromatic perennial herb, eight to ten inches high, used principally for seasoning. Plant very branching with wiry foliage and small lilac flowers. Sometimes the leaves are used to make a tea for the purpose of relieving nervous headache. Sow as early as the ground will permit. **Pkt. 5c; Oz. 40c; 2 Oz. 75c; ¼ Lb. \$1.25; Lb. \$4.00**

WORMWOOD (*Artemisia absinthium*) A perennial plant of fragrant and spicy odor, but with intensely bitter taste. The leaves are used as a tonic, vermifuge and as a dressing for fresh bruises. Plant erect, two to three feet high, with much divided leaves and loose clusters of small light yellow flowers. It may be raised from seed, propagating by cuttings or dividing the roots. A dry, poor soil is best adapted to bring out the peculiar virtues of this plant. **Pkt. 5c; Oz. 25c; 2 Oz. 40c; ¼ Lb. 75c; Lb. \$2.50**

CLOVER SEEDS

Prices of Clover subject to change.

Alfalfa, or Lucerne (*Medicago sativa*) It is useless to sow this clover on land having a stiff clay or hard pan subsoil, as the roots naturally penetrate to a great depth and must do so if the plants live any time. Sow on rich, moist loam or sandy soil having a deep, porous subsoil. Prepare the land thoroughly and sow seed at the rate of fifteen to twenty-five pounds per acre with a broadcaster or grass seeder. Cover with a brush or light harrow. The young plants are quite tender and the land must be free of weeds until they become established. $\frac{1}{4}$ Lb. 15c; Lb. 45c. postpaid; for larger lots inquire for prices.

Alsike, or Swedish (*Trifolium hybridum*) The most hardy of all clovers; perennial. On rich, moist soil it yields an enormous quantity of hay or pasturage, but its greatest value is for sowing with other clovers and grasses, as it forms a thick bottom and greatly increases the yield of hay; cattle prefer it to any other forage. The heads are globular, fragrant and much liked by bees which obtain a large amount of honey from them. Sow the seed in spring or fall, at the rate of six pounds per acre, when used alone. $\frac{1}{4}$ Lb. 15c; Lb. 40c. postpaid; for larger lots inquire for prices.

Crimson Trefoil, or Scarlet Italian (*Trifolium incarnatum*) An annual variety in common use in the south for feeding green and for hay, and also found very profitable on the sandy soils of New Jersey. The yield in fodder is immense and after cutting, it at once commences growing again, continuing until severe, cold, freezing weather. It grows about one foot high; the roots are nearly black; leaves long; blossoms long, pointed and of very deep red or carmine color. Makes good hay. It is sown in August or September in the south, but should not be planted in the north until spring. Sow ten to fifteen pounds per acre. $\frac{1}{4}$ Lb. 15c; Lb. 35c. postpaid; for larger lots inquire for prices.

Mammoth, or Large Red (*Trifolium pratense*) Grows nearly twice the size of the Common Red Clover, often making a stand when the other clovers fail. Sow about eight to twelve pounds per acre. $\frac{1}{4}$ Lb. 15c; Lb. 40c. postpaid; for larger lots inquire for prices.

Medium Red, or June (*Trifolium pratense*) This is by far the most important of all the varieties for practical purposes. Sow in spring or fall and if no other grasses are used, at the rate of eight to twelve pounds per acre; more is required on old, stiff soils than on new and lighter ones. $\frac{1}{4}$ Lb. 15c; Lb. 40c. postpaid; for larger lots inquire for prices.

White Dutch (*Trifolium repens*) A small, creeping perennial variety valuable for pasturage and for lawns. It accommodates itself to a variety of soils, but prefers moist ground. Sow in spring at the rate of six pounds per acre, or when used with other grasses, half that amount. $\frac{1}{4}$ Lb. 20c; Lb. 60c. postpaid; for larger lots inquire for prices.



ALFALFA

GRASS SEEDS

Prices on Grass Seeds subject to change.

Woolless Brome Grass (*Bromus inermis*) A perennial, valuable for binding the soil of embankments and for resisting both drought and cold. On light, dry soils it is used for hay and pasturage, but is not recommended where better grasses will succeed. Sow forty pounds per acre. Lb. 30c. postpaid; for larger lots inquire for prices.

Creeping Bent Grass (*Agrostis stolonifera*) Particularly valuable for lawns that are to be used as croquet and tennis grounds, because it is benefited more than hurt by tramping and by its bright color adds to the beauty of the lawn. Lb. 45c. postpaid; for larger lots inquire for prices.

Hard Fescue (*Festuca duriuscula*) Similar to Sheep's Fescue, but not so dense and taller; this often will cover sandy soil under the shade of large trees where no other grass will grow; is a desirable addition to lawn grass. Sow thirty pounds per acre. Lb. 40c. postpaid; for larger lots inquire for prices.

Kentucky Blue Grass (*Poa trivialis*) Fancy Clean. Sometimes called June Grass, but the true June or Wire Grass is much inferior. Kentucky Blue Grass is the most nutritious, hardy and valuable of all northern grasses. Sown with White Clover it forms a splendid lawn; for this purpose use not less than fifty-four pounds of Blue Grass and six pounds of White Clover per acre. If sown by itself for meadow or pasturage use about twenty-eight pounds per acre. Lb. 35c. postpaid; for larger lots inquire for prices.



TIMOTHY



PERENNIAL RYE

Meadow Fescue, or English Blue Grass (*Festuca pratensis*) A perennial, from two to four feet high, with flat, broad leaves. One of the standard European grasses. It needs rich ground and succeeds well on prairie soil. An excellent pasture grass to take the place of the wild grasses, as it yields a large amount of early and late feed. Sow about twenty-five pounds per acre. Lb. 40c. postpaid; for larger lots inquire for prices.

Orchard Grass (*Dactylis glomerata*) Desirable on account of its quick growth and valuable aftermath. It is ready for grazing in spring two weeks sooner than most grasses and when fed off is again ready for grazing in a week and will continue green when other grasses are withered by dry weather. It is palatable and nutritious and stock eat it greedily when green. A tendency to grow in tufts infests it for lawns. It does better if sown with clover and as it ripens at the same time, the mixed hay is of the best quality. If sown alone, about twenty-eight pounds are required per acre; if sown with clover, half that quantity. Perennial and will last for years. Lb. 40c. postpaid; for larger lots inquire for prices.

Perennial Rye Grass (*Lolium perenne*) A very valuable variety for permanent pasture. Succeeds well on almost any soil, but is particularly adapted to moderately moist or irrigated lands. Sow thirty to forty pounds per acre in spring. Lb. 25c. postpaid; for larger lots inquire for prices.

Red, or Creeping Fescue (*Festuca rubra*) A creeping, rooting grass, resisting extreme drought, and especially adapted for forming a close and lasting turf in shady places. Valuable also for exposed hillsides, and golf courses. Sow thirty pounds per acre. Lb. 45c. postpaid; for larger lots inquire for prices.

Red Top (*Agrostis vulgaris*) In Pennsylvania and states farther south this is known as *Herd's Grass*, a name applied in New England and New York to Timothy. It is a good, permanent grass, standing our climate well, and makes good pasture when fed close. Is valuable for low, wet meadows, producing a large return in good hay. When sown alone, use about twenty-eight pounds of the chaff seed per acre. Sow in spring or fall.

Red Top Fancy (cleaned from chaff) Sow eight to ten pounds per acre. Lb. 35c. postpaid; for larger lots inquire for prices.

Red Top Unhulled Fancy (free from light chaff) Lb. 25c. postpaid; for larger lots inquire for prices.

GRASS SEEDS—Continued

Rhode Island Bent Grass (*Agrostis canina*) A valuable perennial for lawns and pasturage. Much like Red Top, though smaller. Thrives on light, dry soils as well as on rich, moist ones. For lawn purposes, if used alone, it should be sown at the rate of about forty pounds per acre; for pasture, if used alone, twenty-four pounds per acre. **Lb. 45c. postpaid**; for larger lots inquire for prices.

Sheep's Fescue (*Festuca ovina*) A small tufted, hardy grass forming a cluster of narrow, cylindrical leaves. It is of value in mixture for lawns on dry soils and in shady locations. Sown about thirty-five pounds per acre. **Lb. 40c. postpaid**; for larger lots inquire for prices.

Tall Fescue (*Festuca elatior*) A valuable perennial grass, very productive and nutritious. Succeeds best on moist, heavy soil, but will do well on any good soil, wet or dry. If used alone sow forty pounds per acre. **Lb. 45c. postpaid**; for larger lots inquire for prices.

Tall Meadow Oat Grass (*Avena elatior*) A hardy perennial much used in the south and west. Roots penetrate deep. It yields a heavy crop on any good soil, and is valuable both for meadow and pasture. Sow thirty to forty pounds per acre. **Lb. 40c. postpaid**; for larger lots inquire for prices.

Timothy (*Phleum pratense*) The most valuable of all the grasses for hay, especially in the north. Thrives best on moist, loamy soils of medium tenacity. It should be cut just when the blossom falls. Sow early in the spring or fall, at the rate of twelve pounds per acre, if alone, but less if mixed with other grasses. **Lb. 25c. postpaid**; for larger lots inquire for prices.

Wood Meadow Grass (*Poa nemoralis*) Grows from one and one-half to two feet high; has a perennial creeping root and an erect, slender, smooth stem. Well adapted to shaded situations, such as orchards and parks, for either hay or pasture. Sow about thirty pounds per acre. **Lb. 60c. postpaid**; for larger lots inquire for prices.

LAWN GRASS SEEDS

Prices on Grass Seeds subject to change. The pound prices include postage; 100 pound prices are by freight or express, at purchaser's expense.

The essentials for a fine lawn are: First, a rich, well drained soil; second, careful preparation of the ground, making it as fine and smooth and mellow as possible; third, a wise selection of seeds; fourth, sowing at such a time as to give the young plants a chance to become well established before being subjected to very dry or cold weather or to the direct rays of the hot summer sun. However much care is bestowed on the soil and seed, no lawn will be beautiful without frequent mowing and rolling. Too much care cannot be bestowed upon the selection of grasses, as some varieties are the most luxuriant in spring, others in summer, others again in autumn and a combination of the proper sorts is required for a perfect, carpet-like lawn. It may be planted early in spring or fall and should be sown at the rate of sixty to one hundred pounds per acre; much more is required than for hay or pasturage. If sown in the spring, sow as early as possible, making the surface very fine and smooth, then raking it over and sowing the seed just before a rain which, if the surface has just been raked, will cover the seed sufficiently. If the expected rain does not come, cover by rolling with a light roller. For fall seeding sow before the autumn rains and early enough to enable the young grass to become well established before very cold weather, when a light dressing of manure should be given.

Extra Fine Mixed (*Central Park Mixture*) We have given much thought and made many experiments to secure the best selection and think our Central Park Mixture is the best possible for permanent lawns. One pound of this mixture is sufficient to sow 600 square feet. **Lb. 45c; 100 Lbs. \$30.00**

Fine Mixed Lawn Grass A thoroughly first-class mixture made of the best and cleanest grades of those varieties used and best adapted to general lawn purposes. **Lb. 35c; 100 Lbs. \$20.00**

Shady Lawn Mixture A selection of fine grasses which thrive under the shade of trees or buildings where there is little sun. **Lb. 60c.**

Mixtures for Golf Links While there are on the market numerous ready prepared golf mixtures of more or less value, we have found that the best results are obtained by giving individual attention to each customer and making a special mixture to suit his needs. We have thus overcome the difficulties presented by the great dissimilarity of local conditions of various links and are willing to give you the benefit not only of our experience on some of the best greens in this country but of expert knowledge of grass seeds as well. Write us a description of your links, telling what the nature of the soil is, how drained, how much it has the sun, whether the winters are long or open and whether the summers are wet or dry and we will offer you two or more mixtures especially adapted to the various parts of your grounds.

MISCELLANEOUS FARM SEEDS

Barley, Common Barley succeeds best on rich lands more sandy and lighter than those adapted to wheat. It is sown in the spring and can be grown farther north than any other grain. Unless intended for seed it should be cut before fully ripe as it is then heavier, of better quality and less liable to shell. Use about two and one-half bushels per acre. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Buckwheat, Common Buckwheat should be sown about June 20, broadcast, at the rate of about one-half bushel per acre; the average yield being from twenty-five to thirty bushels. It should be threshed as soon as dry, for if allowed to stand in mass it is apt to spoil. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Buckwheat, Japanese The plants are large and vigorous, maturing seed early and resisting drought and blight remarkably well; the grain is much larger and has a thinner hull than the Common or the Silver Hull. We recommend this variety especially for well drained or sandy land and the dry climate of the western plains. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Buckwheat, Silver Hull This improved variety is much better than the old sort. It is in bloom longer, matures sooner, and yields double the quantity per acre. The husk is thinner, the corners less prominent and the grain of a beautiful light gray color. The flour is said to be better and more nutritious. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Flax (*Linum usitatissimum*) Sow late enough in the spring to avoid frost and early enough to secure a good stand and enable the crop to ripen before the fall rains. A fair average quantity of seed to be sown on an acre is one-half bushel, when cultivated for seed; if for the fibre a larger quantity should be sown. Cut before quite ripe and if the weather be dry let it lie in the swath a few hours, when it should be raked and secured from the weather; thresh early in the fall and in dry weather. **3 Lbs. postpaid 60c**; for larger lots inquire for prices.

Hungarian (*Panicum germanicum*) This is a species of annual millet growing less rank, with smaller stalk, and darker beard, and often yielding two or three tons of hay per acre. It is very valuable and popular with those who are clearing timber lands. Sow and cultivate like millet. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Millet, Common (*Panicum miliaceum*) Requires a dry, light, rich soil, and grows two and one-half to four feet high with a fine bulk of stalks and leaves. It is early maturing and is excellent for forage. For hay, sow broadcast, about twenty-five pounds per acre, from May 1st to August 1st. For grain, sow in drills, about twelve pounds per acre and not later than June 20th. **3 Lbs. postpaid 50c**; for larger lots inquire for prices.

Millet, German or Golden An improved large leaved variety, growing three to five feet high; later maturing than Common Millet, and a heavy yielder. The heads, though numerous, are very large and compact. The seeds are contained in rough, bristly sheaths and are round, golden yellow in color and very attractive in appearance. **3 Lbs. postpaid 55c**; for larger lots inquire for prices.



HUNGARIAN

MISCELLANEOUS FARM SEEDS—Continued

Prices of all articles quoted on this page subject to change.

Rape DWARF ESSEX FOR SOWING. There is but one variety of Rape that has proven profitable to sow in America and that is the Dwarf Essex. Do not be deluded into buying inferior grades offered by unscrupulous dealers through exaggerated advertisements. Such seed is often more or less mixed with the annual variety which is not only worthless as forage, but once planted is likely to become a pernicious weed. There is no plant that will give us heavy a yield of forage at such a small cost as this, and its general cultivation would add largely to the profits of American farms. Especially valuable for green manuring and pasture. When fed off by sheep, it will probably do more to restore and make profitable exhausted soils than any other plant. Biennial.



RAPE, DWARF ESSEX

Ground should be prepared same as for turnips. Sow in June or July, with a turnip drill, in rows two and one-half feet apart at the rate of two and one-half pounds of seed per acre. It may be sown broadcast, either with other fall forage crops or by itself, using from one to five pounds of seed per acre. **Lb. 25c. postpaid.** By freight or express, at purchaser's expense. **10 Lbs. \$1.25; 100 Lbs. \$7.50**

Rye, Spring Although this grain is often planted especially for paper makers, who prefer it to any other, its principal value is as a "catch" crop to sow where winter grain has failed. Straw shorter and stiffer than the winter variety and always easily scented. The grain, although smaller, is of equal value. **3 Lbs. 50c. postpaid.** For larger quantities inquire for prices.

Sugar Cane (Sorghum)

Albaugh Early The best early variety and the one which we especially recommend for the north where the season is short. It is practically as early as the old Early Amber and yields much more per acre either of syrup or seed. The plant is large, of strong, vigorous and erect

habit and stands up much better than Early Amber. It may be planted as late as the 15th of June and will be in condition to harvest for syrup in September. Cane seed should not be planted before the weather is warm in the spring. Three to four pounds of seed are required per acre. **Lb. 20c. postpaid.** By freight or express, at purchaser's expense. **100 Lbs. \$6.00**



SUGAR CANE, ALBAUGH EARLY

Early Orange An exceedingly valuable variety; very large, of strong and vigorous habit and does not fall down. It is early and often yields as much as two hundred and forty gallons of very beautifully colored and highly flavored syrup to the acre. We recommend it highly to all desiring a superior cane. **Lb. 20c. postpaid.** By freight or express at purchaser's expense, **100 Lbs. \$6.00**

Imperial This new variety is particularly valuable for feeding stock, as well as for sugar making. The plants do not grow as tall as the Early Orange or the Albaugh Early but show a decided tendency to stool, or send up shoots. The cane is very leafy and comparatively slender and practically the entire plant is suitable for feed. Our seed is northern grown and should not be confused with the inferior western and south-western grown cane. **Lb. 20c. postpaid.** By freight or express at purchaser's expense, **100 Lbs. \$6.00**

Sunflower LARGE RUSSIAN. This has very large single heads borne at top of a single unbranched stalk with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows ten feet high. Sow seed as soon as ground is fit for planting corn, in rows three to four feet apart and ten inches apart in row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in a rail pen having a solid floor or in a corn crib. After curing so that they will thresh easily, flail out or run through a threshing machine and clean with a fanning mill. This variety will yield 1,000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament. (See Sunflower, page 86.) **Pkt. 5c; 1/2 Lb. 10c; Lb. 25c. postpaid;** for larger quantities inquire for prices.

Vetches or Tares SPRING (Vicia sativa) A perennial pea-like plant grown as an annual in the north. Desirable as a forage plant and valuable as a cover-crop for orchards. Culture same as for field peas. Sow two bushels per acre. **Lb. 25c. postpaid;** for larger lots inquire for prices.

Vetches SAND, WINTER OR HAIRY (Vicia villosa) A very hardy forage plant growing well on soils so poor and sandy that they will produce but little clover. Its nitrogen gathering properties make it particularly valuable as a soil renewer and enricher but it is not recommended for land which is to be cultivated for grain crops on account of its tendency to volunteer and persist. The plants, when mature, are about forty inches high and if cut for forage as soon as full grown and before setting seed, they will start up again and furnish even a larger crop than the first. Seed round, black and should be sown one to one and one-half bushels per acre. **Lb. 30c. postpaid;** for larger lots inquire for prices.

BIRD SEEDS

Prices by mail or express, prepaid.

| | | | |
|-------------|----------------------|--------------|----------------------|
| Canary..... | Lb. 25c; 3 Lbs. 60c. | Maw..... | Lb. 25c; 3 Lbs. 60c. |
| Hemp..... | " 20c; 3 " 50c. | Millet..... | " 20c; 3 " 50c. |
| Rape..... | " 20c; 3 " 50c. | Lettnec..... | " 40c. |

Mixed Bird Seeds, **Lb. 20c; 3 Lbs. 50c.**

A DESCRIPTIVE LIST OF CHOICE FLOWER SEEDS

WITH GENERAL DIRECTIONS FOR CULTIVATION

MOST flowering plants will live in almost any soil, but to give them a fair chance to develop, some care should be taken to make the ground suited to their needs. Many flowers are better if produced on plants of vigorous growth, hence a portion of the garden should be prepared by deep digging, thorough pulverization and liberal enriching with large quantities of well rotted manure. Since some other varieties produce the largest and finest colored flowers when grown on rather light, poor soil, a portion of the garden should not be enriched.

Cultural directions are given on the packets, and we urge purchasers to study them carefully. While some seeds need special treatment, the following general rules will apply to all. Make the surface of the soil as fine, smooth and level as possible; do not plant when the ground is wet; cover each lot of seeds to a uniform depth, which should not be more than four or six times the diameter of the seed; press the soil firmly over the seed; plant in rows so that the starting plants can be seen easily; thin out the young plants to prevent crowding and keep entirely free from weeds.

Plants are usually divided into three classes, Annuals, Biennials and Perennials. Annuals are plants which normally live but a single season. Biennials are plants living two years; particularly those which do not bear flowers and fruit until the second season. Perennials tend to live from year to year.

ALL FLOWER SEEDS SENT POSTPAID ON RECEIPT OF PRICE

| | | | |
|--|--------|--|---------|
| Send us \$1.00 and select PACKETS to the value of..... | \$1.15 | Send us \$4.00 and select PACKETS to the value of..... | \$4.85 |
| " 2.00 " | " 2.35 | " 5.00 " | " 6.15 |
| " 3.00 " | " 3.60 | " 10.00 " | " 12.50 |

These Rates apply only to Seeds in Packets, but not to Seeds by Weight.
No discount can be allowed on Flower Seeds by Weight.
Half ounces will not be supplied of kinds which sell for less than 30 cents per ounce.

Acroclinium (*Everlasting*) A very pretty, half hardy annual producing white and rose colored, double, daisy-like flowers, about one and one-half inches in diameter. These are "Immortelles" so desirable for wreaths and winter bouquets. Sow the seed in open ground early in spring, preferably in light, well prepared soil, and cover with one-fourth inch of fine soil firmly pressed down. Thin the young plants to four inches apart. Height fifteen inches.

| | |
|----------------------------------|----------|
| Album, Pure white, Oz. 20c..... | Pkt. 5c. |
| Roseum, Light rose, Oz. 20c..... | " 5c. |
| Mixed, Oz. 20c..... | " 5c. |

Ageratum A beautiful, hardy annual of neat bushy habit. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Sow outdoors after danger from frost is over; or for earlier blooming start under glass and transplant. Cover the seed with one-eighth to one-fourth inch of fine soil firmly pressed down.

| | |
|---|----------|
| Mexicanum, Light blue; about two feet high, Oz. 30c..... | Pkt. 5c. |
| Imperial Dwarf White, Height ten inches, Oz. 50c..... | " 5c. |
| Tom Thumb Dwarf Blue, For edging; eight to ten inches high, " 5c. | " 5c. |
| Mixed, Seeds of the above varieties mixed..... | " 5c. |

Alyssum The annual varieties can be grown very readily either outdoors or in the house and by cutting back the plants properly an almost constant succession of bloom may be had. Seed can be sown in open ground very early in spring, or may also be sown outdoors in fall.

Sweet (*Maritimum*) This very hardy annual for borders, edging or massing in small beds, comes into bloom early in the spring, covering itself with clusters or trusses of small, pure white cruciform flowers. They have a peculiar, delicate fragrance and are useful in small bouquets. Usually not over eight inches high but spreads over considerable ground. Oz. 25c..... Pkt. 5c.

Little Gem (*Carpet of Snow*) A beautiful white variety of Sweet Alyssum, especially adapted to edgings, borders and rock work. The plants grow about six inches high, produce hundreds of flowers and form a compact mass of bloom usually fifteen to eighteen inches in diameter. Hardy annual. Oz. 40c..... Pkt. 5c.

Amaranthus These plants afford brilliant contrasts of color, being useful for tall borders and groups, also where foliage effects are desired. The leaves and stems are of different shades of red, blended usually with green; two to three feet high. Seed may be sown in open ground early in spring, covering one-fourth inch deep; thin two to three feet apart.

Melanolicus ruber, Deep coppery red; very hardy annual. Pkt. 5c.
Tricolor, A hardy annual with leaves of red, yellow and green; well known as "Joseph's Coat." Especially brilliant if grown in rather poor soil. Oz. 25c..... Pkt. 5c.

Anemone Coronaria (*Wind Flower*) Among the earliest and brightest of spring flowers. They are about two inches across, resemble the single poppy in shape and come in several shades of color. Sow any time from April to August. Succeeds well in rich, light loam, in a sunny situation. Hardy perennial; six inches high..... Pkt. 5c.
ANTIRRHINUM (See Snapdragon) AQUILEGIA—(See Columbine)

Arabis Among the earliest blooming plants. Very useful for rock work, edgings, etc. Sow early in spring. Some winter protection is advisable. Hardy procumbent perennial.
Alpina, Small pure white, cruciform flowers..... Pkt. 5c.

Asparagus The ornamental varieties of asparagus are highly valued for their finely cut foliage. Both the climbing and trailing sorts are exceptionally attractive. Soak seed in warm water before planting. When the plants are large enough to handle, transplant into rich, but open and friable soil.

Sprengeri (*Emerald Feather*) A most graceful house plant; valuable for hanging baskets. Sprays three to four feet long; light green. Oz. 75c..... Pkt. 5c.

Verticillatus, A beautiful climber having feathery foliage and scarlet berries which are quite ornamental. Sow early in spring. Hardy perennial; generally ten to fifteen feet high..... Pkt. 10c.



AGERATUM

ASTER

The Aster, in its many varieties, is unsurpassed for bedding and cutting, and is not only one of the most profitable annuals for the professional florist but also one of the most satisfactory for the home garden. The great diversity of size, color, form and season of blooming makes it one of the most suitable plants for supplying cut flowers. The plants are usually of vigorous growth and so hardy that they endure a slight frost without serious injury. By planting the different strains and at different times, one may have in the latitude of Detroit a constant succession of bloom from the last of July till the middle of October without the aid of a greenhouse or even a hotbed.

Seed may be sown outdoors as early in spring as the ground is warm and dry, or for earlier blooming may be started indoors or in a cold frame and transplanted in the open ground after danger of killing frost is over. If conditions are favorable they will usually do well in any well prepared garden soil but a strong loam that has been well fertilized the previous year is preferable. In planting cover the seed with about one-fourth inch of fine soil firmly pressed down. The rows for most of the varieties should be about one and one-half feet apart. When about one to two inches high, thin to sixteen inches apart in the row. It is desirable during warm and dry weather to water thoroughly the plants two or three times a week, preferably early in the morning or evening. It is desirable to change the location as often as practicable.

Insects, such as the red spider, may be kept at bay by frequently spraying with clear water, or for insects that eat the foliage add one-fourth teaspoonful of Paris Green to ten gallons of water. Sprinkle with tobacco water or dust to keep off the plant louse. We offer choice seed that has been grown for us from the best types by the most skilful cultivators in America and Europe and which is more certain to give good results than most of that on the market.

Extra Early Hohenzollern Plants of medium size and branching habit, about eighteen inches high, extremely early and producing abundantly on long stems blooms of large size, often four inches in diameter. The petals are long and recurved, of open Comet type and unusually graceful in their seemingly careless arrangement. These asters have the desirable combination of extreme earliness, large size and splendid cutting qualities. Known also as Express Comet.

White. The largest early white aster. Oz. \$1.50.....Pkt. 10c. **Rose.** The earliest red aster. Oz. \$1.50.....Pkt. 10c.
The Bride. A distinctive bluish white. Oz. \$1.50..... " 10c. **Dark Blue.** The earliest large deep blue. Oz. \$1.50..... " 10c.
Mixed. The four varieties above. Oz. \$1.50..... " 10c.
Hohenzollern Silver Lilac. A charmingly delicate shade; a little later than the extra early Hohenzollern. Oz. \$1.50.... " 10c.

Queen of the Market Very desirable on account of earliness as well as profuse blooming and wide range of colors. The plants are of branching habit, about eighteen inches high, bearing on long stems from ten to fifteen finely formed double flowers of medium size. Fine for cutting. The colors include white, pink, deep rose, light blue, dark blue, violet and crimson. This class is known also as Queen of the Earlies. **Mixed.** Oz. 75c.....Pkt. 10c.

Victoria An early strain much superior to the old type of Victoria. The flowers are large, often three and one-half inches across and are very full in the center. The petals are broad and thick and curve outward, overlapping so regularly as to resemble those of the double dahlia. Plants about eighteen inches high and very free flowering.

White. Clear white, one of the most useful. Oz. \$1.25....Pkt. 10c.
Light Blue. Light lavender blue, very free flowering. Oz. \$1.25... " 10c.
Peach Blossom. Delicate shade of rose. Oz. \$1.25..... " 10c.
Violet. Oz. \$1.25..... " 10c.
Deep Red. Brilliant carmine shade " 10c.
Dark Blue. Oz. \$1.25..... " 10c.
Crimson. Oz. \$1.25..... " 10c.
Mixed. Oz. \$1.25..... " 10c.

Daybreak This very desirable, medium early variety is a compact, upright growing, branching plant. Flowers borne on long stems, almost round, exceptionally well formed and very double with regularly incurved petals. The color is a delicate light pink. Height fifteen to twenty inches. Oz. \$1.50.....Pkt. 10c.

Purity Similar to Daybreak but pure white. One of the best early white asters. An excellent variety for cutting. Oz. \$1.50.....Pkt. 10c.

Mikado Pink A remarkably beautiful mid-season aster of very large size and fine form, at first white but changing gradually to light rose or rose with lavender tint. The petals are long, rather flat, some of them slightly curved and twisted, and cover well the centers of the flowers. Plants about two feet high, branching and bear very large flowers on stems twelve to sixteen inches long. Known also as Rochester. Oz. \$1.50.....Pkt. 15c.



EXTRA EARLY HOHENZOLLERN

ASTER—Continued

Comet, Semi-Dwarf This mid-season class of semi-dwarf Comet Asters is fully two weeks earlier in blooming than the older Comet strains and though more compact in growth of plant is very floriferous. Flowers often three inches or more in diameter with centers well covered and petals broad and recurved; very satisfactory for cutting. Plant branching but rather upright in habit about eighteen inches high.

| | | | |
|---|-----------|-----------------|-----------|
| White..... | Pkt. 10c. | Light Blue..... | Pkt. 10c. |
| Light Rose..... | " 10c. | Lilac..... | " 10c. |
| Mixed. Includes the four above varieties mixed..... | " 10c. | | " 10c. |

Violet King Similar in habit of growth to the late branching asters but producing a little earlier very large double blossoms of distinct form, many of the petals being slightly quilled and curved. The inner petals are incurved covering well the center. Color a soft and pleasing shade of violet. A hardy and blight resistant sort about twenty inches high with long stems suitable for cutting. Oz. \$1.30.....Pkt. 10c.

Truffaut's Perfection Peony Flowered Plants of this mid-season class are upright, about two feet high. They produce on long stems large, perfectly formed and brilliantly colored flowers, with petals curving upward and inward, forming blooms of great beauty.

| | | | |
|-----------------------------|-----------|--------------------------|-----------|
| Snow White. Oz. \$1.25..... | Pkt. 10c. | Rose. Oz. \$1.25..... | Pkt. 10c. |
| Light Blue. Oz. \$1.25..... | " 10c. | Crimson. Oz. \$1.25..... | " 10c. |
| Dark Blue. Oz. \$1.25..... | " 10c. | Mixed. Oz. \$1.25..... | " 10c. |

Crego Giant Pink A beautiful soft shell pink flower of largest size, with very long petals which are very attractively curled and twisted. Plant branching and very vigorous, with long, strong stems, very desirable for cutting. A mid-season sort, considered by many as decidedly the best aster yet introduced. Oz. \$2.00.....Pkt. 15c.

Crego Giant White Similar to Crego Giant Pink, but the flowers are glistening pure white. The petals grow so thickly that the flowers show nothing of the ragged appearance seen in some of this class of asters. One of the best for cutting. Oz. \$2.00.....Pkt. 15c.



VIOLET KING AND SEMPLE'S DARK PURPLE

Giant Comet In this class of asters the petals are very long and recurved and twisted near the center. Plants branching about two feet high, more vigorous and taller growing than the ordinary Comet; flowers larger and equal in form. A desirable class coming into bloom rather late. Known also as Ostrich Plumbe.

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| Giant White. Oz. \$1.50..... | Pkt. 15c. |
| Giant Mixed. Oz. \$1.50..... | " 15c. |

Peerless Pink Flowers a very pleasing shade of rich shell pink. They are of very large size, exceptionally attractive form and are borne on very long stems. Plants branching, two to two and one-half feet high. One of the most desirable late asters for cutting. Oz. \$1.50.....Pkt. 20c.

Semple's Branching A class of very strong growing asters usually not coming into bloom until the latter part of August, but producing on very long stems full petalled, exceptionally large, double blossoms of fine form. Plants distinctly branching, about two feet high. For many years this class with us has been almost entirely free from the aster blight.

| | |
|--|-----------|
| White. Oz. \$1.00..... | Pkt. 10c. |
| Blush White. White, slightly tinged with pink. Oz. \$1.00..... | " 10c. |
| Mary Semple. Flesh pink. Oz. \$1.00..... | " 10c. |
| Light Pink. Oz. \$1.00..... | " 10c. |
| Tyrian Rose. Very attractive deep purplish rose. Oz. \$1.00..... | " 10c. |
| Lavender. Oz. \$1.00..... | " 10c. |
| Light Blue. Oz. \$1.00..... | " 10c. |
| Deep Carmine. Oz. \$1.00..... | " 10c. |
| Crimson. Oz. \$1.00..... | " 10c. |
| Dark Purple. Oz. \$1.00..... | " 10c. |
| Semple's Mixed. Oz. 90c..... | " 10c. |

Aster, Finest Mixed A mixture of very fine strains and colors. The bed can be made more attractive by pulling up the early plants as soon as they are out of bloom. Oz. 90c. Pkt. 5c.

BABY'S BREATH (See *Gypsophila*)

BACHELOR'S BUTTON (See *Centaurea*)

Balloon Vine (*Cardiospermum halicacabum*) A favorite with children, being remarkable for its inflated membranous capsules containing the seed. It is sometimes called "Love-in-a-Puff." A rapid and graceful climber. Flowers small, white. The round black seed is marked with a white heart-shaped spot. Sow seed in open ground early in spring and give the plant some support to run upon. Tender annual; six feet high. Oz. 20c.....Pkt. 5c.

Balsam

Known as Lady Slipper and Touch-me-not. The brilliantly colored, double rose-like flowers of this well-known border and bedding annual are thickly set along the branches of the erect

bushy plants. The dainty individual flowers, often two inches across, are borne on very short stems and when cut they show to best advantage floating in a dish of water. The colors range from white to dark purple, and are either self colored or spotted and striped. Balsams are tender and should be started in boxes indoors or in the open ground when danger of frost is past. The plants prefer a rich moist or even wet sandy loam, and must not suffer for moisture. They do best if allowed eighteen inches apart each way in a sunny situation. Larger and more double flowers will be obtained if some of the young shoots are cut out when quite small, or by transplanting two or three times. Hardy annual; one to two feet high.

- Double Solferino.** Flowers satiny white, streaked and spotted with crimson and lilac. Oz. 60c.....Pkt. 5c.
- Double Camellia, extra fine mixed.** As double as a Camellia, which this variety resembles; white blotched with various colors. Oz. 60c. Pkt. 5c.
- Double Pure White.** Well adapted for florists' use and for bouquets, very double. Oz. 60c.....Pkt. 10c.
- Double Dark Red.** (*Abosanguinea plenissima*) Very double, dark red blossoms.Pkt. 10c.
- Mixed Double Dwarf.** About one foot high. Oz. 50c.....Pkt. 5c.
- Mixed Double Tall.** About two feet high. Oz. 40c..... " 5c.

Begonia

Very desirable for pot culture or for bedding out in partially shaded locations. Suitable also for window boxes. Some varieties are grown for their foliage, but most sorts when

given proper care produce abundantly large clusters of brilliantly beautiful wax like flowers of the form and substance. Sow seed in February or March in shallow boxes or small pots plunged in moss. Begonia seed is extremely small and great care should be taken in opening the packet and planting. Open the packet directly over the surface to prevent any seed being lost. The surface of the soil should be very smooth and the seed carefully scattered on the surface and lightly pressed in. The moss should be kept quite damp, but the surface of the soil should not be watered. Moisture can be retained in the soil by placing a glass over the box or pots. When the plants are large enough to handle, transplant into small pots, and to larger sized pots as required. For winter or spring blooming, sow from August to September. For outdoor bedding, select a shady moist situation, making the bed rich with well rotted manure and leaf mold, if obtainable. The young plants started indoors may be set out when the weather is warm and settled. Water thoroughly every day. Tender perennial, blooming the first year if started early, one foot high.

Tuberous Rooted Begonias

The tuberous rooted varieties, if planted early in a temperature of sixty to seventy degrees, will with proper care give an abundance of bloom the first year. At the end of the season they may be dried off by withholding water, the tubers kept in a dry place free from frost and planted the following spring, when they will bloom more freely than before.

- Robusta Perfecta.** Plants are of robust, compact habit, dark green foliage and brilliant, double, cinnabar-scarlet flowers.Pkt. 25c.
- Single Mixed.** The seed we offer will produce the finest single flowers in various shades ranging from white to deep red.Pkt. 25c.
- Double Mixed.** The largest and best double flowers, including shades of pink, red, scarlet and light yellow.Pkt. 35c.

Fibrous Rooted Begonias

Of the kinds offered under this head Begonia Rex is grown for its very attractive ornamental foliage, while the others are among the most desirable for flowering in the house, or in partly shaded locations outdoors.

- Vernon** (*Semperflorens atropurpurea*) Flowers brilliant, rich red, set off perfectly by the abundant, glossy green leaves, which are broadly margined with bronze and purple. Hardy and floriferous; the best of the semperflorens class.Pkt. 15c.
- Semperflorens alba.** A very useful variety, well adapted for house or outdoor culture. Plants of compact dwarf habit, and under proper treatment almost continuous bloomers. Easily grown; flowers very attractive bluish white.Pkt. 15c.
- Semperflorens rosea.** Like Semperflorens alba, except flowers are rose colored. " 15c.
- Rex.** Ornamental leaved varieties. Leaves very large, and are either a rich crimson tinted bronze, or emerald hued, having the upper surface zoneled or spotted with silvery white. Finest mixed.Pkt. 25c.

For Begonia Bulbs, see Bulbs and Roots, page 93.

BELLIS—(See Daisy)

Bignonia Radicans

(*Tecoma radicans, Trumpet Vine*) One of the most showy, certainly one of the best hardy, deciduous flowering climbers for covering verandas, arbors, trunks of trees, old walls, etc. Vines should be moderately pruned and well trained so as to afford a good circulation of air, thus insuring more and better bloom. The flowers produced in clusters are trumpet shaped, two to three inches long and of orange red color. The foliage is very attractive and unusually free from insects. It not only is one of the best climbers, but planted on the lawn makes a pretty bush of drooping habit, if the tops are cut back. Sow seed in well prepared beds, either in autumn or very early in spring, in drills, and keep free from weeds. Hardy perennial, often growing thirty feet.Pkt. 10c.

BUTTERFLY FLOWER—(See *Schizanthus*)

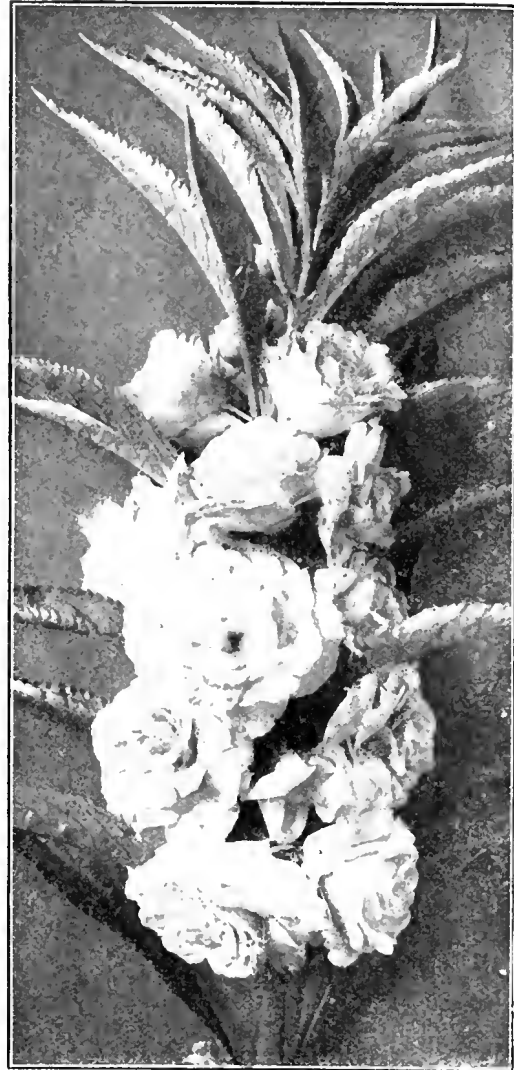
Calceolaria

A much admired genus distinguished by its abundance of large showy sac-shaped or slipper-like flowers which are creamy white and various shades of yellow, often splashed, spotted or blotched with dark reddish brown. Two plants rarely having flowers marked exactly alike. Leaves large, felty, close growing. Under proper conditions can be grown indoors to perfection, making an exceedingly decorative plant. Start at any time except during hot weather, in a temperature of about 60° F. Herbaceous annuals or shrubby evergreen perennials.

- Hybrida grandiflora.** Large self colored flowers.Pkt. 25c.
- Hybrida tigrina.** Flowers beautifully spotted. " 25c.
- Finest Hybrids Mixed.** Seeds saved only from the most perfect flowers; all desirable. " 25c.

CALENDULA—(See Marigold)

CALIFORNIA POPPY—(See *Eschscholtzia*)



BALSAM

Calliopsis, or Coreopsis Very showy plants for bedding or borders, producing in great profusion and for a long time flowers which are bright yellow and rich brown, either self colored or with these colors and red contrasted. Sow outdoors early in spring where the plants are wanted to bloom, covering seed one-half inch deep; thin to two feet apart. To secure an earlier bloom sow indoors and transplant. The tall, slender habit of growth makes neat staking desirable for best results.

Coreopsis tinctoria. A very hardy and easily grown annual, producing an abundance of brilliantly colored single ray flowers with dark center. The flowers, which are about one and one-half inches across, vary from clear yellow to deep rich brown, the two colors often being beautifully contrasted in the same blossom. Long, graceful stems and very desirable for decorative purposes. Two to three feet high. FINE MIXED. Oz. 20c.Pkt. 5c.

Lanceolata grandiflora. A very hardy perennial, blooming the first year and producing on very long stems a constant succession of rich bright yellow flowers two to three inches in diameter; exceedingly valuable for cutting and decorative purposes. Seed may also be sown in fall outdoors. About two feet high.Pkt. 10c.

CAMPANULA—(See *Canterbury Bell*)

Canary Bird Flower (*Tropaeolum canariense*) A beautiful climber with small, curiously shaped, canary colored blossoms and attractive palmate leaves. Sow outdoors early in spring, preferably in light, moderately rich soil by the side of an arbor or trellis. Will bloom freely from July until killed by frost. Tender annual; height about twenty feet. Oz. 35c.Pkt. 5c.

Canna Stately, very ornamental plants of semi-tropical appearance, very desirable for groups and in masses. Plants branching from the roots, with very large, broad leaves, producing clusters of large flowers of varied and brilliant colors from August until cut down by frost. Sow seed indoors in February in light, sandy soil, first cutting a small notch through the hard outer coat with a knife or file, care being taken not to cut into the germ. Cover with one-half inch of fine soil. Keep the soil moist and the temperature averaging 60° F. Transplant outdoors after danger of frost is over, preferably in very rich soil, giving each plant two feet of room. Tender annual in the open ground, or tender perennial in the greenhouse.

Finest Large Flowering Mixed. Plants comparatively dwarf, about three feet high. Oz. 30c.Pkt. 5c.



CALLIOPSIS (COREOPSIS TINCTORIA)

Candytuft (*Iberis*) Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries. If sown in spring in rich, mellow soil the plants will usually bloom from July to September or if in the fall will be likely to blossom from the last of May to July. Make the rows about one foot apart and cover the seeds with about one-fourth inch of fine soil firmly pressed down. When two inches high thin to four inches apart in the row. Larger flowers are obtained if some of the branches are removed, and an abundance of water is desirable. Hardy annual.

- Lilac. Shading to light purple. Oz. 20c.Pkt. 5c.
- White. Oz. 20c. " 5c.
- Rocket (*Giant Empress*) Extra large white trusses; much better than the common white variety. Oz. 30c.Pkt. 5c.
- Fragrant. Flowers white, fragrant; foliage finely cut. Oz. 20c.Pkt. 5c.
- Purple. A rich dark shade. Oz. 25c. " 5c.
- Rose Carmine. Compact habit. Oz. 25c. " 10c.
- Fine Mixed. Oz. 15c; Lb. \$1.00. " 5c.



CANTERBURY BELL

Canterbury Bell (*Campanula medium*) Handsome, easily grown herbaceous plants of stately branching growth and profuse bloom for beds and backgrounds. They produce long racemes of strikingly effective bell-shaped or saucer-shaped flowers of rich color. Usually grown as a hardy biennial, but if seed is sown very early indoors it may be treated as a tender annual. Sow seed outdoors early in spring in rows about two feet apart, covering with about one-fourth inch of fine soil firmly pressed down. The plants succeed best in light, rich soil with good drainage and in the fall should be transplanted or thinned to eighteen inches or two feet apart and given some protection in severe winter weather. Height of plants, from two to four feet.

- Double White.Pkt. 10c.
- " Blue. Shades of blue and purple. " 10c.
- " Mixed. Oz. 75c. " 5c.
- Single Mixed. Colors white, and various shades of violet, rose, lilac and blue. Oz. 25c.Pkt. 5c.
- Calycanthema Mixed. Large single flowers, white, lilac, rose and purple. Known as "Cup and Saucer" plant, the calyx forming a cup round the base of bell.Pkt. 10c.

CARPET OF SNOW—(See *Alyssum*)

Carnation

(*Dianthus Caryophyllus*) "Carnation," "Pink," "Clove Pink," "Florists' Pink," are names applied by different people to the same or to different plants of several species as well as to hybrids between them. They are all easily grown from seed and very free blooming, the flowers being bright colored and with a most delicious clove-like fragrance. Some varieties are best adapted for pot culture and make fine house plants; others do best in beds in the open ground. The improved varieties we offer are suitable also for cutting. They produce very double, semi-circular blooms with thick wax-like petals and long pod-like calyx. The plants are branching but compact and erect, with slender, bluish green foliage. The bursting of the calyx may be prevented by using ashes or some form of potash. Where size and quality of flowers are desired rather than profusion of bloom, all except the terminal buds should be removed. This is the method employed by florists to obtain the larger longer-stemmed beauties. Half hardy perennial, usually treated as a biennial.

Large Flowering Carnations Best Suited for Pot Culture

The choicest varieties sold by florists are propagated from cuttings but very beautiful double flowers just as good in form and more fragrant, although not as large, can be produced from the seed we offer. Sow under glass in the greenhouse or hothed from January to March. Use well prepared soil, cover lightly and keep in a temperature of about 60° F. Sprinkle with a fine spray. When of a sufficient size transplant out of doors two feet apart each way, or may be sown in permanent bed as early in spring as weather will permit.

Double Perpetual Flowered Mixed. An exceedingly beautiful variety producing very double flowers of various shades and colors. Plants closely branched and very symmetrical. Seed saved from choicest double flowers.....Pkt. 25c.

Fine Double Selves. Seeds from finest self-colored named varieties grown in the open ground; many beautiful shades... " 10c.

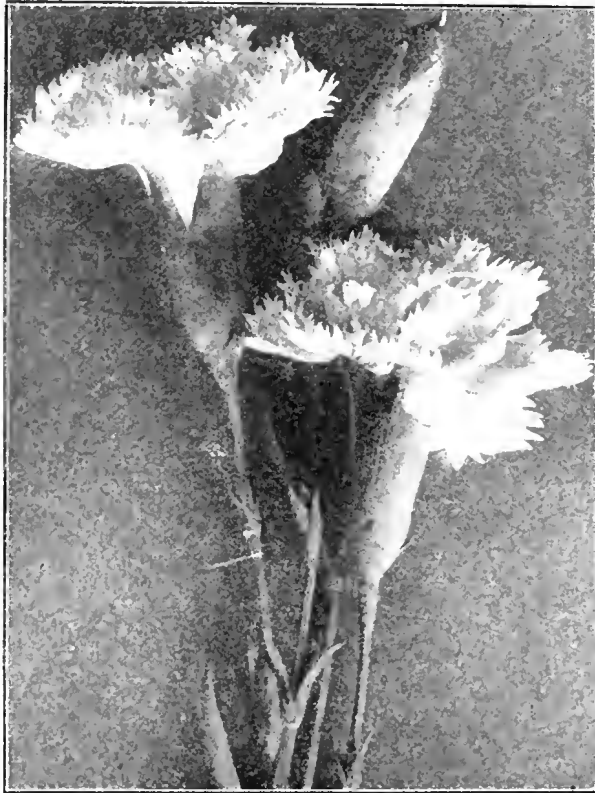
Fine Double Striped. Seed from fine named striped sorts... " 15c.

Choicest White Ground. Seed from choicest, large flowered, named varieties, with nearly white petals bordered or tinted with red or purple.....Pkt. 35c.

Extra Choice Double Mixed. Seed from choicest French, German, Italian and English named sorts. Certain to produce a large proportion of double and finely formed and colored flowers in a great variety of shades and markings. Oz. \$2.50.....Pkt. 15c.

Choice Double Mixed. A mixture containing many of the very choicest colors and types.....Pkt. 10c.

Picotee, Extra Fine Double Mixed. Extra fine seed from named varieties, petals bordered, spotted and splashed; sure to give flowers of splendid quality in good proportion.....Pkt. 25c.



CARNATION

Varieties Adapted to both Pot and Outdoor Culture

Seed may be sown outdoors early in spring, using well pulverized soil, preferably sandy loam. Make rows one foot apart and cover seed with one-fourth inch of fine soil firmly pressed down. When two inches high, thin to eight or ten inches apart. For earlier blooming start indoors. There are usually only a few flowers obtainable in the open ground the first year, but if the plants are protected through the winter they will bloom freely the second season. In southern latitudes seed may also be sown outdoors in fall. Half hardy perennials, fifteen inches high, except Marguerite which can be treated very successfully as an annual.

Early Double Snow White. A splendid sort for either pot culture or the garden. The plants are vigorous, erect and bushy; come into flower very early and furnish abundant bloom for a long time. The flowers are large, double, clear white and wonderfully fragrant.....Pkt. 25c.

Marguerite. The plants of this wonderfully fine strain may be made to bloom in four months. Flowers large, double, deeply fringed, very fragrant and appear in very attractive shades of color. Plants semi-dwarf. One of the best carnations in cultivation. Especially desirable for bedding as an annual and for cutting. Oz. \$1.50.....Pkt. 5c.

Double Dwarf Vienna Mixed. Large flowered and comes into bloom early, producing flowers of many colors and beautiful markings; a large proportion double. Oz. \$1.50.....Pkt. 10c.

Double Red Grenadin. Comes into bloom very early and the charming, double, scarlet flowers are very valuable for forming bouquets.....Pkt. 15c.

Castor Bean

(*Ricinus*) Tall majestic plants for lawns or drive-ways; with broad, beautifully lobed, palm-like leaves of glossy green, brown or bronzed metallic hue and long spikes of scarlet, or of green, prickly seed pods

Makes a rapid, vigorous growth in rich soil. Sow seed outdoors after danger from frost is over, preferably in light rich soil, or for earlier blooms start indoors and transplant. For best development each plant should have at least four feet each way. Its rich luxuriant growth makes it very attractive for a long distance either grown singly or in groups, or as center plants with *Cumias*, *Dahlias*, etc., giving a semi-tropical effect. Seed beautifully striped or mottled. Tender annual; six to fifteen feet high.

Zanzibariensis. Wonderfully vigorous, from ten to fifteen feet high. Leaves have a brilliant luster, measuring about thirty inches across, ranging in color from bright green to deep bronze. Seed very large, oval. MIXED VARIETIES. Oz. 20c.....Pkt. 5c.

Sanguineus. (*Tricolor*) Blood red stalks with red venation in leaves; height about six feet. Oz. 15c..... " 5c.

Castor Bean, Mixed. A desirable mixture of all the named varieties. Oz. 15c..... " 5c.

Celosia

An odd and picturesque class of plants having colored foliage and in which the innumerable small flowers and seed vessels together with their supports form a very brilliantly colored mass, sometimes gracefully arranged like plumes and sometimes more dense, being corrugated and frilled at the edge like a cock's comb. They form the gayest possible decoration in beds and borders, retaining their brilliant coloring often from midsummer until frost. The red *Cristata* sorts are sometimes cut before fully ripe and dried in the house for winter bouquets. Seed may be sown outdoors as early in spring as ground is warm and dry, using if possible light, rich, well pulverized soil, and giving plenty of moisture. For larger and more beautiful plumes start the seed very early indoors and transplant to place when weather is settled. Also adapted for growing in pots in greenhouse and conservatory. Half hardy annuals.

Pyramidalis plumosa mixed. Plants pyramidal, branching, two or more feet high, covered with long, brilliantly colored and gracefully formed plumes in red, yellow or violet. An excellent mixture of plumosa or feathered celosias.....Pkt. 5c.

Triumph of the Exposition. A splendid plumosa variety. Plant of pyramidal form, bearing many exceedingly graceful, feather-like spikes of intensely brilliant crimson color. Height two to three feet.....Pkt. 10c.

Variegated. A *cristata* strain between the plumosa and the dwarf cockscomb types. The plumes are broadened at the top, variegated and striped in red and yellow. Height one and one-half to two feet.....Pkt. 10c.

Japan. Plant grows two to two and one-half feet high and is covered with spikes which are finely crested and of brilliant colors usually variegated crimson and deep yellow. One of the best of the tall *cristata* types.....Pkt. 10c.

Dwarf Cockscomb Varieties (*Celosia Cristata*)

Giant Empress. This beautiful dwarf plant can bronze leaves and forms very large crimson combs. Height about one foot.....Pkt. 10c.

Dwarf Rose. One foot high; large rose-colored combs. " 10c.

Dwarf Yellow. Large yellow combs. Height one foot... " 10c.

Glasgow Prize. (*President Thiers*) Plant resembles a very large comb, densely corrugated; brilliant, deep purple red. Foliage dark, not abundant; ten to twelve inches....Pkt. 10c.

Dwarf Mixed. A mixture of the best dwarf growing sorts. Oz. \$1.75.....Pkt. 5c.

Centaurea

Centaureas embrace some foliage plants but are more generally known for their hardy flowering annuals which include some of our most graceful and showy garden flowers that have long been favorites for cutting. The tall slender straight or slightly branching plants with narrow leaves thrive well in common garden soil. They produce bright colored single and double heads of flowers on long graceful stems and some sorts are fragrant.

Annual Varieties Cultivated for Their Flowers

Sow seed in early spring in hotbed and transplant to open ground or sow in open ground as soon as the weather is warm and settled. Cover seed about one-fourth inch deep; thin three or four inches apart. Fine for bedding or borders. The young plants are very sensitive to wet, and care should be taken to prevent water standing on the leaves.

Cyanus. (*Bachelor's Button, Corn Flower*) A well known, hardy border plant, also called "blue bottle" and "ragged sailor," which does best in carefully prepared gravelly soil. If seed is sown as soon as the ground is fit in the spring and the flowers picked so as to prevent the plant exhausting itself by seeding, it will furnish a profusion of bright blue, purple, white or pink single flowers from July until late in the autumn. Hardy annual; plant one to two feet high. MIXED. Oz. 20c.....Pkt. 5c.

Double Mixed (*Bachelor's Button*) Produces larger, more globular flower-heads than the common variety. Oz. 20c.....Pkt. 5c.

Odorata (*Sweet Sultan*) An old fashioned hardy annual about eighteen inches high, with long-stemmed, sweet scented, light purple flowers.....Pkt. 10c.

Marguerite. A most desirable, sweet scented *Centaurea*, producing on long stems finely lacinated, white flowers, about as large as a carnation, and which remain fresh and beautiful for a long time after cutting. Hardy annual; about eighteen inches high. Oz. \$1.00.....Pkt. 5c.

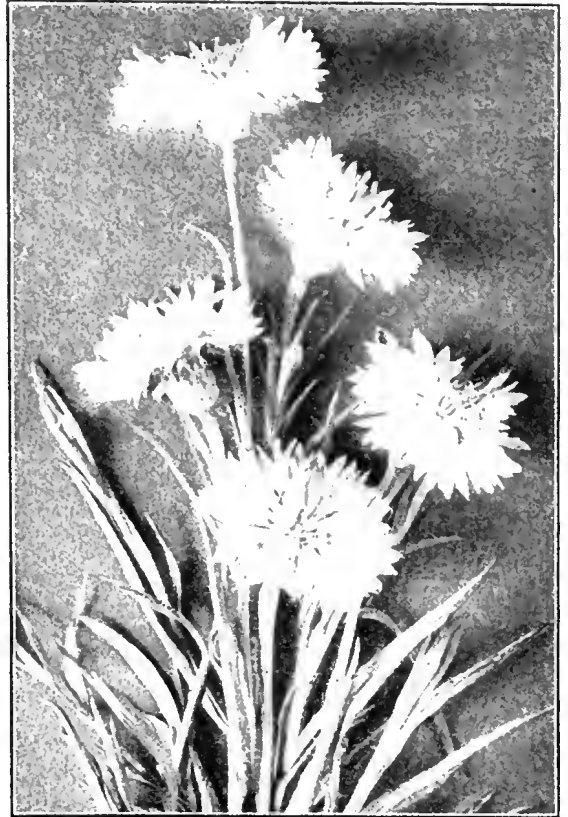
Imperialis Mixed. An excellent sweet scented variety, also called Sweet Sultan. The flowers are finely lacinated and are about the size of a carnation. They have long stems and keep well after cutting. Colors range through white, rose, lilac, purple and yellow. Hardy annual; about eighteen inches high. Oz. 75c.....Pkt. 10c.

Perennial Varieties Cultivated for Foliage

Seed should be sown under glass and the young plants grown in pots or boxes until settled warm weather, when they may be set about one foot apart where wanted for borders or bedding. In southern latitudes seed may also be sown outdoors in fall.

Candidissima. Sometimes called Dusty Miller. Ornamental plants of great beauty; foliage deeply cut, silvery white and densely covered with white hairs. Half hardy perennial, about one foot high.....Pkt. 10c.

Gymnocarpa. This is also called Dusty Miller. Valuable because of its finely cut silvery gray foliage and graceful drooping habit of growth. Half hardy perennial; one and one-half to two feet high. Oz. 65c.....Pkt. 10c.



CENTAUREA CYANUS (BACHELOR'S BUTTON)

Chrysanthemum

These outdoor "summer Chrysanthemums" are showy and effective for bedding or borders in the garden and desirable for cut flowers. Plants become more bushy and shapely if pinched back in early growth and the practice of disbudding will result in much larger flowers. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots.

Early Blooming Garden Sorts

Seed may be sown in the open ground after danger of frost is over and the seedlings thinned eight or ten inches apart, but the best results come from sowing under cover early in May, and transplanting the young plants to open border. Height one and one-half to two feet.

Morning Star. Very handsome, large, single flowers, bright yellow with deeper center; excellent for cutting and desirable for both spring and fall markets. Pkt. 10c.

Carinatum Eclipse. Pure golden yellow, with a bright purplish scarlet ring or center on the ray florets, the disc being dark brown; very striking.....Pkt. 5c.

Coronarum, double white. Very double white flowers, with petals reflexed and imbricated.....Pkt. 5c.

Coronarum, double yellow. Very attractive, rich golden yellow double flowers, about one inch across; abundantly produced.....Pkt. 5c.

Mixed. The choicest Carinatum and Coronarium varieties, both single and double.....Pkt. 5c.

Later and Taller Fall Blooming Sorts

This class is quite distinct from the early blooming garden sorts and in northern latitudes usually does not bloom the first year unless started indoors very early. In southern latitudes seed may be sown outdoors either in spring or fall. Height two to three feet.

Japonicum, fl. pl. The Japanese double sorts have very beautiful fringe-like flowers, usually combining white with tints of yellow and red. Well adapted to the southern states and under favorable conditions blooms freely in the North. Half hardy perennial.....Pkt. 25c.

Indicum, fl. pl. Very double India or Chinese sorts with incurved petals, mixed colors. Half hardy perennial; desirable as pot plant but sown more generally outdoors in the South, and succeeds well under favorable conditions in the North.....Pkt. 25c.

Superb Mixed. Seed from fine Chinese and Japanese double varieties; half hardy perennial.....Pkt. 25c.



CHRYSANTHEMUM, MORNING STAR

CHEIRANTHUS CHEIRI - (See *Wallflower*)
CHEIRANTHUS MARITIMUS - (See *Virginian Stock*)

Cineraria

Cinerarias are easily grown from seed in the greenhouse. The large heads of brilliant daisy-like flowers of many colors, usually sharply margined and with dark eye, are very desirable in pots. The plants are often as broad as high and the velvety leaves are shaded on the under side. Sow preferably early in fall. They thrive best in a mixture of loam and peat. Perennial, usually one to two feet high.

- Maritima candidissima** (*Dusty Miller*) Cultivated for its handsome, silvery white foliage; very ornamental as a decorative pot plant, or for bedding. Half hardy perennial, one to two feet high. Oz. 30c.....**Pkt. 10c.**
- Hybrida, choicest mixed.** Large flowering..... " **25c.**
- Hybrida, flore pleno, mixed.** The flowers are perfectly and evenly double and in great variety of colors**Pkt. 25c.**
- Hybrida, very dwarf, mixed.** Large flowered, eight inches high. Blooms profusely; many colors.....**Pkt. 25c.**

Clarkia Beautiful, hardy annuals with rose colored, white and purple flowers, in delicate but very brilliant shades. About one and one-half to two feet high and profuse bloomers. Sow early in spring. Double mixed.....**Pkt. 5c.**

Clematis

Well known beautiful climbers, much admired for their gracefulness and attractive flowers. Fine for covering arbors, verandas, etc., as they cling readily to almost any object. For best results start very early indoors and transplant to place one foot apart, or seed may be sown outdoors early in spring. Perennial, but some little protection in northern latitudes through winter is advised. The roots should be given plenty of water during dry weather to ensure free blooming, the plants being quickly injured if they become very dry.

- Flammula.** A slender but vigorous climber, from ten to fifteen feet high, with clusters of small, white, fragrant flowers in August and September. Known as Sweet Virgin's Bower. **Pkt. 5c.**
- Mixed.** Extra choice, large flowering varieties with beautiful clusters of purple and white flowers**Pkt. 10c.**

COCKSCOMB - (See *Celosia*)

COIX LACHRYMA - (See *Job's Tears*)

Cobaea Scandens

A fine rapid growing climber with handsome dark green foliage and bearing on graceful stems large, bell-shaped flowers, green at first but rapidly changing to a beautiful deep violet-blue. A wire-netting trellis or support for the green profusion of tendrils to fasten upon is preferable to cords or smooth wire. A well established plant will run about thirty feet in a season, covering a large veranda. For best results start indoors early in spring in rather dry soil and set out the young plants after danger of frost is past. Tender perennial. Oz. 50c.....**Pkt. 5c.**

Coleus

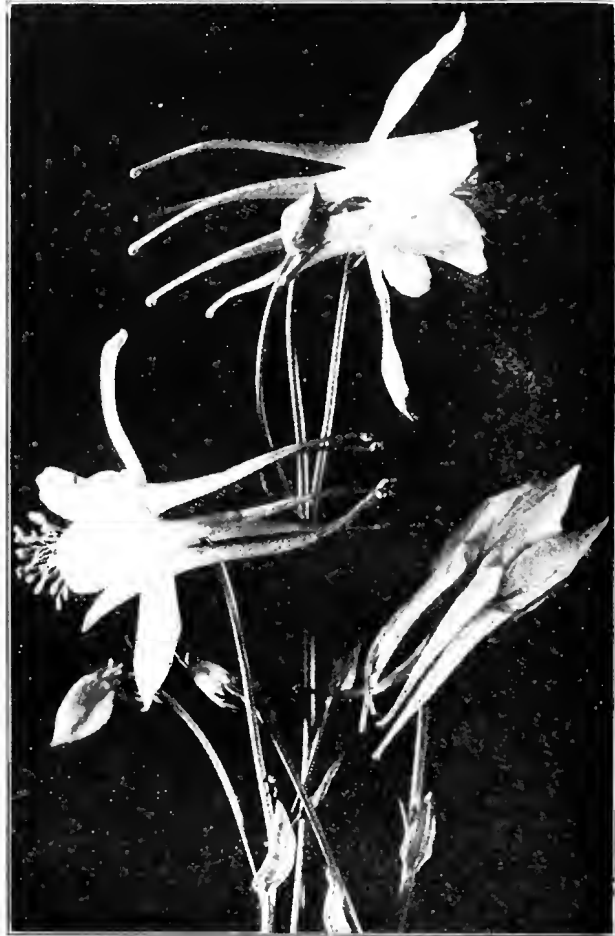
Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, shades and colors of remarkable beauty. Sow in shallow pots in rich light soil. Cover the seed lightly with earth and keep the plants in an even moist temperature. Transplant to the open ground in bed or border as soon as danger of frost is over, and in a sheltered situation where they will not be too much exposed to the sun. For house plants seed may be sown indoors in fall. Tender perennial; plants about one to two feet high.

- Finest Hybrids, Mixed.** Extra choice**Pkt. 25c.**
- Large Leaved, Mixed.** Rich, velvety leaves of large size. Plants of exceeding beauty.....**Pkt. 25c.**
- Large Leaved, Copper Colored.** Beautifully variegated in shades of rich red, bronze and copper color and quite distinct in appearance.....**Pkt. 25c.**

Columbine

(*Aquilegia*) Very desirable, easily grown, old fashioned perennials for borders, forming large, permanent clumps. Blooms profusely early in the season and remains in bloom for a considerable period. The peculiar pendant flowers are exquisitely formed, in various colors, often with long spurs. No bed of perennials should be considered complete without Columbines. Sow the seed which is of rather slow germination, in open ground early in spring in any rich, well drained garden soil. In permanent bed plants should have at least one foot each way. Keep clear of weeds and give each year a dressing of well rotted manure. Seed may also be sown outdoors in fall. Hardy herbaceous perennials; two to three feet high.

- Cerulea hybrida.** Vigorous growing, very handsome, with delicate blue and white flowers; spurs very long.....**Pkt. 10c.**
- Californica hybrida.** Hardy, free blooming, with single orange, red and yellow flowers. Oz. \$2.50.....**Pkt. 10c.**
- Mixed double.** Best and finest colors, including white, shades of blue and brownish purple. Oz. 30c.....**Pkt. 5c.**



COLUMBINE, CITRULEA

Convolvulus Minor

(*Dwarf Morning Glory*) Dwarf plants of trailing, branching habit, each covering a space about two feet in diameter. At midday they are completely covered with a mass of pure white and variously colored funnel-shaped blossoms which remain open in clear weather until evening. Sow the seed early in spring in any good garden soil, covering with about one-half inch of fine soil firmly pressed down. Half hardy annual; one foot high. Mixed. Oz. 10c; Lb. 50c.....**Pkt. 5c.**

CONVOLVULUS MAJOR - (See *Morning Glory*)

Cosmos

Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid growing annual, forming bush-like plants with feathery green foliage, four to six feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and are very useful for decorative purposes. Sow outdoors early in spring in rather light soil, not too rich, and preferably in a sunny situation. Cover the seed with one-fourth to one-half inch of fine soil firmly pressed down. If planted in rows, make the rows about two feet apart and when the young plants are well up thin from four to six inches apart in the row. (See colored plate, page 3)

- Hybrida, Giant White.** Oz. 40c.....**Pkt. 5c.**
- Hybrida, Giant Pink.** Oz. 40c..... " **5c.**
- Hybrida, Giant Mixed.** Flowers white and in shades of pink and scarlet. Oz. 30c.....**Pkt. 5c.**

Early Flowering Cosmos

- Early flowering strains, about four feet high, blooming profusely four to six weeks earlier than the giant sorts. Flowers of good size; well adapted to northern latitudes.
- Early Flowering Dawn.** Flowers white. Oz. 40c.....**Pkt. 5c.**
- Early Flowering Mixed.** Includes white, bright red and rose colored flowers. Oz. 30c.....**Pkt. 5c.**

CUCURBITA - (See *Gourd*)

Cyclamen

Well known and universally admired tuberos rooted pot plants producing exceedingly handsome red and white flowers for indoor winter or spring blooming in greenhouse or window garden. The graceful richly colored single flowers are of distinctive shape and are borne on stems of good length for a long blooming season well above the beautiful foliage. The glossy ovate or nearly round leaves are usually marbled or variegated with white. Sow the seed, which is of rather slow germination, in shallow boxes or pans, using light rich soil and cover the seed slightly. Keep at a temperature of 50° to 60° F. and water freely until well started. Seed sown in spring, in a three inch pot and later repotted as required in a five or six inch pot will produce blooms the following spring. Seed may also be sown in fall. Tender perennial; one foot high.

- Persicum, mixed.** Of great beauty and many colors...Pkt. 15c.
- Persicum giganteum, mixed.** Beautiful foliage and profuse bloom; each flower is two to two and one-half inches long. Very choice..... Pkt. 20c.

Cypress Vine

(Ipomoea quamoclit) A most beautiful rapid growing climber with delicate dark green, feathery foliage and many bright, star-shaped, scarlet or white blossoms which contrast most effectively with the graceful foliage. Planted by the side of veranda, tree or stakes, and trained properly, there is no handsomer climber. Seed is usually sown outdoors early in spring in the row where the plants are to remain. Cover seed one-half inch deep. Germination will be hastened if the soil is warm and kept in moist condition. Thin the young plants four to six inches apart. If very early blooming is desired, seed should be started indoors. Seed rather small, black, wedge-shaped. Tender annual; about fifteen feet high.

- Scarlet.** A very deep, rich shade. Oz. 25c.....Pkt. 5c.
- White.** Clear paper white. Oz. 25c..... " 5c.
- Mixed.** The two colors above. Oz. 25c..... " 5c.

Dahlia

A favorite for autumn flowering, blooming the first season from seed if started early. The flowers are so symmetrical and perfect and the range of colors so wide and varied that they will always be popular where display is wanted. Seed may be sown in spring in open ground after danger of frost is over, but for best results sow in shallow pans at any time from March to June, and transplant the seedlings to small pots. When strong enough and danger from frost is over plant out one foot apart. These plants will produce tubers which should be taken up in the fall and replanted the following spring; these roots will flower freely the following autumn. Tender herbaceous perennial, three to four feet high.

- Finest Double Mixed.** Seeds saved from choicest double flowers; shades of red, pink, dark maroon, yellow, white, etc...Pkt. 15c.
- Finest Single Mixed.** Will produce brilliant flowers running through a wide range of striking colors. Oz. 50c.....Pkt. 10c.

For Dahlia Roots see Bulbs and Roots, Page 93.

Daisy

(Bellis perennis) Charming little plants for edgings and borders, also used for low beds and rock work. The flowers of the improved varieties we offer are borne above the low cluster of leaves on stiff flower stalks, making them suitable for bouquets. With careful cultivation nearly seventy-five percent are double. For best results sow seed early in hotbed and when plants are large enough transplant to a rich soil in a cool and partially shaded situation, setting the plants six inches apart. If plants are started early indoors they will flower the same season, but bloom more abundantly in the spring if sown in autumn and the plants wintered over in cold frames; or can be set out in the open border and protected with mulching. Half hardy perennial; about six inches high.

- Double Rose.** *(Longfellow)* Finest strain. Oz. \$2.50...Pkt. 10c.
- Double White.** Very double, clear white. Oz. \$2.50... " 10c.
- Double Mixed.** Shades of rose and white. Oz. \$2.50... " 5c.

Datura

Large branching plants producing very large, handsome, double or single, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering. Seed may be sown outdoors after danger of frost is over, but for early blooming sow in hotbed and transplant about three feet apart each way. Roots can be kept all winter in cellars. Tender annual; three feet high.

- Wrighti.** Pure white at the center shaded into lilac and blue; magnificent large single flowers. In warm latitudes can be continued as a perennial. Oz. 25c.....Pkt. 5c.
- Chlorantha, fl. pl.** *(Humilis flava)* Large, usually double yellow, richly scented. Oz. 35c.....Pkt. 5c.
- Mixed.** The above varieties..... " 5c.

DELPHINIUM—(See Larkspur)

DIANTHUS—(See Pinks)

DIANTHUS BARBATUS—(See Sweet William)

DIANTHUS CARYOPHYLLUS (See Carnation)

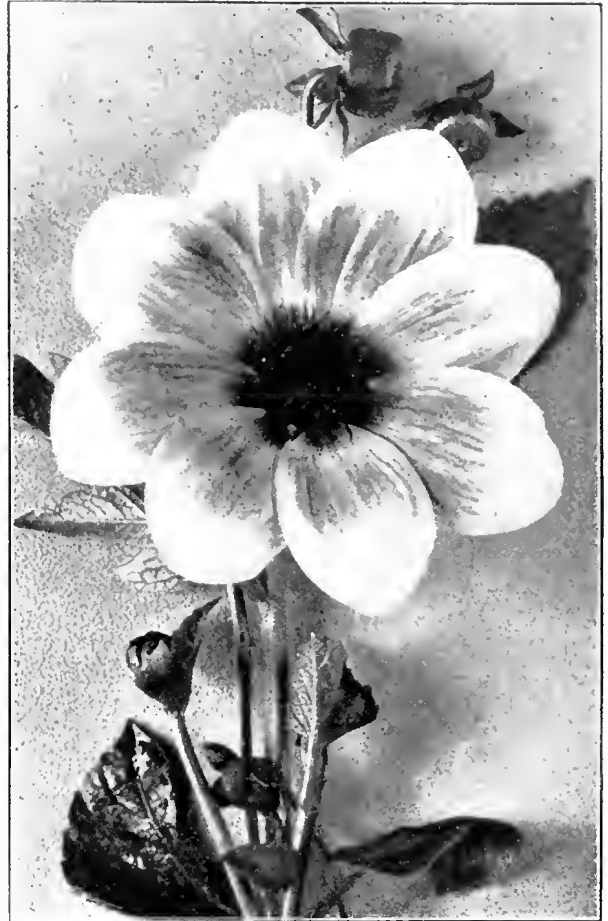
DIGITALIS—(See Foxglove)

Dimorphotheca Aurantiaca

This showy annual with bright orange-yellow flowers, is sometimes called African "Golden-Orange" Daisy. It is one of the most attractive of the easily grown plants of recent introduction. Plants somewhat spreading, with finely cut foliage, producing abundantly on stems of good length glossy single daisy-like blossoms about two and one-half inches across. The brilliant orange coloring of the petals contrasts strikingly with the black center which is surrounded by a dark colored disc. Well adapted for summer flowering in beds or borders. Sow early in spring, preferably in light, well prepared soil, not too rich, in a sunny situation. Make rows one and one-half feet apart, covering seed one-fourth inch deep; thin ten to twelve inches apart. Hardy annual, about one foot high. (See cut, page 2)...Pkt. 25c.

DOLICHOS—(See Hyacinth Bean)

EMERALD FEATHER—(See Asparagus Sprengeri)



DAHLIA, SINGLE

Eschscholtzia

(California Poppy) The state flower of California. It is fully as valuable as the common Poppy for garden ornamentation since it blooms through a much longer season. A bed in full bloom of these large saucer-shaped flowers in various shades of yellow with orange center gives a brilliant color effect. The foliage is finely cut and has a bluish tinge or bloom, delicate and very attractive. Sow seed early in spring or late in autumn where plants are wanted to bloom as they do not bear transplanting well. Use well pulverized soil, make the rows one foot apart and cover the seed one-fourth inch deep. Thin six to eight inches apart. Effective results are also obtained by thinly sowing broadcast and lightly raking in the seed. Hardy annual, low spreading; about one to one and one-half feet high.

- California.** Deep yellow, orange center. A desirable addition to every garden. Oz. 35c.....Pkt. 5c.
- California, Double White.** The flowers are creamy white; very attractive. Oz. 50c.....Pkt. 5c.
- Mandarin.** The outer side of the petal is tinged with scarlet, the inner side rich brownish orange.....Pkt. 5c.
- Mixed.** An excellent mixture producing deep yellow, creamy white, scarlet and orange flowers. Oz. 35c.....Pkt. 5c.
- Bush** *(Humboldtiana)* Flowers beautifully cup shaped, about three inches across; petals broad, bright yellow with wavy edges; leaves coarser and larger than common kinds. Stems ten inches long and desirable for cutting. In the northern states for early blooming and largest flowers start in pots and transplant outdoors. Height about two feet. Hardy annual, becoming in warm latitudes a tender perennial. Oz. 50c...Pkt. 5c.

Euphorbia Variegata

A showy foliage plant sometimes known as "Snow on the Mountain." The leaves are veined and margined with white. Sow seed in open ground early in spring in a sunny situation. For bedding and mixed borders. Hardy annual; about two feet high. Oz. 25c.....Pkt. 5c.

- EVENING GLORY—(See Ipomoea Bona Nox)

Feather Grass (*Stipa pennata*). An ornamental grass of much beauty, with delicate white feathery plumes, used in the formation of winter bouquets. The seed germinates slowly and for best results should be started early indoors, transplanting to the open after danger of frost is past. Hardy perennial; about two feet high.....Pkt. 5c.

Ferns Perennial flowerless plants, too well known to need description. The seed spores are very small and of slow germination but the exceeding grace and beauty of the plants will usually well repay all the care necessary to start them properly in the greenhouse or some place indoors where they will keep moist. The young ferns may be placed in a window box without much sun, or can be set outdoors in summer in some moist and shady place.

Fine Mixed.....Pkt. 20c. **Finest Species, Mixed**....Pkt. 25c. **FEVERFEW**—(See *Matricaria* and *Pyrethrum*)

Forget-Me-Not (*Myosotis*) A favorite old fashioned flower, bearing in profusion especially in fall and spring. clusters of dainty blue five-petaled blossoms. It thrives well in the shade or open border but flourishes best in a moist, shady situation. For bloom the first year sow indoors in February or March, and transplant as soon as the ground is warm enough, or sow outdoors as early as possible, covering seed one-half inch deep; thin to six inches apart. Seed may also be sown in fall. Hardy perennial but usually does better if given some protection during winter.

Alpestris. Plants of compact, bushy habit with finely cut foliage, growing six to eight inches high. Flowers blue with a very small yellowish eye. Oz. 50c.....Pkt. 5c.

Dissitiflora. Flowers deep blue, a little larger than Alpestris. Compact, early blooming; a good border plant.....Pkt. 15c.

Four O'Clock (*Marvel of Peru, Mirabilis Jalapa*) Large and beautiful, old fashioned plants of erect bushy habit which produce in profusion a succession of brilliantly colored tube-shaped flowers, that open about four o'clock in the afternoon, remain open all night and usually are closed before noon the next day. The flowers are red, white, yellow, or are striped and blotched in shades of these colors. Very desirable for borders, along a wire fence, or as the background of a flower garden, blooming during the late summer and autumn. Sow seed in spring in open ground after danger of frost is over, covering one-half inch deep. For best development allow two to three feet apart each way. Hardy annual, about two feet high.



FOXGLOVE



GAILLARDIA, PICTA

Red, Oz. 15c.....Pkt. 5c. **White**, Oz. 20c.....Pkt. 5c. **White, Red Striped**, Oz. 15c.....Pkt. 5c. **Mixed**, Oz. 20c.....Pkt. 5c.

Foxglove (*Digitalis*) Stately, old fashioned border plants, affording dense spikes of large brilliantly colored flowers which are terminal and half as long as the height of the plant. The flowers are very distinct and showy, being thimble like or long bell shaped, and the colors include white, lavender and rose, many being spotted or blotched. It is often used as a background, and does especially well in cool, shady locations in front of shrubbery. Seed may be sown outdoors after danger from frost is over, but for best results start in boxes and transplant. The seed is small and should be covered lightly and kept moist until plants are well established, when they should be transplanted to two feet apart. May be sown outdoors in fall. Hardy biennial or perennial, usually blooming the second season; three to five feet high.

Ivery's Spotted (*Maculata superba*) A fine variety of colors, usually spotted. Pkt. 5c. **Fine Mixed**. Many shades and markings. Oz. 25c.....Pkt. 5c.

Mammoth Foxglove (*Digitalis monstrosa*) Remarkably odd; each flower spike surmounted with a very large bell-shaped flower. **Mixed Colors**.....Pkt. 15c.

French Honeysuckle (*Hedysarum*) Very handsome, branching free flowering plants, producing racemes of beautiful small fragrant pea-shaped flowers; well adapted for borders or rock work. Sow in open border in spring after danger from frost is past, preferably in light and open well drained soil, in a sunny situation. Hardy perennial; often growing four feet. **Coronarium, Scarlet**.....Pkt. 5c. **Coronarium, Album, white**.....Pkt. 5c.

Fuchsia Known also as "Lady's Eardrops" from the bright colored pendulous double flowers with four parted, funnel shaped calyx. Plants with very beautiful blossoms may be grown from seed with proper care. Results are usually most satisfactory when grown indoors in pots in firm rich soil, but if seed is started early under glass, it often succeeds well in an outdoor window-box, or a shady situation in the garden. Tender perennial; one to two and one-half feet high. **Double, finest mixed**. Seed from finest named sorts.....Pkt. 25c.

Gaillardia Showy bedding and border plants, remarkable for the profusion, size and brilliancy of their flowers, blooming the first year and among the gayest ornaments of the garden in summer and autumn. Combinations of yellow and red predominate in the highly colored single and double flower-heads, two inches or more across, which are borne singly well above the foliage on long, slender stems, suitable for cutting. Sow seed outdoors early in spring; cover one-fourth inch deep. Make rows eighteen inches apart and thin eight to ten inches; or a longer season of bloom may be secured by planting in frames and transplanting. Plants one to one and one-half feet high.

Picta. Plants about one foot high; flowers single, crimson and yellow. Hardy annual; with root protection in winter is a perennial. Oz. 20c.....Pkt. 5c.

Picta Lorenziana. Gaily colored flowers, double with tubular florets, produced from July even until hard freezing weather. Invaluable for bouquets. Hardy annual; one to one and one-half feet high; with root protection in winter is often treated as a perennial. Sulphur, orange, claret and amaranth mixed.....Pkt. 5c.

Grandiflora. Flowers scarlet and orange, single, often three inches across with flat petals. Excellent for cutting. Hardy perennial, blooming the first year....Pkt. 5c.

Geranium

(*Pelargonium*) When properly grown, the constant succession of the flowers and the exquisite zone or horse shoe markings of the leaves of some of the varieties, render the Geranium very desirable for pot culture as well as for bedding out of doors and for growing in window boxes. The seed is slow to germinate. Sow in a pot or box in the house in rather light soil, preferably containing a little leaf mold and sand. Cover seed one-fourth inch deep, and keep as near 65° F. as possible. Water moderately, and as soon as the third leaf appears, pot singly in two inch pots, transferring to larger ones as the plants require. Plunge the pots or set in open border, and on approach of frost remove to cover. They will blossom the succeeding spring. Half hardy perennial; about two feet high.

Scarlet Mixed (Zonale) The seed we offer will produce a large percentage of double flowers in many beautiful shades of scarlet and red. Pkt. 25c.

GILLIFLOWER—(See Stock)

Gladiolus

These magnificent plants for bedding and cutting with their long spikes of tubular lily-form flowers can be raised from seed in nearly every conceivable color and shade, some being most beautifully striped and blotched. Sow the seed thickly, as soon as the ground is warm in the spring, covering one-fourth inch deep. The plants should have very careful attention and be kept entirely free from weeds. The bulbs which have formed should be taken up in the fall and kept dry during the winter. The stronger bulbs will flower the second season; the balance the third season. Tender perennial; about two and one-half feet high.

Finest Mixed. Finest named sorts mixed. Pkt. 15c.
For Gladiolus Bulbs see Bulbs and Roots, page 34.



GERANIUM

Globe Amaranth

(*Gomphrena globosa*) A desirable everlasting, valued for its handsome small, globular flower heads which, if cut when well matured, will retain their beauty through the winter. Seeds germinate slowly; start in hot-bed, or soak in warm water to soften the woolly husk. Set the plants one foot apart. Tender annual; twelve to eighteen inches high.

Purple. Pkt. 5c.
White. " 5c.

Striped. Pkt. 5c.
Mixed. Oz. 25c. " 5c.

GYNERIUM—(See Pampus Grass)

Gloxinia

Greenhouse perennial plants producing soft, velvety green leaves, and rich, beautifully colored trumpet-shaped flowers. Thrives best in an equal mixture of leaf mold, loam and sand. If started in February will usually bloom the latter part of summer. Seed may also be sown in fall. The plants are delicate and not easily grown, requiring much care, but the flowers are of such superb beauty that one generally feels amply repaid for the effort.

Hybrida, mixed. A strain of the richest color and variety of markings. Plants ten to twelve inches high. Pkt. 25c.

Gypsophila

Delicate, free-flowering plants covered with very small, star-shaped flowers, valuable for mist-like effects and as trimming in bouquets. Sometimes called Baby's Breath. Will thrive in almost any well prepared ground but does best on a limestone soil. Make handsome specimens dried.

Elegans Mixed. Very small, delicate white and rose-pink flowers; for hanging baskets or edgings. Hardy annual; one foot high. Pkt. 5c.

Muralis. One of the most charming and easily grown border plants having very small pink flowers. Hardy annual; about six inches high. Pkt. 5c.

HEDEYSARUM—(See French Honeysuckle)

HELIANthus—(See Sunflower)

Godetia

Attractive garden plants, sometimes included in the Evening Primrose or Oenothera family, and producing freely large,

widely opened single flowers, which are delicately shaded and of satiny texture. Flowers are scattered singly on the leafy branches or borne in short dense spikes. Suitable for pot culture as well as bedding and borders. Sow outdoors after danger of frost is past or for earlier blooming start indoors and transplant. Hardy annual; about one foot high.

Duchess of Albany. Large, rich, satiny-white flowers. Pkt. 5c.
Lady Albemarle. Carmine-erimson; compact habit. " 5c.

Gourd

(*Cucurbita*) A very extensive genus of trailing annuals with curiously shaped yellow fruit, commonly known as Ornamental Gourds. The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is quite ornamental, and the markings of some of the fruit extraordinary.

Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Tender annual; ten to twenty feet high.

Apple Shaped. Fruits are nearly round, yellow, sometimes striped. Oz. 25c. Pkt. 5c.

Bottle. Handsome, curious, bottle-shaped fruit. Oz. 25c. " 5c.

Corsican. Smooth, turban-shaped fruit. Oz. 25c. Pkt. 5c.

Dish Cloth. Long, green, corrugated fruit, the inside fibrous mass of which, when shell and seeds are removed, makes an excellent sponge. Oz. 25c. Pkt. 5c.

Hercules' Club. Distinctly club-shaped, the longest of all the varieties. Oz. 25c. Pkt. 5c.

Japanese Nest Egg. Used as nest eggs; fruits are white, do not crack and are not injured by heat or cold. Oz. 25c. Pkt. 5c.

Orange. Also known as Mock Orange. Nearly round, orange-colored. Oz. 25c. Pkt. 5c.

Pear Shaped, Ringed. This sort has green and yellow, exceedingly beautiful bicolored fruit, upper half yellow, lower half green. Oz. 25c. Pkt. 5c.

Pear Shaped, Striped. Fruits green, with cream colored striping, sometimes changing to yellow. Oz. 25c. Pkt. 5c.

Powder Horn. In the form of a powder horn. Oz. 25c. " 5c.

Siphon or Dipper. These gourds are useful for dippers; fruits long, bottle-shaped, with nearly straight or slightly crooked neck. Oz. 25c. Pkt. 5c.

Mixed. Oz. 20c. " 5c.

Helichrysum

(*Everlasting*) Sometimes called Straw Flower. Large full, double daisy-like flower heads with prominent centers and stiff overlapping scales, produced in various shades of bright yellow and scarlet on stems of good length. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in spring, in any good garden soil, and thin the plants to one foot apart each way. Hardy annual; two to two and one-half feet high.

Monstrosum, fl. pl., mixed. Largest double flowers. Oz. 40c. Pkt. 5c.

Heliotrope

Well-known and much admired border and bedding plants, highly valued for the blue color and fragrance of their branching clusters of small salver-shaped flowers as well as the duration of their bloom. Sow the seed early in spring, in mellow soil indoors, and when plants are one to two inches high, prick out into pots. Transplant to place when three to four inches high. Will live outdoors through the winter in a warm climate. Desirable also as a pot-plant for indoor blooming from fall sown seed. Half hardy perennial; blooming the first year from seed; one and one-half to two feet high.

Anna Turrell. Violet-blue. Pkt. 10c.

King of the Blacks. Splendid. " 10c.

Dark Varieties. Very choice mixed. Oz. \$1.25. " 10c.

HESPERIS MATRONALIS—(See Rocket)

Hibiscus Africanus

A vigorous branching plant, of easy culture, with pretty foliage and large, light yellow or cream-colored blossoms, dark purple in the center. The flowers are exceedingly showy, saucer-shaped, often two to three inches across; not of very long duration, but continue to bloom from early summer till October. The seed should be planted early, and the plants should be thinned to one foot apart each way. Hardy annual; about two feet high. Oz. 20c. Pkt. 5c.

Hollyhock

(*Alliaria rosea*) For a background to a flower garden nothing is better than the improved strains we offer of this tall old fashioned garden perennial. The large, richly colored blossoms, about three inches across, ranging from deep yellow and red to pure white, are set as rosettes around the strong growing flower stalks. Sow seed in June or July, in open ground, and in the autumn, when the plants have made five leaves, transplant to permanent position two to three feet apart. The following summer they will bloom. All double varieties are hardy perennials; five feet high.

- Early Flowering.** Blooms readily as an annual the first year from seed sown in spring. A wide range of colors in large single or semi-double flowers. **Pkt. 15c.**
Chater's Finest Mixed. Double perfection. " 15c.
Double Blood Red. Oz. \$1.25. **Pkt. 10c.** **Double Lemon Yellow.** Oz. \$1.25. " 10c.
 " **Deep Rose.** Oz. \$1.25. " 10c. " **Pink.** Oz. \$1.25. " 10c.
 " **Salmon.** Rich salmon color, suffused with pink. " 10c.
 " **Pure White.** Our special improved strain. Oz. \$1.50. " 10c.
 " **Choice Mixed.** All colors. Oz. \$1.00. " 10c.
 " **Mixed.** Oz. 75c. " 5c.

Humulus Japonicus

(*Japanese Hop*) Hardy annual climber fifteen to twenty feet high with rough lobed leaves, very rough leaf stems and small flowers. Desirable for covering unsightly objects or shading verandas. Oz. 35c. **Pkt. 5c.**

Hyacinth Bean

(*Dolichos lablab*) A fine climber with clusters of purple or white flowers followed by ornamental seed pods. Tender annual; from ten to fifteen feet high.

- Alba.** White. Oz. 15c. **Pkt. 5c.** **Purpurea.** Purple. Oz. 15c. **Pkt. 5c.**
Mixed. The above mixed. Oz. 15c. " 5c.
 IBERIS—(See *Candytuft*)

Ice Plant

(*Mesembryanthemum crystallinum*) A curious plant for hanging baskets, rock-work, vases and edgings; leaves and stems succulent, appearing as though covered with ice crystals. Tender annual trailer; six inches high. Oz. 25c. **Pkt. 5c.**

Ipomoea

Beautiful annual outdoor climber of luxuriant growth for covering verandas and arbors, or for screening unsightly objects. Sow preferably in heat and transplant to open border; or sow in open border after the ground becomes warm. Soak seed in luke-warm water before planting. Tender annual; ten to fifteen feet high.

- Setosa** (*Brazilian Morning Glory*) Very vigorous rapid growing vine with large, three-lobed leaves and stems covered with brown hair. Flowers open in morning; salver formed, delicate blue or reddish purple with pink star in center and produced in clusters. Seed black, a little larger than *Limbata*. Oz. 40c. **Pkt. 10c.**
Coccinea (*Star Ipomoea*) Like a *Morning Glory* but with smaller, rather pointed leaves, and covered with small scarlet, star-shaped flowers. Height often ten feet. Seed small, black. Oz. 20c. **Pkt. 5c.**
Bona Nox (*Evening Glory*) Violet blue flowers, open in the evening; similar to the white *Moon Flower* but not as large; seed as large but darker. Oz. 20c. **Pkt. 5c.**
Limbata mixed. Very large violet or blue flowers with white margins and throats. The leaves are similar to those of *Japanese Morning Glory* but are less variegated. Seed large, black. Oz. 20c. **Pkt. 5c.**
Fine mixed. The four above varieties mixed. Oz. 20c. " 5c.
Early Flowering Sky Blue (*Ipomoea grandiflora rubro carulea*) Early and very free flowering. Very desirable. (See further description, page 2)..... **Pkt. 15c.**
 IPOMOEA GRANDIFLORA—(See *Moon Flower*) IPOMOEA QUAMOCLIT—(See *Cypress Vine*)
 IPOMOEA PURPUREA—(See *Morning Glory*) IPOMOPSIS—(See *Tree Cypress*)
 JAPANESE HOP—(See *Humulus Japonicus*) JOSEPH'S COAT—(See *Amaranthus tricolor*)

Job's Tears

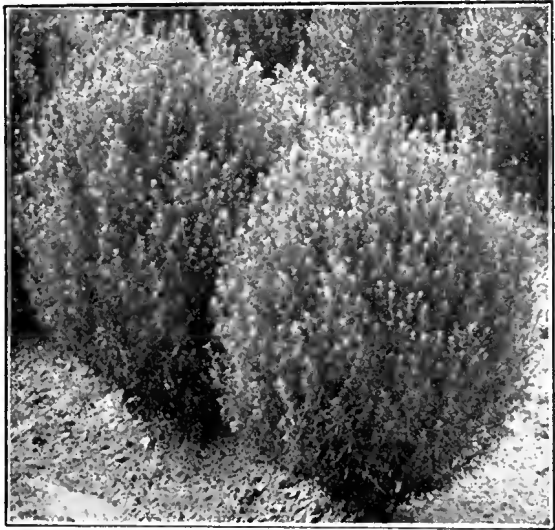
(*Coix lacryma*) Curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds used for beads. Valuable for winter bouquets with everlasting flowers. Plant outdoors early in spring in hills three feet apart, four or five seeds in a hill, and cover half an inch deep. Hardy annual; three feet high. Oz. 15c. **Pkt. 5c.**

Kochia Trichophylla

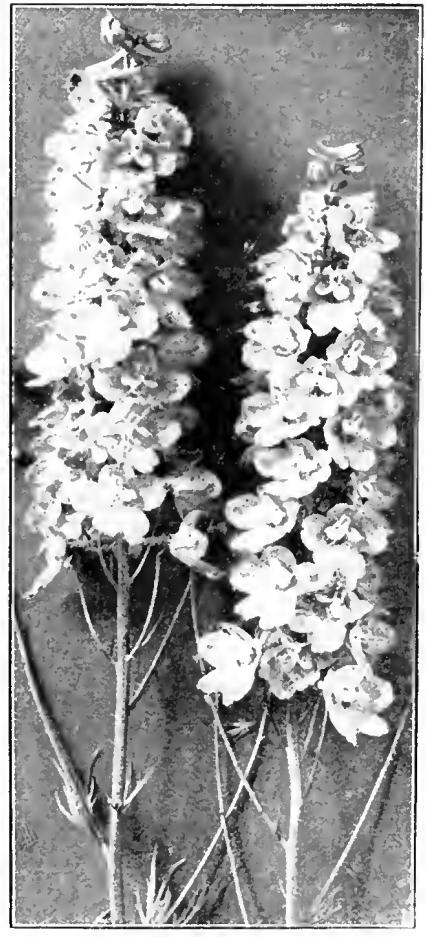
(*American Fire Bush, or Summer Cypress*) A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean, bright green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep. Make the rows two feet apart and thin eighteen inches apart. For earlier blooming start indoors and transplant to open ground. Hardy annual; about two and one-half feet high. Oz. 35c. **Pkt. 5c.**

Lantana

The plants form small shrubs, producing in late summer and autumn an abundance of heliotrope-like clusters of single, fragrant flowers that change color. Succeeded by green berries that turn to a deep blue. Start under glass and transplant when danger of frost is over. Tender perennial; about two feet high.



KOCHIA (MEXICAN FIRE BUSH)



LARKSPUR, FORMOSUM

- Finest French Hybrids mixed.** Oz. 30c. **Pkt. 5c.**

Larkspur

(*Delphinium*) The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs, is especially valuable for its shades of blue. The annual forms are very desirable for bedding and the perennials are strikingly effective as a background for borders and for planting among shrubbery. Seed of annual varieties may be sown outdoors early in spring. For earlier blooming start very early indoors or sow in fall. Thin one to one and one-half feet apart. The perennial sorts are sown in fall or early in spring.

Annual Varieties

- Double Dwarf Rocket mixed.** Beautiful spikes of double flowers in many shades. Hardy annual; one foot high. Oz. 25c. **Pkt. 5c.**
Cardiopetalum. Deep blue, heart-shaped, one foot high. " 5c.
Tall Stock Flowered, mixed (*Consolida fl. pl.*) Flowers double, borne on spikes about fifteen inches long. Colors rose, white and shades of blue. Hardy annual; two feet high. **Pkt. 5c.**
Double Emperor (*Imperial fl. pl.*) Compact and profuse bloomer having erect spikes of very double flowers. Hardy annual; one and one-half feet high. **Mixed Colors.** **Pkt. 5c.**

Perennial Varieties

- Elatum** (*Bee Larkspur*) Flowers intensely blue with hairy petals in the center giving them a fancied resemblance to a bee. Hardy perennial; three to five feet high. **Pkt. 5c.**
Formosum. Flowers large, deep blue, small white center. Hardy perennial; three to five feet high; long blooming season. Sometimes called Mexican Larkspur. **Pkt. 5c.**
 LATHYRUS LATIFOLIUS—(See *Peas, Everlasting*)
 LATHYRUS ODORATUS—(See *Sweet Peas*)

Linum Grandiflorum Rubrum (*Scarlet Flax*). An attractive free-flowering bedding plant with slender foliage and bearing on delicate stems clusters of glossy bright red single flowers, saucer-shaped, with black center. If sown in hotbed and transplanted into good, rich soil, one foot apart, the period of flowering will be much advanced but the seed can be sown in the open ground after the weather is warm. Hardy annual; about one and one-half feet high. Oz. 20c. Pkt. 5c.

Lobelia Charming plants, well adapted for bedding, pots or rockeries. It makes a neat edging for beds of white flowers and is very effective in masses, being completely covered with flowers for a long time. The flowers are usually blue with lighter center and are borne in neat clusters, each irregularly lobed flower being about five-eighths inch across. Seed may be sown in place after danger of frost is over; or start the plants in pots in greenhouse or hotbed, early in spring and transplant to border in May. Half hardy annual; usually about six inches high.

Emperor William. A very fine, compact variety with clear intense blue flowers. Oz. \$1.75. Pkt. 5c.
Queen of Whites. A neat little plant producing a profusion of pure white flowers; useful for borders. Pkt. 10c.
Crystal Palace. Most graceful and very desirable for borders, having bright deep blue flowers; very dark green foliage. Pkt. 5c.
Gracilis. The flowers are bright blue with small white centers, fine for baskets and vases, trailing gracefully and blooming profusely. Plants six inches high. Pkt. 5c.
Tenuior. Intensely blue flowers, decidedly larger than the other sorts and with unusually long stems. Very desirable for outdoor bedding and cutting. Plants upright growing, about one foot high. Pkt. 10c.

LONDON PRIDE—(See *Lychnis Chalcedonica*)

Love-in-a-Mist (*Nigella*). Also known as Lady-in-the-Green and as Devil-in-a-Bush, because the blossoms are partly concealed by the finely cut foliage. The large oddly shaped flowers are surrounded by a very dense fringe of mossy fibres. Both plant and flower are handsome and require but little care. Sow seed in spring in any good garden soil, or may be sown in fall. Hardy annual.

Damascena, fl. pl. Double blue flowers; one and one-half to two feet high. Oz. 20c. Pkt. 5c.

Lupin A very attractive free-flowering plant with long graceful terminal spikes of fragrant pea-shaped blossoms. Blooms early in the season and is desirable for cutting. Sow seed in place in spring and thin to one and one-half feet apart. Hardy annual; about three feet high.

Cruikshanki. Blossoms white, shaded with yellow, blue and purple. Oz. 20c. Pkt. 5c.

Lychnis The flowers of this desirable old-fashioned bedding and border plant are brilliantly colored and are borne in clusters. They continue fresh a long time. Sow seed in spring and transplant to place, preferably in a sunny situation. Hardy perennial, blooming the first year from seed started very early.

Chalcedonica. (*London Pride*) Very bright scarlet flowers produced in dense terminal clusters, about one and one-half to two inches across, the petals suggesting the Maltese cross. Plants about two feet high. Oz. 30c. Pkt. 5c.

MALCOMIA MARITIMA—(See *Virginian Stock*)

Marigold No flower garden seems complete without this fine old-fashioned garden plant with its brilliant displays of yellow and orange, both tall and dwarf sorts, and with finely cut or entire bright green foliage. The African (*Tagetes erecta*) varieties are tall, usually one and one-half to three feet, and are well adapted for large beds, backgrounds or mixed borders, while the French (*Tagetes patula*) are more dwarf and are often used for borders and pot culture as well as bedding. All of these varieties have finely cut foliage, while the Pot Marigold (*Calendula officinalis*) has entire leaves, somewhat clasping the rather hairy stems. For best results start the seed early indoors and transplant six inches apart as soon as danger from frost is over, but good blooms of all the varieties of Marigold are often successfully obtained from seed planted in the open ground after danger from frost is past. Make the rows one foot apart. Use well pulverized soil, preferably light sandy loam and cover the seed with about one-fourth inch of soil firmly pressed down. When about two inches high, thin six to twelve inches. Hardy annuals; in bloom till frost comes.

African Double Dwarf, Lemon Colored. Very early and a profuse bloomer of very compact habit. One of the best of this class. Comes true from seed; about eighteen inches high. Desirable for shrubby or mixed border. Pkt. 5c.

African Orange Quilled. A double variety with quilled petals; flowers showy, bloom very early and used for cutting. Plants rather dwarf, about fifteen inches high. Pkt. 5c.

African El Dorado, Double. Flowers about three inches in diameter, imbricated, extremely double and in tints of primrose, orange and gold. Two to three feet high. Oz. 40c. Pkt. 5c.

African Double Mixed. A tall mixture well adapted for large beds. About two feet high. Oz. 30c. Pkt. 5c.

French Double Dwarf, Gold Striped. Brown and golden yellow; very double. Valuable for bedding; one foot high. Pkt. 5c.



MARIGOLD, EL DORADO

French Legion of Honor. A single, dwarf, bushy variety, very desirable for borders. The plants bear rich golden yellow flowers with garnet blotches in center of each petal and are about one foot high. Oz. 30c. Pkt. 5c.

Tagetes Signata Pumila. A dwarf French sort with small, bright orange yellow flowers; excellent for borders or massing. About twelve inches high. Oz. 35c. Pkt. 5c.

Prince of Orange. (*Calendula officinalis fl. pl.*) This very distinct variety has large double, golden yellow flowers, the petals shaded dark orange; produced in great abundance. Height of plant about one foot. Oz. 25c. Pkt. 5c.

Meteor. (*Calendula officinalis fl. pl.*) Large beautifully imbricated, very double flowers; petals light yellow, delicately edged with orange. Desirable for beds, borders and backgrounds. Two feet high. Oz. 20c. Pkt. 5c.

MARVEL OF PERU—(See *Four O'Clock*)

MATHIOLA—(See *Stock*)

Matricaria *Eximia grandiflora, fl. pl.* (*Double Feverfew*) Beautiful small white button-like double flower-heads. Plants of bushy growth, with very finely cut dark green foliage; desirable for bedding. Start the seed very early indoors in shallow boxes; transplant when size permits to small pots or plant boxes, giving each seedling two to three inches of space and set out in the open ground after danger of frost is over. Where climate permits seed may also be sown in fall outdoors. Half hardy perennial, about two feet high. Pkt. 5c.

Maurandia Graceful slender climber with glossy ivy-shaped leaves. It produces an abundance of showy irregular trumpet-shaped flowers, one and one-half inches long, usually purplish blue, white or rose colored with lighter throat. Suitable for greenhouse and hanging baskets in the winter and very satisfactory outdoors especially if a small trellis is given as support. Seed should be started in hotbed or indoors and the young plants set out in open border after danger of frost is over. Tender perennial, blooming the first season; six to ten feet high.

Fine Mixed. Oz. \$1.50. Pkt. 10c.

MEXICAN FIRE BUSH—(See *Kochia*)

Mignonette

(*Reseda*). A well known hardy annual producing dense cone-shaped

flower-spikes, made up of thickly set flowerets of modest colors. It is often used for cutting to combine in bouquets with other more pretentious flowers lacking its delicate and pleasing fragrance. Seed is usually sown outdoors after danger of frost is over and if sown at intervals in spring and early summer a succession of bloom, under favorable conditions, is assured till frost. Well pulverized soil, preferably light sandy loam, should be used and the seed covered one-fourth inch deep. Make rows one foot apart, thin to six inches. For very early blooming, seed may be sown in the fall, or started indoors and transplanted. Thrives best in a cool temperature and is usually most fragrant in rather light soil. Hardy annual; one foot high.

- Golden Queen.** The flowers are golden yellow and very fragrant. Oz. 35c. Pkt. 5c.
- Victoria.** Dark red blossoms, very desirable. " 10c.
- Parson's White.** Flowers almost pure white, borne on spikes six inches to a foot in length. Pkt. 5c.
- Pyramidal Bouquet.** Forms a dense, short pyramid, with large spikes of light red flowers. Fine for pot culture and open border. Oz. 35c. Pkt. 5c.
- Ruby.** A dwarf, compact and vigorous plant producing magnificent coppery-red flower spikes. Oz. 50c. Pkt. 5c.
- Machet.** Of dwarf and vigorous growth, with numerous stout flower stalks, terminated by large spikes of red flowers. This is one of the very best for pot culture. Oz. 60c. Pkt. 5c.
- Improved Machet.** A highly developed strain; splendid, large, red flower spikes. Pkt. 5c.
- Reseda odorata grandiflora** (*Sweet*) Large flowered, very sweet; light yellowish white. Oz. 15c; 1 lb. 65c. Pkt. 5c.

Mimosa Pudica

(*Sensitive Plant*) A curious plant with globular heads of small pink flowers, chiefly valued because of the extreme irritability of its leaves which close and droop at the slightest touch, also in cloudy, damp weather and at night. Start in hotbed in pots, and transplant into a warm situation six inches apart. Tender annual; height one and one-half feet. Oz. 40c. Pkt. 5c.



MOON FLOWER

Mimulus

Strikingly handsome flowers of easy cultivation. Perennial in the greenhouse, annual in the open air. Start under glass in spring or fall in rich moist soil, mixed with sand, and in a somewhat shaded situation. Cover the seed lightly and keep well watered.

- Moschatus** (*Musk Plant*) An attractive trailer with bright green foliage and many small yellow flowers of musky odor. Desirable for hanging baskets and window gardens. Oz. \$2.00. Pkt. 5c.
- Cardinalis grandiflorus.** Dark red. " 10c.
- Punctatus** (*Monkey Flower*) Large curiously shaped yellow flowers, spotted with rich maroon like a leopard's skin. An effective pot-plant about eight inches high; blooms first year. Oz. \$1.75. Pkt. 5c.

Momordica

Gracefully climbing vines with small yellow blossoms, followed by fruits of curious shape. Foliage gracefully cut and although tender annuals, the vines run ten feet or more during the season. The seed is very hard and germination will be hastened if a notch is carefully cut through the shell before planting. For best results, sow indoors early in spring and transplant after danger of frost is over, or seed may be sown in place as soon as ground is warm and dry.

- Balsam Pear** (*Charantia*) The fruit is pear-shaped, green changing to bright red and has a warty skin; when ripe it bursts open and shows a brilliant interior of large carmine seeds. Pkt. 5c.
- Balsam Apple** (*Balsamina*) Like Balsam Pear but foliage smaller; fruit much smaller and nearly round, green striped when young becoming scarlet. Oz. 25c. Pkt. 5c.

Moon Flower

(*Ipomoea grandiflora alba*) One of the most vigorous summer climbers, followed by fruits of curious shape. Foliage favorable conditions thirty to forty feet in a single season and be covered evenings and cloudy days with very large, white trumpet-shaped flowers widely extended, often four inches across. Leaves large, frequently four to five inches across. The hard outer coat of the very large, light yellow seed should be cut through with a sharp knife, care being taken not to cut any deeper than the hard shell and the seed planted about one inch deep in moist soil in a box or pan and set in a warm place. If the soil be kept moist, germination will take place in about two weeks. After plants are up, plant outdoors in sunny situation when danger from frost is past. Known as *Ipomoea Noctiflora*. Tender annual. Oz. 65c. Pkt. 10c.

Morning Glory

(*Convolvulus major*, *Ipomoea purpurea*) A handsome showy climber of easy culture and suitable for covering arbors, windows, trellises, old stumps, etc., if support be given the vines. The flowers are most brilliant in the morning. Seed is usually sown outdoors early in spring in the row where the plants are to remain. Well pulverized soil should be used and the seed covered one-half inch deep; thin four to six inches apart. If very early blooming is desired, seed may be started indoors and transplanted. Give some support such as strings or cord to the vines as soon as they begin to run and they will often exceed ten feet in height before the season is over. Seed triangular, black, except white, which is light yellow. Hardy annual.

- Striped.** Pkt. 5c. **Purple.** Pkt. 5c.
- White.** " 5c. **Crimson.** " 5c.
- Blue.** A very attractive shade. " 5c. **Mixed.** Many shades from white to dark blue, red and striped. Oz. 10c; 1 lb. 50c. " 5c.
- Aurora.** Flowers decidedly larger and of heavier texture than those of the common Morning Glory; rich, deep blue shading to a white or rose-colored throat, or an exceedingly rich, dark carmine. Very free blooming. Oz. 40c. Pkt. 5c.
- Giant Japanese Mixed.** (*Imperial*) The flowers of this variety are of largest size, often three inches or more across; some are brilliant red or rich blue, others are equally brilliant, with broad margins of clear white; some are striped or dotted with blue or red on white or lemon yellow ground, others are clouded with blue and red. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Seed black, larger than other varieties of Morning Glory. Oz. 25c. Pkt. 5c.

Mourning Bride

(*Scabiosa* or *Sweet Scabious*) An old fashioned but most attractive flower. Its great abundance and long succession of richly colored, fragrant blossoms on long stems make it one of the most useful decorative plants of the garden. Desirable for cutting as well as for beds and borders. Flower heads about two inches across; flowerets double, surrounding the thimble-shaped cone, and giving a fancied resemblance to a pin cushion. Seed may be sown in place as soon as ground can be worked; or for earlier blooming sow in hotbed early in spring and transplant one and one-half feet apart. Hardy annual; about two to two and one-half feet high.

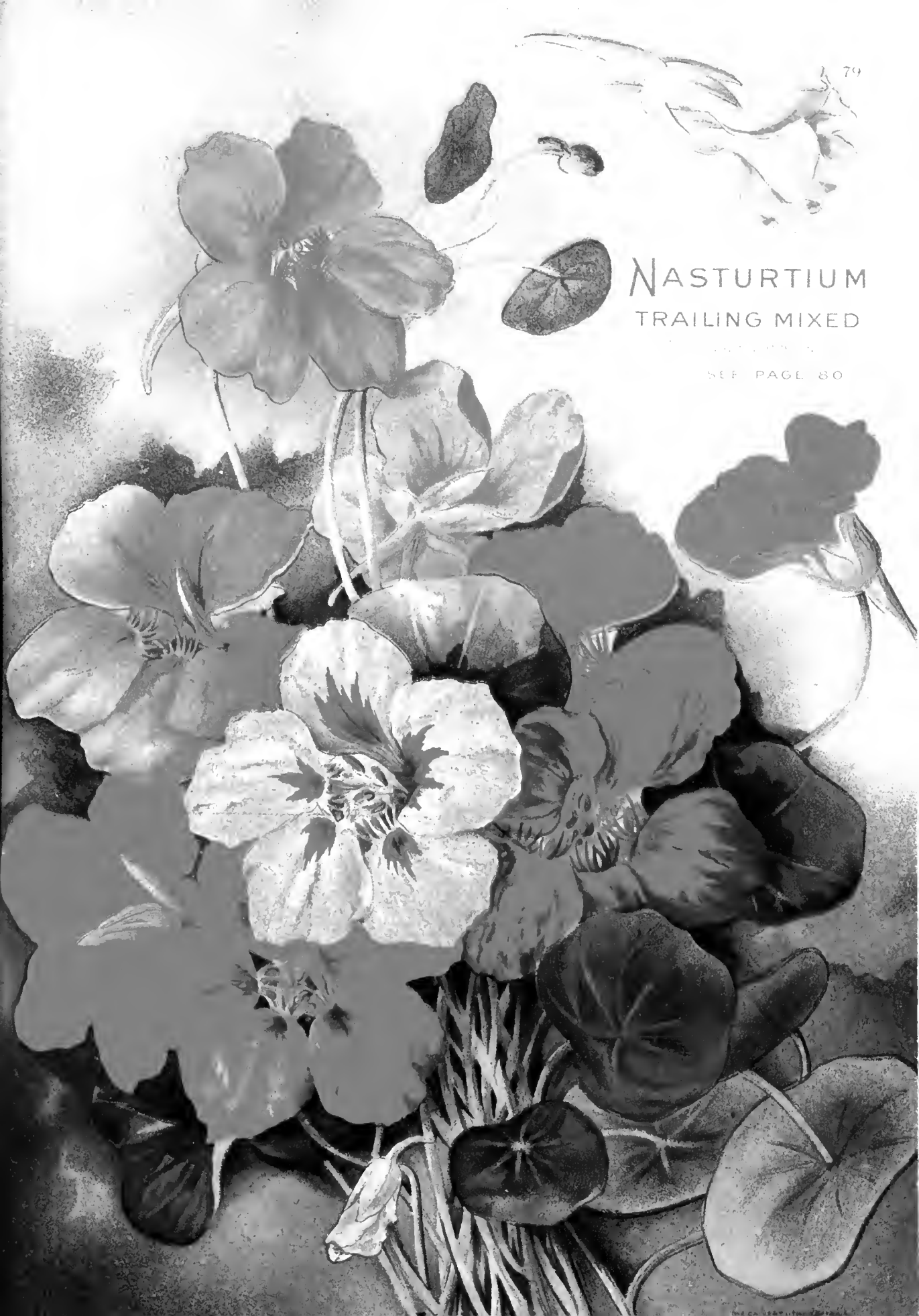
- Double Dark Maroon.** A beautiful and attractive shade. Oz. 20c. Pkt. 5c.
- Double White.** Especially desirable for mixed bouquets. Oz. 20c. " 5c.
- Double Mixed.** Colors include deep and light purple, scarlet, pure white and a dark mulberry red; some of the darker shades are tipped with white. Oz. 20c. " 5c.

MYRSIPHYLLUM - (*See Sulfax*)

NASTURTIUM

TRAILING MIXED

SEE PAGE 80



Nasturtium

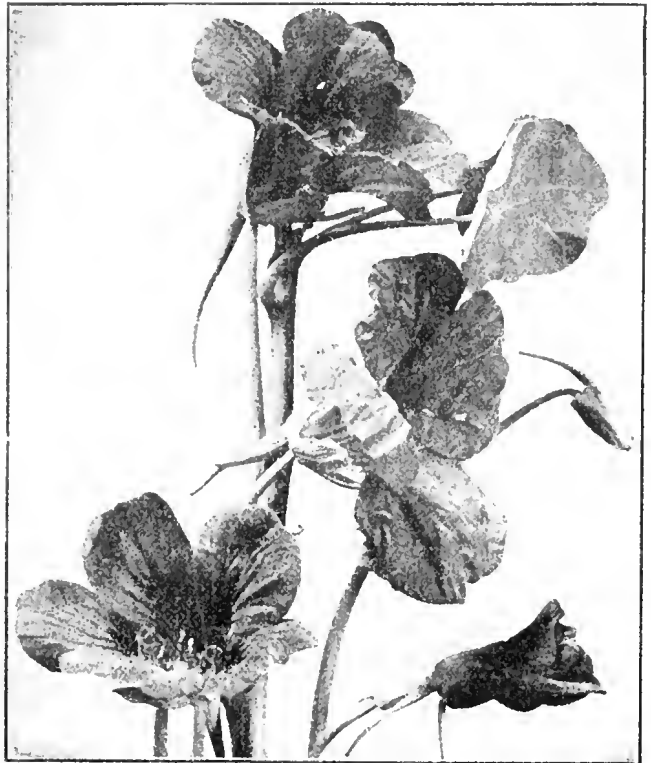
Few plants are more easily grown or remain longer in bloom than the *Tropaeolum*, with its large shield-shaped leaves and beautifully irregular flowers having long spurs and brilliantly colored petals. In favorable soil flowers are produced in abundance throughout the season. Seed is usually sown outdoors as soon as the weather is warm and settled, in the row where the plants are to remain. Well pulverized soil, preferably well drained and moderately rich, should be used and the seed covered with about one inch of fine soil firmly pressed down. A sunny situation is essential for free blooming. If the soil is very rich the plants give a large amount of foliage but few flowers. For earlier blooming, start indoors and transplant to the open ground after danger of frost is over. Much used for window boxes. Nasturtiums are usually free from insects of any kind.

Dwarf Varieties (*Tropaeolum minor*) The flowers are very brilliant and attractive. Plants evenly dwarf and are often used for a border. When about two inches high, thin so as to give each plant about one foot of room. Hardy annual; about one foot high.

- Aurora.** Light reddish-orange, veined with carmine. Oz. 15c.....Pkt. 5c.
- Bronze Colored.** Bronze-orange. Oz. 15c..... " 5c.
- Crimson.** Dark crimson. Oz. 15c..... " 5c.
- Empress of India.** Small, compact plant; deep scarlet flowers; very dark foliage. Oz. 15c..... " 5c.
- King Theodore.** Scarlet maroon or brown-red flowers. Oz. 15c..... " 5c.
- Pearl.** Pale yellow. Oz. 15c..... " 5c.
- Rose.** A warm rose-pink. Oz. 15c..... " 5c.
- Scarlet.** Scarlet-orange. Oz. 15c..... " 5c.
- Schilling's Striped.** Bright yellow, maroon blotches. Oz. 15c..... " 5c.
- Yellow.** Rich golden yellow. Oz. 15c..... " 5c.
- Mixed Dwarf.** Oz. 15c; ¼ Lb. 30c; Lb. 85c..... " 5c.

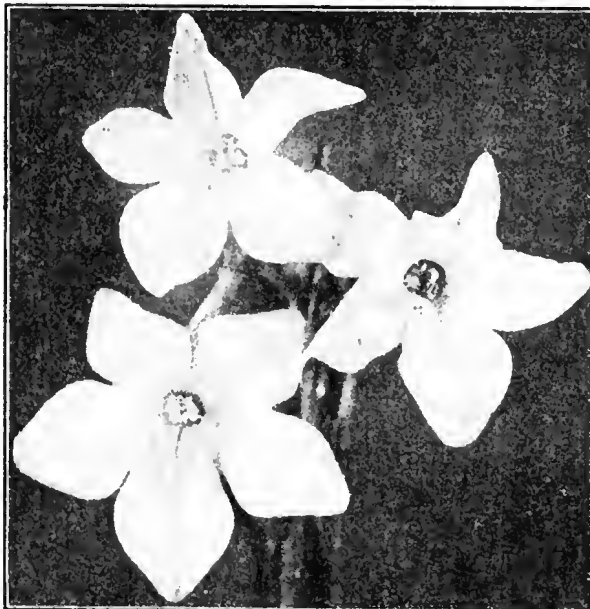
Trailing Varieties (*Tropaeolum Lobbianum*) The Lobbianum differs from the common tall, climbing or running nasturtium in being a little smaller in leaf, more compact in growth, more floriferous and having richer, more varied colored flowers. When about two inches high thin to six inches apart. Give some support to the vines as soon as they begin to run and they will usually grow six to eight feet during the season. Fine for covering arbors and trellises. Half hardy annual.

- Bright Yellow.** Yellow with carmine stain. Oz. 15c; ¼ Lb. 50c.....Pkt. 5c.
- Brilliant.** Intense scarlet-red, dark foliage. Oz. 20c; ¼ Lb. 50c..... " 5c.
- Chestnut Brown.** Rich red maroon. Oz. 15c..... " 5c.
- Giant of Battles.** Sulphur, red blotches. Oz. 20c..... " 5c.
- Hemisphericum.** Straw, blotched and suffused scarlet-orange; very large foliage, very strong growing, usually twelve to fifteen feet high. Oz. 15c; ¼ Lb. 40c..... " 5c.
- Jupiter.** Very large, deep golden-yellow flowers; very large foliage, very strong growing, usually twelve to fifteen feet high; free blooming. Oz. 15c; ¼ Lb. 40c.....Pkt. 5c.
- King of the Blacks.** Flowers of crimson-maroon, with darker markings. Oz. 20c; ¼ Lb. 50c.....Pkt. 5c.



NASTURTIUM

- Light Yellow.** Yellow with maroon stain. Oz. 20c; ¼ Lb. 50c.....Pkt. 5c.
- Queen Wilhelmina.** Foliage variegated, being marbled and veined with light green and white. Flowers rosy scarlet. Oz. 20c..... " 5c.
- Rose.** Bright, distinct and attractive. Oz. 20c; ¼ Lb. 50c..... " 5c.
- Spitfire.** Bright, fiery scarlet flowers; very floriferous. Oz. 15c; ¼ Lb. 50c..... " 5c.
- Mixed Trailing.** Lobbianum varieties. A wide range of colors and shades. Oz. 15c; ¼ Lb. 25c; Lb. 75c..... " 5c.
- Madame Gunter's Hybrid Nasturtiums** The flowers are striped or blotched with shades of red on yellow and orange ground, forming a combination of exceeding brilliancy and beauty. About four feet high. Half hardy annual. Oz. 15c; ¼ Lb. 40c..... " 5c.
- Chameleon Nasturtiums** Almost every shade of color and marking known to nasturtiums; continually changing from day to day. A very attractive strain.
- Dwarf Chameleon.** 1 Oz. 20c; ¼ Lb. 50c..... " 5c.
- Trailing Chameleon.** Oz. 15c; ¼ Lb. 40c..... " 5c.



NICOTIANA, AFFINIS

Nicotiana Handsome bedding plants of the tobacco family, valuable for long and free blooming. Flowers salver-shaped, with long tubular corollas. Seed may be sown outdoors when ground is warm and dry or for earlier blooming start in boxes indoors early in spring and transplant to open ground after danger of frost is past. Cover the fine seed with one-eighth inch of soil. Half hardy annuals; about three feet high.

- Affinis.** Flowers large, white and fully expanded only in evening or cloudy days. Very fragrant. Oz. 30c.....Pkt. 5c.
- Sandera, mixed.** Flowers white, carmine-rose or violet, a little smaller than Affinis and unlike it, in full bloom during the day. Very floriferous.Pkt. 10c.

NIGELLA—(See *Love-in-a-Mist*)
 CENOTHERA—(See *Primrose*)

Oxalis Very pretty, spreading herbaceous plants with clover-like leaves and richly colored blossoms. They thrive well in a mixture of loam and sand. Desirable for greenhouse decoration, rock work or baskets. Sow seed in gentle heat in early spring and when well started transplant where they are desired to flower. Half hardy perennial; six to nine inches high.

- Rosea.** Rose colored or light purple.....Pkt. 10c.

Pansies

Pansies are now produced in an almost infinite variety of colors and markings. Their brilliancy of shading, extended season of blooming and long keeping characteristics make them general favorites. The strains now offered are far superior to the old Heart's Ease or *Viola Tricolor* and the esteem in which they were held by older generations has been heightened by the greater variety and more brilliant colors of the improved sorts. We have been interested in the bringing forward of advanced types of very large varieties in this country as well as in Europe, and our stocks are the very best obtainable. We spare neither pains nor expense to satisfy the most critical trade. Every year we visit the gardens of the most expert specialists in Europe and are in position to give our customers the benefit of their knowledge.

We have annually both out of doors and under glass extensive trials of Pansies from the most successful European growers and from prominent seedsmen. While the variations in shades of color and markings appear almost limitless our list includes the very best strains the world produces.

Seed may be sown indoors very early in spring, or a little later in the open ground, and transplanted when an inch high. Such plants will commence to bloom in June. If sown in July, the plants will bloom in the fall, or if sown in September, the following spring. Well pulverized soil should be used and the seeds covered one-eighth to one-fourth inch deep with fine soil firmly pressed down. The largest and best flowers are produced by young plants which have been grown rather slowly in a partially shaded situation, and in very rich soil; coolness and moisture are necessary. A situation sheltered from high winds and exposed to the morning sun is most favorable and frequent sprinklings are advantageous. Grown indoors pansies make a good winter blooming pot plant. Hardy perennial, four to six inches high.

LARGE FLOWERING

- Gold Margined.** Large, well formed flowers; very rich dark red, bordered and tinged golden yellow. Oz. \$1.25.....Pkt. 10c.
- King of the Blacks.** Large velvety, pure black blossoms. This is probably the darkest flower grown. Oz. \$1.25..... " 10c.
- Meteor.** Flowers large, rich, velvety red or mahogany. Excellent for massing or edgings. Very hardy. Oz. \$1.50..... " 10c.
- Pure Yellow.** Brilliant, deep lemon yellow color, large flowering variety. Oz. \$1.50.....Pkt. 10c.
- Variiegated and Striped.** The flowers of this variety are beautifully striped in various colors, very rich and attractive. Oz. \$1.50.....Pkt. 10c.
- Violet White Edged.** Deep warm violet, edged white. Oz. \$1.25.....Pkt. 10c.
- White.** Flowers large and of fine form. An early, and very prolific strain. Oz. \$1.25.....Pkt. 10c.
- Choice Mixed.** Seeds saved from large flowering sorts. Oz. \$1.00.....Pkt. 5c.
- Collection of eight splendid varieties.....50c.**

GIANT FLOWERING

- Bugnot's Very Large Stained, mixed.** An exceptionally fine mixture of very large, blotched and stained flowers. Each petal distinctly blotched, and its margin usually veined. Sturdy plants. Many shades. ¼ Oz. \$1.25.....Pkt. 15c.
- Emperor William.** Deep lavender blue petals, dark Prussian blue about the eye; very large flowering. Oz. \$1.25.....Pkt. 10c.
- Ferry's Superbissima Blotched.** Very large flowers of exceptionally fine form and substance, usually ruffled and beautifully veined and blotched in all the finer and deeper shades and colors found in pansies. Plants very vigorous and floriferous. Superior to rather than simply different from old strains. When properly grown its faultless form and magnificent colorings never fail to delight those who appreciate these features. ¼ Oz. \$1.50.Pkt. 15c.
- Giant Blue Black.** Very large flowers; a rich velvety purple, almost black.....Pkt. 10c.
- Giant Flowering Parisian, mixed.** Flowers of largest size, splendid form and range of colors, as a rule in the lighter shades. Each petal usually beautifully blotched. Oz. \$2.00.....Pkt. 10c.
- Giant Trimardeau, mixed.** Our stock of this variety produces the largest pansies grown. Flowers of richest, most varied shades; generally marked with three large blotches. Plants very hardy and vigorous. We recommend this mixture as one sure to give general satisfaction where conditions are at all suitable for pansy growth. Oz. \$2.00....Pkt. 10c.
- Giant Yellow (Trimardeau)** Very large yellow flowers with large black centers.....Pkt. 15c.
- Lord Beaconsfield.** The lower petals are very deep violet-purple, shading in upper petals to white, slightly tinted with purple. The flowers are very large and finely formed. Oz. \$1.25.....Pkt. 10c.
- Odiel, or Very Large Stained, mixed.** Known also as Cassiers. Very large flowers, distinctly veined and each petal beautifully blotched. This is a very fine strain of pansies with wide range of splendid colors. Sturdy plants, very vigorous and floriferous. Oz. \$1.00.....Pkt. 15c.
- Extra Choice Mixed.** From best named flowers of very large size. Oz. \$1.50.....Pkt. 10c.



GIANT TRIMARDEAU

Pampas Grass (*Gynerium argenteum*) A very effective tall ornamental grass producing under proper conditions numerous flower stems surmounted by silvery plumes. It is a hardy perennial in the South; but a half hardy or tender perennial in the North, forming in sheltered spots, if well protected in winter, large thick tussocks which may attain a height of ten feet or more. Start seed in hotbed or greenhouse and transplant to light rich soil. A box well filled with dry leaves, hay or straw and inverted over the clumps late in fall is a means used to aid in wintering over.....Pkt. 5c.

Peas, Everlasting (*Lathyrus latifolius*) An easily grown, hardy perennial climber with smaller flowers lacking the fragrance of Sweet Peas, but producing for many weeks a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the second season but in the third and fourth, the plants then being well established, an abundance of foliage and blooms is afforded. The plants die down late in the fall and start again in the spring. Sow seed outdoors early in spring, using well prepared soil and covering the seed about one inch deep with fine soil firmly pressed down. Suitable for covering stumps and fences, and on a trellis will grow five to six feet.

Mixed. Includes white, rose and purple flowers. Oz. 25c.....Pkt. 5c.
 PELARGONIUM—(See *Geranium*)

Petunia

Petunias are unsurpassed for massing in beds and are often grown in window boxes. Their richness of color, duration of bloom and easy culture will always make them popular. They endure drought exceptionally well. The full, double petunias do not produce seeds. To procure double flowers one must use the seeds saved from single flowers which have been carefully fertilized by hand with pollen from the double ones. The seed we offer is the result of careful hybridization and can be depended upon to give as large a proportion of double flowers as any.

In some strains the flowers are very large, measuring four to five inches across; in others, they are deeply fringed; still others have star-like markings radiating from the throat and extending nearly or quite to the outer margin of the blossom; again, others have full, double flowers. The colors range from white to deep red purple and are variously striped and blotched.

Plant in a warm, open, sunny place. Seeds may be sown directly in the open ground; or for early results the plants may be started in a cold frame, hot bed or in pots indoors, in a temperature averaging sixty to seventy degrees. Water with a fine spray and do not permit the seedlings to dry out. The plants are tender and should not be trusted in the open until danger of frost is over. Any good, friable garden soil, well pulverized and in good condition may be used, and the seed covered with about one-eighth to one-fourth inch of fine soil firmly pressed down. The rows should be two feet apart. Thin to eighteen inch's apart. The plants begin to bloom when small and continue until cut off by frost. Tender perennial, blooming the first year; about one and one-half feet high.

Petunias are also sometimes grown under glass in winter. The best method is to sow seeds in late summer or early fall and grow stocky plants in pots, but old plants can be lifted on the approach of cold weather, cut back and taken inside for winter bloom.

- Single Dwarf Compact** (*Inimitable Dwarf*) Bushy plants only about eight inches high, covered with small flowers, generally striped or blotched. In many the markings are as beautifully star-shaped as in the strain offered as "Star" petunia.... Pkt. 15c.
- Countess of Ellesmere.** Flowers deep rose, white throat; very small..... " 5c.
- Nyctaginiflora.** Pure white flowers, very fragrant; a very floriferous variety..... " 5c.
- Finest Striped and Blotched.** Includes striped or blotched flowers in a wide range of colors. Oz. 90c..... " 5c.
- Fine Mixed.** An excellent variety of markings including white, stripes and shades of rose, red and purple. Oz. 50c..... " 5c.
- Double Mixed.** The seed we offer will produce a large percentage of double flowers in a good range of colors..... " 20c.

LARGE FLOWERING PETUNIAS

- Large Flowered Mixed.** Plants vigorous and flowers very large; some striped, others self colored. Oz. \$1.00..... Pkt. 10c.
- Fringed and Stained Mixed.** Very attractive, deeply fringed flowers in a variety of colors..... 20c.
- Superbissima Mixed.** Flowers of immense size, superbly colored with throats beautifully veined. We have carefully compared other strains sold as "Giants of California," etc., and have found none superior and many of them not equal to our strain of this magnificent variety.... Pkt. 25c.

Brilliant Rose. Large flowers of very bright, yet delicate and exceptionally attractive rose color. One of the finest varieties in cultivation and comes true from seed..... Pkt. 25c.

General Dodds. Large, single flowers of an exceedingly rich, dark purple color. A vigorous and very persistent bloomer and there are few garden plants that will make so satisfactory a display..... Pkt. 10c.

Grandiflora Robusta, fl. pl. Dwarf, of robust growth, forming a compact, upright, branched bush about ten inches in height and fourteen inches in width, with large flowers, many double and in all shades of colors existing in petunias. The latest of the varieties to bloom..... Pkt. 25c.

Double Fringed Brilliant Rose. Large, exceedingly double and fringed flowers of most brilliant rose color. Very desirable..... Pkt. 25c.

Extra Double Fringed. Many colors; flowers beautifully fringed. Pkt. 25c.

Pentstemon Handsome, half hardy, herbaceous perennials about two feet high and very desirable for bedding and borders. They usually bloom the first year, especially if started early. The flowers are bell-shaped or tubular, an inch and a half long, and are borne in racemes or spikes. The colors include white and various shades of rose and purplish red striped with white. Sow outdoors after danger of frost is past. It is well to use some mulching for protection through winter.

Mixed..... Pkt. 10c.

Peony (*Paeonia herbacea* *Chinensis*) Well known herbaceous perennial plants which may be grown either from seed or roots. The seed is of very slow growth, and germination may be hastened somewhat by cutting or filing carefully a notch through the shell of the seed, preferably on the rounding side. Rich, well prepared soil should be used and the seed covered one-half inch deep; keep well moistened and at a temperature of 50° to 60°. If the seed be sown in a cold frame in autumn, the plants will be large enough to transplant the following spring, and a year later will bloom. About three feet high.

Double Mixed..... Pkt. 25c.
(*Peony Roots are listed in our autumn Bulb Catalogue.*)



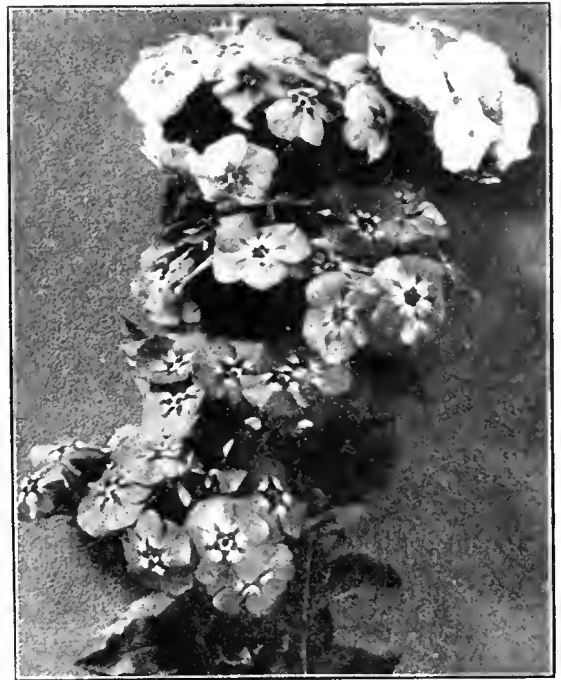
PETUNIA, EXTRA DOUBLE FRINGED

Phlox Drummondii (Large Flowering)

Unequaled in the magnificent display

of their many and brilliantly colored flowers. The plants are hardy bush-like annuals with many broad flat topped clusters of nearly round and star-shaped flowers. They are of easiest culture and bloom profusely through a long season. Especially attractive in masses or ribbon beds of contrasted colors; useful as window-garden plants and very desirable for combining in mixed bouquets. Seed is usually sown very early in spring outdoors in rows one foot apart. A sunny situation is desirable. Well pulverized soil, preferably rich and mellow, should be used and the seed, which germinates rather slowly, covered with about one-fourth inch of fine soil firmly pressed down. Thin to four inches apart. For very early blooming, seed may be sown outdoors in fall, or started indoors and transplanted early in April. Seed may also be sown outdoors in fall. Hardy annual; one foot high.

| | |
|--|-----------|
| Alba. Pure white, very desirable. Oz. 90c..... | Pkt. 10c. |
| Black Warrior. Very deep maroon. Oz. 90c..... | " 10c. |
| Isabellina. Creamy yellow. Oz. 90c..... | " 10c. |
| Kermesina Alba Oculata. Rosy crimson, white eye. Oz. 90c..... | " 10c. |
| Lilac. With white center. Oz. 90c..... | " 10c. |
| Rosea. Rose, with distinct eye. Oz. 90c..... | " 10c. |
| Rosy Chamois. Deep salmon rose. Oz. 90c..... | " 10c. |
| Scarlet. Maroon center. Oz. 90c..... | " 10c. |
| Splendens. Crimson, pure white eye; one of the finest of this strain. Oz. 90c..... | " 10c. |
| Violet. Deep violet blue, white eye. Oz. 90c..... | " 10c. |
| Extra Choicest Mixed. Best large flowered varieties. Our mixture is unequalled for profusion of bloom and wide range of brilliant colors. Oz. 75c..... | " 5c. |



PHLOX DRUMMONDII

Pinks

(*Dianthus*) The *Dianthus* family furnishes many of the most beautiful and profitable flowers including the Carnation, Sweet William, Chinese and Japanese Pinks, in all their varieties. The Pinks are old-fashioned favorites

and as a class are more varied in color than the Carnations but lack their fragrance. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliant colored flowers, often one and one-half to two inches across, contrast vividly with the rather narrow bright light green leaves. Seed may be sown in the open ground in spring after danger of frost is past, in the place where the plants are wanted to bloom. Use well pulverized soil, preferably sandy loam. Make the rows one foot to fifteen inches apart and cover the seed with one-fourth inch of fine soil firmly pressed down. When two inches high, thin to six to eight inches apart. Earlier blooming is obtained, in the north, if plants are started in the house. Plants compact, bushy, usually about one foot high. Where climate permits they may be treated as perennials, but practically are hardy annuals. When grown however for spring blooming, if in a well drained situation and protected by a light mulch of straw, cut fodder or leaves, the plants are less likely to winter kill than if in a moist unprotected part of the garden during the colder months. The plants thus wintered over will produce more and better blooms than those of the first season.

| | |
|---|-----------|
| Crimson Belle. Rich, vivid crimson color; flower single, of large size and splendid substance, evenly and finely lacinated. | Pkt. 10c. |
| Eastern Queen. Single flowers beautifully marbled and striped with light shades of red upon lighter ground. Border of petals finely cut or lacinated. | Pkt. 10c. |
| Royal Pinks. (<i>Heddewigii nobilis</i>) These very large, single flowers afford a wide range of colors. Petals deeply cut and fringed and in splendid shades from blood-red to carmine, pink and even white. Plants dwarf, very free flowering. | Pkt. 10c. |
| Heddewig's Single Mixed. A splendid mixture of single flowers of the best shades and beautifully marked. The plants are of dwarf habit of growth and are very free flowering. Oz. 50c..... | Pkt. 5c. |
| Double Brilliant Maroon. A beautiful variety easily cultivated; its rich, deep red flowers are very attractive. | " 10c. |



PINKS

| | |
|--|-----------|
| Double Dark Purple. An attractive and particularly useful color in pinks. The flowers are double, of large size, fine form and are suitable for cutting. | Pkt. 15c. |
| Double Diadem Mixed. (<i>Heddewig's</i>) Very regular, double, and all tints from crimson purple to deep black purple. Oz. 90c..... | Pkt. 5c. |
| Double Japan Mixed. (<i>Chinensis laciniatus</i>) The flowers are rich in hue; very double deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Oz. 80c.... | Pkt. 5c. |
| Double China Mixed. (<i>Chinensis</i>) White and dark crimson selves, also white tipped light purple and shades of red with darker blotchings. A mixture of double pinks unsurpassed in variety of brilliant coloring and marking. Oz. 30c..... | Pkt. 5c. |
| Snowdrift. Clear white, double and fully as large as the popular Marguerite Carnation; desirable for cutting. | Pkt. 15c. |

Platycodon Japonicus fl. pl. (Japanese Bell Flower)

Superior to the ordinary varieties; flowers double instead of single and the ten petals, in color an attractive deep blue, are bell-shaped and about two inches across. Plant of strong, bushy growth, forming large clumps. Sow early in spring, preferably in medium sandy, well drained loam. Make the rows fifteen inches apart; thin to eight inches apart. It is well to keep the stems tied up during the first season. Hardy perennial blooming the first season if started indoors; one to two feet high.

Pkt. 10c.

Poppy

(*Papaver*) These well-known hardy annuals and perennials flower in great profusion throughout the summer. Both the single and double varieties are very desirable for bedding and borders. The flowers are remarkable for their large size, delicacy of tissue and wide range of bright dazzling colors. As early in spring as ground can be worked sow seed where flowers are to bloom as the annual varieties do not bear transplanting. Pulverized soil, preferably light sandy loam, should be used. Make rows fifteen inches apart and cover seed one-fourth inch deep. When two inches high, thin from six inches to one foot. To insure continuous bloom during a long season the flowers should be cut regularly and no seed pods allowed to form.

Annual Varieties

- Shirley.** A magnificent variety, producing through a long season large single flowers of charmingly delicate colors, ranging from pure white through shades of pink and rose to the brightest scarlet and carmine-red. Some of the petals are of silky texture, others look like tissue paper, some are plain, some are crimped and some wavy. If cut before the blooms are fully expanded, they will keep fresh in water for several days. Hardy annual, about twenty inches high. Oz. 35c.Pkt. 5c.
- Tulip Flowered.** Single bright scarlet tulip-shaped flowers, a black spot appearing at the base of each petal. Hardy annual, about one foot high. Oz. 60c.Pkt. 5c.
- Umbrosium.** Very rich vermilion; a most showy single variety; hardy annual, about two feet high.Pkt. 5c.
- Cardinal.** Flowers very large and very double, each petal being so finely cut as to give the blossom the appearance of a large ball of brilliant cardinal colored silk. One of the finest poppies in cultivation. Hardy annual, two feet high. Oz. 25c.Pkt. 5c.
- Double White Fringed.** The finest double white poppy. Plant upright growing and floriferous. Flowers three to four inches across, perfectly double, finely fringed and of purest white. Hardy annual, about two feet high. Oz. 25c.Pkt. 5c.
- Carnation, Double White.** Pure white, double showy flowers, beautifully fringed. Oz. 15c.Pkt. 5c.
- Carnation, Double Mixed.** Large showy double fringed flowers of various colors; hardy annual, about two feet high. Oz. 15c.Pkt. 5c.
- Double Choice Mixed.** Very large, double poppies in a variety of colors. Some petals quite broad, others finely fringed. About two feet high. Oz. 20c.Pkt. 5c.

Perennial Varieties

Perennial poppies do best in rows one and one-half feet apart and one foot apart in the row. Seed may be sown outdoors either in spring or fall.

- Bracteatum.** Flowers very large, single brilliant orange-crimson; base of petals bluish black. A garden perennial of most striking appearance; about two feet high.Pkt. 5c.
- Oriente.** Very large single gorgeous scarlet blossoms; base of petals bluish black. One of the most showy garden perennials; about two feet high.Pkt. 5c.
- The **Carnation Poppy** is an improved double form of the single *Papaver Somniferum*, used for the extraction of opium. We do not furnish seed of the opium poppy.

Portulaca

Sometimes called Rose Moss. Few flowers make such a dazzling display of color in the bright sunshine as a bed of portulacae. The glossy cup-shaped single flowers and rose-like double flowers, about one inch across, range through many shades of red, white, pink, orange, yellow, striped, etc. Plants low growing or creeping with thick, fleshy stems tinged with red and small quill-shaped leaves. Desirable also for edgings. They are in bloom through a long season. Sow seed outdoors, after weather is warm and settled, where the plants are to stand in rows one foot apart. They should have a sunny situation. Well pulverized soil should be used but it does not need to be rich. Cover seed about one-eighth inch deep. Thin to two inches apart. For massed beds seed can be sown broadcast, the soil sifted on and the whole bed carefully pressed with a board. For earliest blooming start under glass and transplant to place after danger of killing frost is over. Tender annual; about nine inches high.

Single Varieties

- Alba.** Pure white. Oz. 40c.Pkt. 5c.
- Aurea.** Deep golden. Oz. 40c." 5c.
- Fine Mixed.** A wide range of colors. Oz. 35c." 5c.

Double Varieties

- The seed we offer can be depended upon for a large proportion of fine, very double flowers and the few that come single can be pulled out if desired.
- Double White**Pkt. 10c.
- " **Scarlet.** Very bright and attractive." 10c.
- " **Orange.** " 10c.
- " **Mixed.** Many beautiful shades. Oz. \$2.75." 10c.

POOR MAN'S ORCHID—(See *Sechisanthus*)



POPPY, BRACTEATUM

Primrose, Evening (*Oenothera*) Large, showy saucer-shaped blossoms, usually fully expanded only towards and during evening. The blossoms are yellow or white and are very freely and constantly produced.

Acaulis Alba (*Low White Evening*) Plants of prostrate habit, the leaves lying on the ground. This variety produces an abundance of large flowers about three inches across which open clear white and turn to deep primrose pink. Sow in open ground early in spring. Make rows fifteen inches apart; thin six inches apart in row. Hardy perennial; six inches high.Pkt. 5c.

Lamarckiana. (*Showy Evening*) Superb spikes of large, bright yellow blossoms about three inches across. Sow in open ground early in spring, or if blooms are wanted the first season, start very early in hotbed and transplant. For best development make rows two and one-half feet apart and thin fifteen inches apart in the row. Hardy perennial but blooms the first year; height four feet. Oz. 20c.Pkt. 5c.

Primula Sinensis

(Chinese Primrose) This beautiful winter blooming pot plant is especially valuable in that its brightly colored and finely formed flowers and prettily cut foliage may be had in perfection from November until late in spring. The splendid saucer-formed flowers are produced in large clusters. Sow the seed indoors in well drained, shallow pans or boxes from April to the last of July, to insure flowering the following winter. For best results use finely sifted leaf mold, loam and sand in equal parts. Cover slightly and place the pans in a temperature of about 60° F. Water with a fine spray. If covered too deeply or if allowed to dry after being wet the seed will not germinate. Transplant into pots and keep in a cool place so that the plants will grow slowly until ready to bloom. Seed may also be sown in fall. Greenhouse perennial, six to ten inches high.

- Single Fringed, Scarlet.** A deep shade; very attractive. Pkt. 25c.
- " **Choicest Mixed.** ¼ Oz. \$2.50." 25c.
- " **Choicest Fern Leaved, mixed.**" 25c.

Double Fringed, mixed. A very choice mixture including flowers in shades of red, rose, white, etc. The seed we offer can be depended on to produce a very large proportion of double flowers.Pkt. 25c.

Pyrethrum

Very ornamental, both foliage and flowers. Well adapted for bedding and borders. Sow outdoors in spring as soon as ground can be worked, or for best results start the seed indoors and transplant after danger from frost is past. (See also *Matricaria*)

- Parthenifolium Aureum** (*Golden Feather*) Beautiful dwarf gold leaved bedding plant. Flowers white. Half hardy perennial, often treated as an annual; height one foot. Oz. 50c. Pkt. 5c.
- Parthenifolium Aureum Selaginoides**. Finely cut, fern-like leaves of bright golden yellow color. Extra fine for bedding. Half hardy perennial; twelve to fifteen inches high. Pkt. 10c.
- Roseum**. Ray flowers two to three inches in diameter, carmine-rose with golden yellow center. Foliage finely cut. Hardy perennial; two to two and one-half feet high. Pkt. 10c.

Rhodanthe One of the most beautiful everlasting; sometimes called Straw Flower. Flowers somewhat bell-shaped, rose with golden center and white with yellow disc, gracefully poised on slender stems. Blooms should be gathered before fully expanded and dried in the shade. Start under glass, or sow seed outdoors after danger of frost is over. Tender annual; one and one-half to two feet high. MIXED. Pkt. 5c.

RICINUS—(See *Castor Bean*)

- Rocket, Sweet** (*Hesperis matronalis*) Produces loose clusters of flowers very fragrant during the evening and useful for cutting. Flowers cruciform, somewhat resembling the single Stock but smaller. Seed germinates readily in open ground if sown after danger from frost is past. Hardy perennial.
- Purple**. Plants two and one-half to three feet high. Pkt. 5c.
- White**. About two feet high. Pkt. 5c.

Rose **Multiflora Dwarf Perpetual, Mixed.** Plants under ordinary care will commence to flower when six inches high and about two months old, and will continue to grow and bloom until they form compact bushes about sixteen inches high, well covered with single and double flowers. Open the berries and separate the seeds, sowing in pots of rich sandy soil and keep at about 70° F. and moderately moist. When plants are about one inch high transplant and give plenty of light and air. Tender perennial; blooming the first year. Pkt. 15c.

ROSE MOSS—(See *Portulaca*)

Salpiglossis Very showy bedding or border plants with richly colored, funnel-shaped flowers which are purple, scarlet, crimson, yellow, buff, blue or almost black, beautifully marbled and pencilled. For early blooming seed may be started indoors as early as the middle of March and the young plants set out in the garden one foot apart, or seed may be sown outdoors after settled warm weather. Useful for cutting. Blooms from August to October. Half hardy annual; about two feet high.

- Fine Mixed**. Hybrids. Easily grown annual; long stemmed flowers, in many beautiful shades and markings. Oz. 50c. Pkt. 5c.
- Large Flowering Mixed**. A mixture of improved sorts, more compact than the ordinary varieties and with much larger, more richly colored flowers. Pkt. 10c.

Salvia

(*Flowering Sage*) Among the most brilliantly colored of garden flowers and extremely useful for bedding; also valuable for pot culture and cutting. Blooms are borne in long spikes well above the foliage and are of fiery red, crimson or blue, continuing in flower a long time. The densely filled flower spikes are often eight to ten inches long and include thirty or more tube-like florets, one to two inches in length. Start early in heat and transplant into light soil one to two feet apart; or seed can be sown outdoors after danger from frost is past. Tender perennial, but blooms the first season; height one and one-half to three feet.

- Splendens**. Sold also as "Spendens Bontire." Large, brilliant scarlet flowers are in these plants afforded a rich, dark green background of dense foliage. This variety is most generally used in parks and on extensive lawns, as in growth it is more vigorous than the more dwarf varieties. One of the most striking and effective bedding plants. Two and one-half to three feet high. Oz. \$2.00. Pkt. 10c.
- Patens**. One of the finest blue flowers known; not as well suited for bedding as the other varieties of salvia, but very attractive in the mixed border. Height of plant, about one and one-half to two feet. Pkt. 15c.
- Fireball**. Many strains of *Salvia Splendens* have been offered under different names with the claim that they are larger flowered or more floriferous than the old type. We have found none of them more distinctly valuable than this strain in which the plant is more uniformly dwarf, and comes into bloom earlier than most sorts and remains covered with brilliant red flower spikes a remarkably long time. About two feet high. Pkt. 10c.

SCABIOSA—(See *Mourning Bride*) SCARLET FLAX—(See *Linum*)



SALPIGLOSSIS

Schizanthus **Retusus trimaculatus**. Also known as Butterfly Flower or Poor Man's Orchid. Dainty compact branching plants with finely cut foliage, covered when in bloom with clusters of brilliantly colored butterfly-like flowers. Valuable for garden decoration or pot culture. Petals bright yellow with margins and tube of purple-rose, shading from lighter to darker shades. The seed may be sown outdoors after danger of frost is past, where the plants are to remain; or start inside and transplant when weather is suitable. Hardy annual; about twenty inches high. Pkt. 15c.

SENSITIVE PLANT—(See *Mimosa Pudica*)

Smilax (*Myrsiphyllum asparagoides*) No twining plant in cultivation surpasses this in graceful beauty of foliage. Indispensable to florists for table and house decoration. The hard texture of its small glossy green leaves permits the long delicate sprays of foliage to be kept without wilting several days after being cut. Planted in spring it makes a fine pot plant for fall and winter. The seed germinates very slowly. The process may be hastened somewhat by soaking the seed in hot water for ten hours before planting, but even then it is often six or eight weeks before the plants make their appearance. Tender perennial climber, ten feet high. Oz. 50c. Pkt. 5c.

Snapdragon

(*Antirrhinum*) This well known old border and bedding plant of long blooming season

is now one of the best perennials suitable for flowering as an annual. The long showy spikes of curiously shaped tubular flowers with irregular spreading lobes and finely marked throats are fragrant as well as brilliantly colored. They are very desirable for cutting as the spikes of bloom are borne well above the dark glossy leaves and keep fresh a long time. For blooms the first season outdoors, sow seed very early under glass and transplant to open border as soon as the ground is warm and dry, preferably in rich loamy soil in a sunny situation, setting one foot apart each way and giving them plenty of water; or sow the seed in August or September and cover the plants with a mulch on the approach of cold weather. These fall-sown plants may be transplanted into pots and flowered in the house, and in this case give them the same temperature and treatment as geraniums and carnations. Tender perennial, often treated as annual or biennial; one and one-half to two feet high.

- Majus album**. Pure white, light yellow throat. Pkt. 5c.
- Majus brilliant**. Crimson and yellow, throat white. Pkt. 5c.
- Majus Delila**. Reddish-violet, white throat. Pkt. 5c.
- Fine Mixed**. Includes all of the best colors. Oz. 25c. Pkt. 5c.

STIPA PENNATA—(See *Feather Grass*)

Stock

Mathiola. Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted and particularly valued for edgings, bedding and pot culture. The improved varieties

we offer of this favorite garden plant produce dense spikes of very fragrant and beautiful rose-like double flowers in a wide range of attractive colors. They are suitable for cutting, being produced on stems of good length in pleasing contrast with the dark green foliage of the bushy plants. Each of the four types is of long flowering period, and if the earlier ones are started indoors, a profusion of fragrant and pleasing flowers is afforded for the entire season. Sow seed outdoors early in spring, using well fertilized, carefully pulverized soil and cover the seed with one-fourth inch of fine soil firmly pressed down. Make the rows fifteen inches apart. Thin to six inches apart in the row. For earlier blooming start indoors and transplant. Height of plants, one to one and one-half feet.

Early Flowering Brompton

A decidedly superior annual strain with the splendid foliage and bloom of the older type but flowering with the German Ten Weeks and decidedly superior on account of its length of stem and size of flower spike.

- Belle of Naples.** Old rose or light purplish rose. Pkt. 15c.
- Camaldoli.** Dark violet or light purplish red. " 15c.
- Snow White.** " 10c.
- Vesuvius.** Blood-red or deep purplish red. " 15c.
- Mixed.** Includes shades of white, old rose, blood-red, purple and violet. Oz. \$3.00. Pkt. 5c.

Double German Ten Weeks

This favorite half-hardy summer blooming annual has deliciously fragrant flowers and is very desirable for cutting.

- Double German Ten Weeks, Mixed.** Shades of white, red, purple, lavender and maroon. Oz. \$1.00. Pkt. 5c.
- Double German Ten Weeks, Pure White.** Very useful for floral work and bouquets. Oz. \$2.75. Pkt. 10c.

Intermediate or Autumnal Stocks

Sown at the same time as the Ten Weeks, will succeed them in bloom, thus affording flowers continuously until late in the fall. Flowers larger, on longer, bolder spikes. For indoor blooming, if sown in pots late in summer the plants will bloom the following spring.

- Intermediate White.** Pkt. 15c. **Intermediate Scarlet.** Pkt. 15c.

Brompton and Emperor Stocks

These require a longer time than the Intermediate to grow and cannot endure our winters unless protected.

Brompton, mixed. Bushy plants flowering in the fall outdoors if started in hotheb early in spring and transplanted, or blooming well in winter from seed sown outdoors in summer if plants are taken up in the fall and given cool airy quarters indoors; half hardy biennial. Oz. \$4.00. Pkt. 10c.

Emperor, or Perpetual, mixed. Fine spikes of bloom rich and attractive. It will live several years outdoors if protected from frost. Sow in spring for fall and winter flowers indoors; sow in midsummer for spring blooming. Tender perennial. Oz. \$5.00. Pkt. 10c.

STRAW FLOWER (See *Helichrysum* and *Rhodanthe*)



STOCK, EARLY FLOWERING BROMPTON

Sunflower

(*Helianthus*) These stately, old fashioned flowers with the

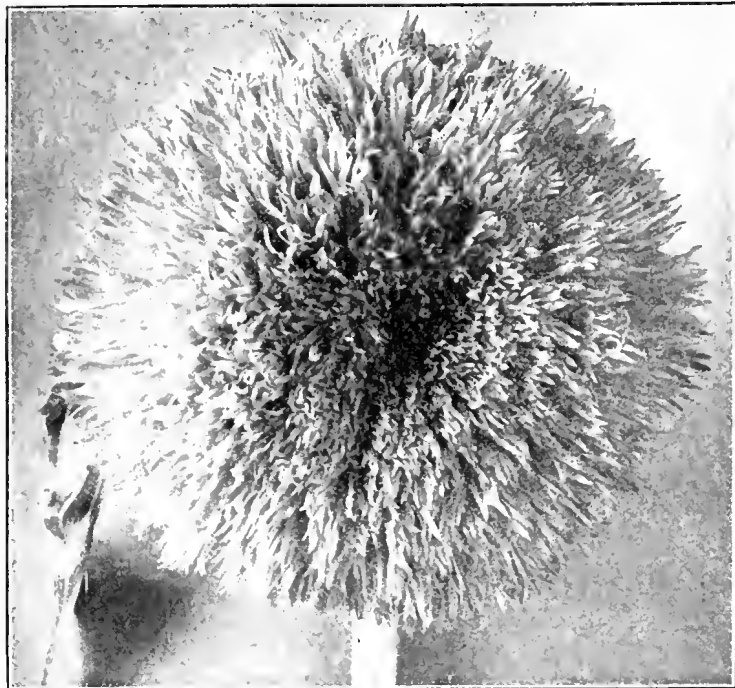
newer improved varieties are coming into special favor as a background for lawns and in front of high fences. Valuable also as a screen to hide unsightly places and sometimes used to mitigate the evil of adjacent swamp holes. Their very tall dense growth and bright yellow disc-like flowers of very large size and long blooming period make them one of the most deserving and useful of hardy annuals. Sunflowers grow readily in almost any soil but do best on light rich limestone or alluvial land well supplied with moisture and not shaded by trees or buildings. Sow seed outdoors in spring after danger of frost is over, preferably in well pulverized soil, either broadcast or in rows two to three feet apart and cover with about one-half inch of fine soil firmly pressed down. When about four inches high, thin one and one-half to two feet apart to secure best development.

Double Chrysanthemum Flowered. The most attractive of the very double sunflowers. Plant tall, growing seven feet high and blooming profusely all summer. Flowers very large, often eight to ten inches across, very double, with long fringed petals and resemble chrysanthemums. The color is a splendid, rich, golden-yellow, free from any black center. Oz. 25c. Pkt. 5c.

Globus Fistulosus (*Globe, or Dublin Sunflower*) This variety produces very large, exceedingly double flowers, often six to eight inches in diameter and of bright yellow color. The plants are about five feet high. Oz. 25c. Pkt. 5c.

Stella. The plant of this line variety is spreading, with many branches and attains a height of about three feet. The flowers are about three inches in diameter and are of an unusually pure golden yellow with black discs or centers, and are borne on long stems well above the foliage. Early blooming and produced in abundance throughout a long season. Oz. 30c. Pkt. 5c.

SWEET ROCKET—(See *Rocket*)



SUNFLOWER, DOUBLE CHRYSANTHEMUM FLOWERED

SWEET PEAS

(*Lathyrus odoratus*) No garden is too small for a row of Sweet Peas and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower. Its long blooming season usually extends from early summer until very hot dry weather and no other climber equals it for cutting, either for use in bouquets or for table decoration. Hundreds of varieties have been offered for sale by seedsmen but owing to recent marked improvements many sorts are decidedly inferior and have been dropped from our list. In describing varieties, by "standard" is meant the wide petal at the top of the flower; the "wings" are the two petals below.

Extra Early Blanche Ferry and Earliest White, being the **earliest known varieties**, are excellent for growing indoors.

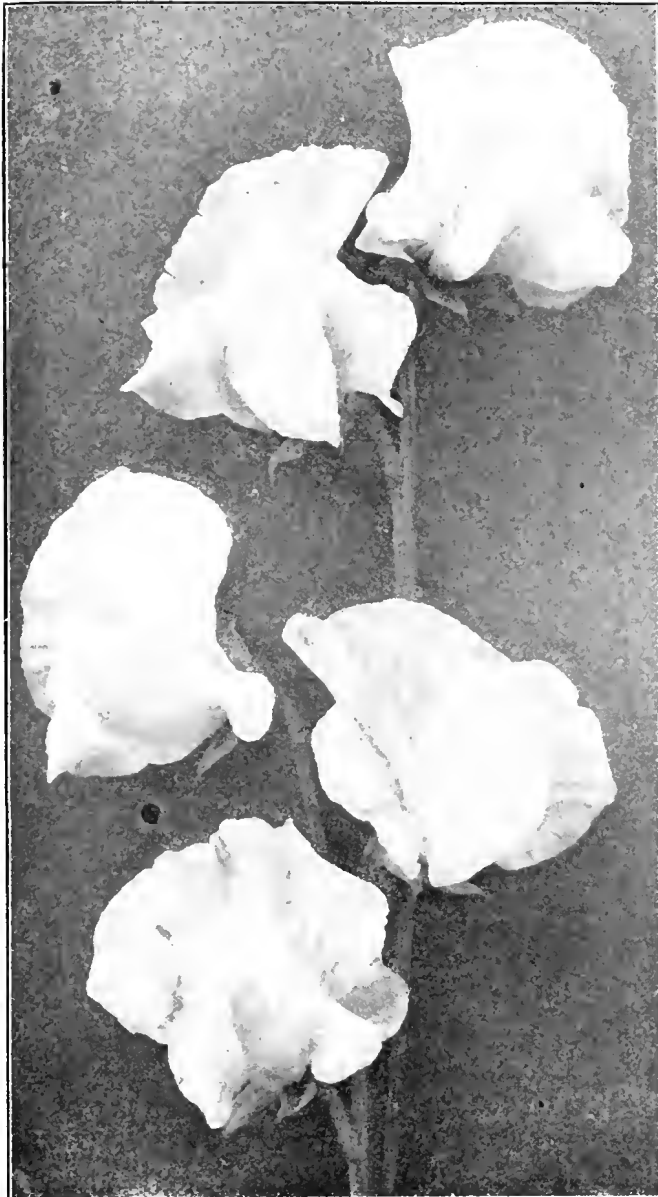
For Outdoor Planting there are two general classes. By far the more extensive is the Grandiflora or large flowering division which, aside from the Spencer types, comprises practically all of the varieties we list. This class, owing to its general vigor of growth, its freedom of blooming and extremely wide range of colors, is best suited for ordinary conditions of growth and location.

The Spencer Types are of exceptionally large size, the standards and wings waved or frilled and the general effect remarkably graceful and attractive. Undoubtedly the finest Sweet Peas yet developed are found in this class. All Spencers are decidedly shy seeders, hence the price will doubtless always be considerably higher than for the older types. We offer on this page what we consider to be the best varieties yet introduced and we recommend them unreservedly.

Culture. Early in spring make a trench three to four inches deep in rich, mellow soil, so arranged that no water can stand in it and plant the seed in the bottom, covering at first only one inch deep. Sweet Peas, particularly the white seeded sorts, are often a little difficult to start. If the soil is too dry they will remain a long time without germinating; if it is too wet and cold they will not sprout at all. In soils at all heavy, or composed largely of clay, put about one inch of sand in the bottom of the trench and sow the seed on this, covering with more sand. Cover the row with a board to shed the rain and protect the soil from the hot sun but remove this as soon as the young plants appear. When the plants are two inches high, cultivate and as they grow gradually fill up the trench. When the plants are about five inches high it is desirable to furnish some support for the vines to run upon, preferably a wire netting firmly supported by stakes to prevent sagging, but strings or brush are often used with satisfactory results. The roots should not be allowed to become too dry. Water applied thoroughly once or twice a week preferably early in the morning or in the evening, is usually better than light sprinkling more frequently. A better growth of vine and earlier blooming often results from planting seed late in the fall instead of early in the spring. The blooms should be picked before they form pods or the plants will soon stop flowering.

SPENCER VARIETIES

- APPLE BLOSSOM SPENCER.** Bright rose standard with primrose wings. Very large; true Spencer form. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- ASTA OHN.** Suffused lavender or tinted mauve; true Spencer form, large and wavy. One of the best. Pkt. 10c; Oz. 50c; ¼ Lb. \$1.50
- AURORA SPENCER.** Flowers large, brilliant orange rose, striped and flaked on white. The most attractive of the striped Spencers. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- BLANCHE FERRY SPENCER.** This is similar in color to the old Blanche Ferry but like all Spencers the type is not unalterably fixed. The pink is usually a little darker than Blanche Ferry and some of the flowers show striping. It is a very pleasing sweet pea and is one of the most attractive varieties yet introduced. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- CAPTAIN OF THE BLUES SPENCER.** Purple, with blue wings, beautifully waved. Flowers are of large Spencer form, but lighter shade than Captain of the Blues; more truly Waverly Spencer in color. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- COUNTESS SPENCER.** Bright clear pink; very large, open form; long stems. A very desirable variety. Pkt. 10c; Oz. 50c; ¼ Lb. \$1.50
- DAINTY SPENCER.** White suffused and edged with pink; large and of Spencer form; very free blooming. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- FLORENCE MORSE SPENCER.** A very large, delicate bluish with pink margin. Of the best type; excellent for cutting. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- GEORGE HERBERT.** A bright, rose carmine, Spencer variety of large size. Both standard and wings beautifully waved. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- GLADYS UNWIN.** Clear light bright pink with deeper shade at edge of standard. One of the best of the large waved or Spencer types. Pkt. 5c; Oz. 25c; ¼ Lb. 75c.
- HELEN LEWIS.** A rich crimson orange, with wings of orange rose. Large, fine Spencer form. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- KING EDWARD SPENCER.** Brilliant crimson scarlet; very large size and of open form. The best of the bright red Spencers. Pkt. 10c; Oz. 50c; ¼ Lb. \$1.50
- MRS. ROUTZAHN.** A most attractive Spencer of largest size and very graceful form; primrose and buff, shaded light rose at edges. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- NORA UNWIN.** Flowers very large, pure white, Spencer type with very broad standard, beautifully frilled. One of the finest white sweet peas yet introduced. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- OTHELLO SPENCER.** A beautiful, deep, pure maroon of the large Spencer type. Much the best of the maroon shades of Spencers. Pkt. 10c; Oz. 40c; ¼ Lb. \$1.25
- PRIMROSE SPENCER.** The best primrose sweet pea yet developed. True Spencer type, large wavy petals, frilled at edges; clear, distinct color. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- TENNANT SPENCER.** A light rosy purple or purplish mauve Spencer of very large size and excellent form. Pkt. 10c; Oz. 35c; ¼ Lb. \$1.00
- WHITE SPENCER.** Standard and wings of pure white, beautifully waved and fluted. An especially attractive variety of very large size. Pkt. 10c; Oz. 75c; ¼ Lb. \$2.00



PRIMROSE SPENCER

(See page 90 for mixtures of Spencer sweet peas.)

SWEET PEAS—Continued

WHITE

DOROTHY ECKFORD. Vine very robust and exceedingly floriferous. Flowers of large size, pure white, beautifully shell shaped, hooded form; usually three on a stem. One of the best of this class. Seed white. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

EARLIEST WHITE. The earliest blooming white Sweet Pea. Similar in form to and selected from Extra Early Blanche Ferry. Seed black. Its extreme earliness makes it a most desirable variety for forcing. Pkt. 10c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

EMILY HENDERSON. A well formed, clear white flower of medium size. An early and wonderfully free and persistent bloomer. Seed white. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MONT BLANC. This variety originated in the Extra Early Blanche Ferry and like that sort the vine is of dwarf, slender, very graceful habit with narrow leaves. Flowers of good form and size and very clear white color. Seed white. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

LIGHT YELLOW

HON. MRS. E. KENYON. The best of the deeper primrose shades; a beautiful, large semi-hooded, self-colored flower; white seeded. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MRS. COLLIER. Large, light primrose; very beautiful, slightly hooded form. Similar to Hon. Mrs. E. Kenyon but lighter. Seed white. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

QUEEN VICTORIA. Light primrose of hooded form showing a pink tint in the bud; clear, soft primrose when matured. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

RED WITH WHITE WINGS

BLANCHE FERRY. Blooms very early and continues to produce an abundance of flowers through a long season. The flowers are a combination of bright pink and white, having a delicate but brilliant effect. Standard medium sized, fine form and bright pink color; wings large, rounded and nearly white. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

EXTRA EARLY BLANCHE FERRY. The earliest known sweet pea. This is the pioneer extra early sweet pea and bears much the same relation to the other sorts of this section that the original Blanche Ferry does to other American sorts, in that it is of vigorous and hardy though dwarf habit and a wonderfully free and persistent bloomer. It will be found to be the first to furnish flowers either in greenhouse or out of doors and it will continue to furnish them in great abundance longer than most varieties. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

LIGHT PINK

AGNES ECKFORD. The flowers are a most delicate shade of light pink, medium large in size and of hooded form. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

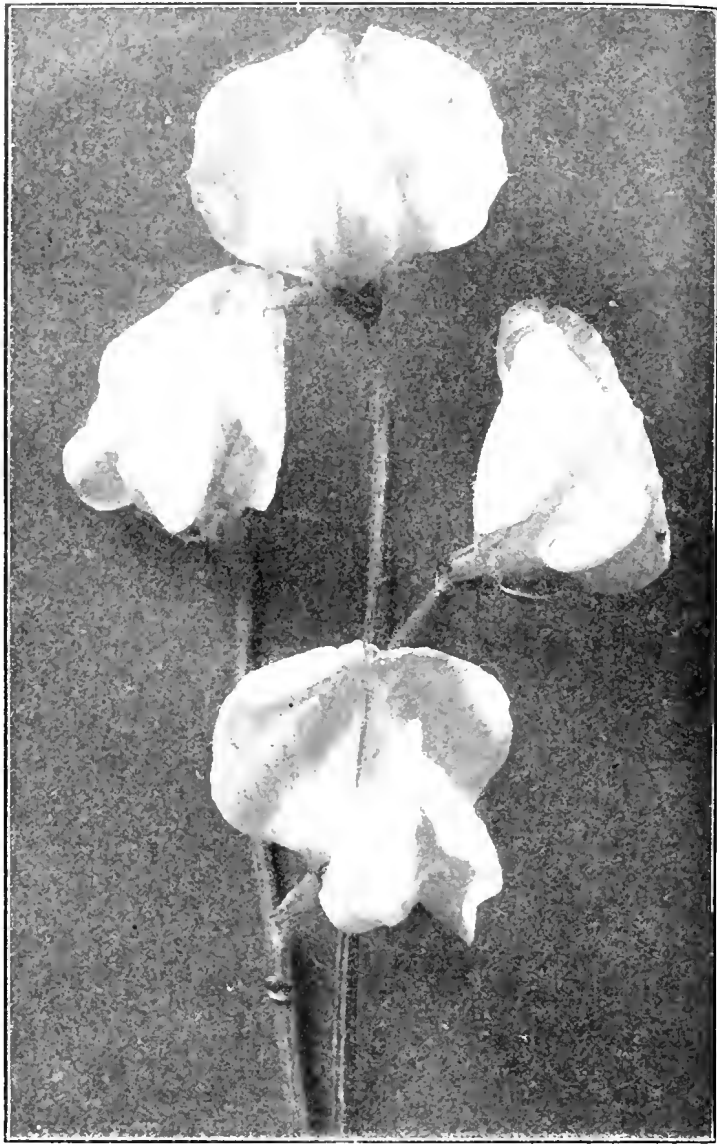
DAINTY. The flowers are white, edged with light pink. They are of hooded form and are borne on very long stems. The variety is similar to but lighter than Eliza Eckford. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

KATHERINE TRACY. The color of the flowers is a soft but brilliant pink in wings and standard. The plants are vigorous in growth and give a profusion of flowers which continue of good size until the end of the season. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

LOVELY. Flowers large, fine form. Standard and wings both deep pink, shading to very light pink at the edges; often four flowers on a stem. One of the best of this class. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

PRIMA DONNA. The stems bear three or four large perfect flowers of a brilliant yet soft shade of pink. One of the best of the hooded pink varieties. A very clear shade. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

STELLA MORSE. Flowers of a peculiar warm salmon-pink; hooded form and of good size. A combination yellow and pink which is distinct and very attractive. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50



KATHERINE TRACY

ORANGE PINK

BOLTON'S PINK. Orange pink veined with rose, large size; semi-hooded form. An excellent variety. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

MISS WILLMOTT. A fine, semi-hooded type; standard orange pink; wings rose tinted with orange. Flowers of good size, borne on long stems; plant very vigorous. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

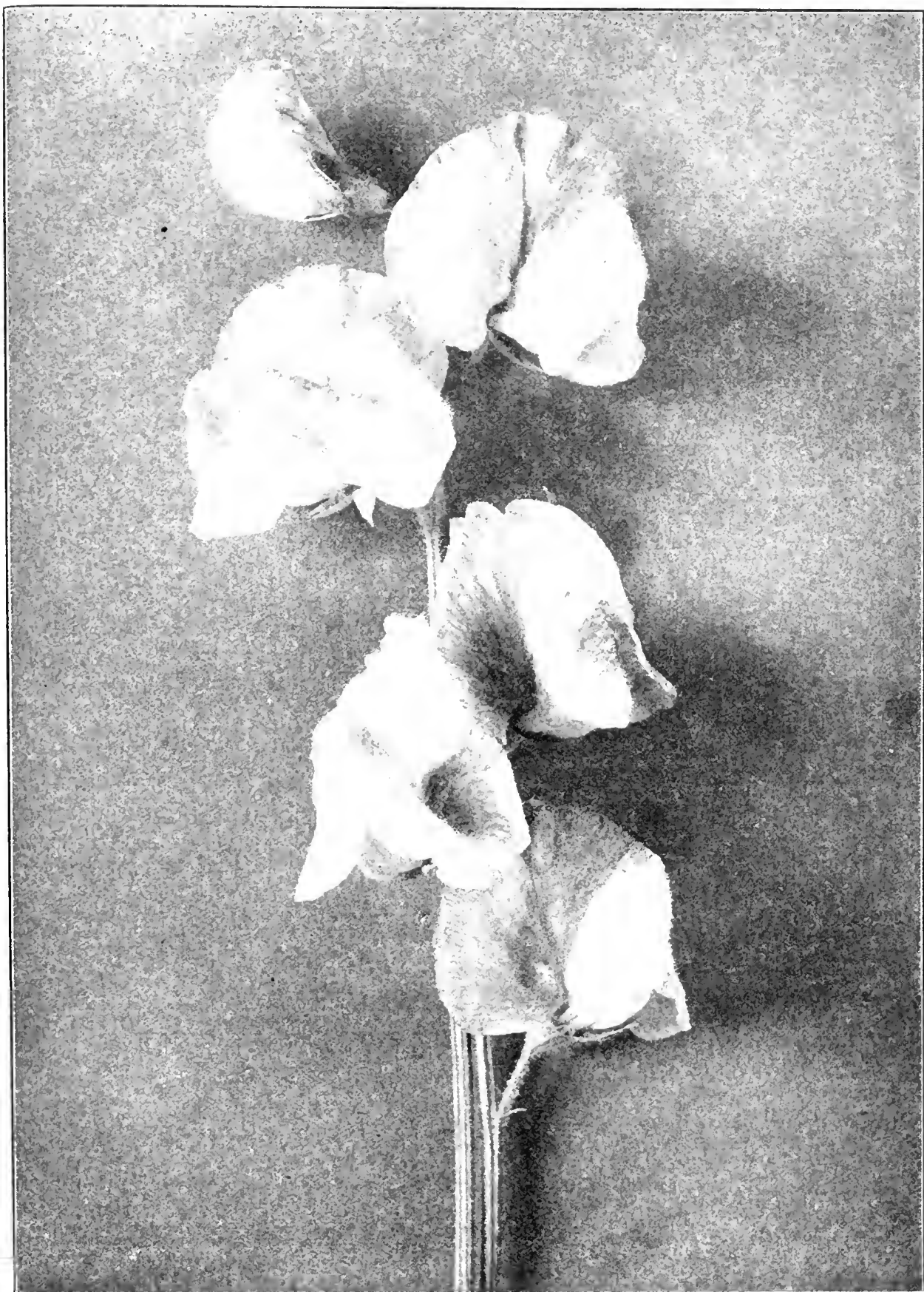
ST. GEORGE. The brightest of the orange pinks. Flowers large, of open form or slightly waved. A wonderfully brilliant shade. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

PINK AND RED STRIPES

AMERICA. White, nearly covered with splashes, stripes and dots of exceedingly bright carmine. Open form, of good size and holds its color well. The most brilliant red striped sort. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

AURORA. Flowers large and of fine form. The standard and wings are striped and flaked with delicate orange-salmon-pink over white. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MRS. JOSEPH CHAMBERLAIN. Large and perfectly shaped flowers; white, striped with light purplish rose. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50



SWEET PEA6 - AURORA SPENCER

SWEET PEAS—Continued

SHADES OF RED

COCCINEA. Distinct in color, a bright cherry red or cerise and unlike any other we offer. A very pleasing and effective flower of good size and semi-hooded form. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

E. J. CASTLE. Carmine rose, similar in color to John Hugman, but of larger Unwin type; open form with wavy edges. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

FIREFLY. Very bright, intense crimson scarlet, of good size and open form. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

HER MAJESTY. The flowers are large and both the standard and wings are beautifully curved and a delicate rosy crimson color. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

KING EDWARD VII. A bright crimson scarlet of largest size; open form well expanded, round standard. One of the very best, of as fine color as Firefly and of larger size and better form. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

LORD ROSEBERRY. Magenta rose, veined with a deeper shade of good size and hooded form. Larger and brighter than Lord Kenyon. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MILLIE MASLIN. A very attractive new shade of crimson-red. Large hooded or shell-shaped flowers. One of the best. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

PRINCE OF WALES. Flowers very large grandiflora, hooded form, and of a peculiar brilliant red, distinct in shade from any other sweet pea. Very attractive. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

QUEEN ALEXANDRA. A magnificent, bright scarlet red, large, semi-hooded. Unsurpassed in brilliancy of color. The nearest scarlet in sweet peas. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

ROYAL ROSE. One of the largest, most finely formed flowers. Standard deep rose pink; wings a lighter shade of same color. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

SALOPIAN. One of the most brilliant and richly colored sorts yet introduced. The flowers are of hooded form, large and a very rich, brilliant cardinal red. A little deeper than King Edward VII and quite distinct. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

BLUE AND PURPLE

CAPTAIN OF THE BLUES. Standard large, broad, bright purple blue; wings expanded, lighter and brighter blue than standard. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

COUNTESS OF CADOGAN. Stems very long, each bearing three or four flowers, a little darker than Navy Blue. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

DUKE OF WESTMINSTER. Standard purple, wings of purple shading to violet, large size, hooded form. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

FLORA NORTON. The clearest blue sweet pea. Medium size, open form, usually three flowers on a stem. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

LORD NELSON. Deeper in color than Navy Blue and especially on the vine is a very attractive rich deep blue. The flowers are of good size, semi-hooded form. One of the best of the grandiflora type. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

NAVY BLUE. A true blue, quite distinct. Medium size; semi-hooded form. Standard indigo and violet; wings navy blue shading to light blue. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

PURPLE STRIPES

HESTER. Large, finely shaped flowers of open grandiflora type; color purplish blue, marbled and shaded on white ground. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.25

SENATOR. Standard broad, very large, delicate lavender, nearly covered with stripes and splashes of purple maroon; wings medium sized, round, striped with a bluer shade than the standard. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

LAVENDER AND LIGHT BLUE

COUNTESS OF RADNOR. Flowers nearly self colored in a very distinct and beautiful shade of lavender. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

FRANK DOLBY. A lavender of Unwin type, similar in color to Lady Grisel Hamilton, but the flowers are larger and beautifully waved and frilled. Pkt. 5c; Oz. 25c; ¼ Lb. 75c; Lb. \$2.25

HELEN PIERCE. Veined and finely mottled bright blue on white; semi-hooded form. Exceptionally attractive in coloring. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

LADY GRISEL HAMILTON. A large flower similar in color to Countess of Radnor, but nearer blue; hooded form. One of the best. Pkt. 5c; Oz. 20c; ¼ Lb. 60c; Lb. \$1.75

LOTTIE ECKFORD. Standard white, heavily shaded with lilac; wings shaded with lighter shade of lilac. Both standard and wings have a picotee edge of magenta blue. The coloring is delicate and very pleasing. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MAID OF HONOR. Medium sized flower, nearly white having a distinct edging of blue which gives it a peculiar and very attractive appearance. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MRS. GEORGE HIGGINSON, JR. A very clear delicate shade of lilac blue, self colored; medium size, semi-hooded form, usually three flowers on a stem. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

MRS. WALTER WRIGHT. A very large, hooded, rose purple self, changing to rich bluish purple. A splendid variety, similar to Dorothy Tennant but larger. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

ROMOLO PIAZANNI. Flowers rose purple, changing to lilac and blue. Large size, hooded, and better than Fascination. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

CLARET AND MAROON

BLACK KNIGHT. One of the darkest varieties; very deep maroon flowers of medium size. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

BOREATTON. One of the darkest and most richly colored. Standard large, rounded; rich, satin-like maroon. Wings similar in color to standard. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

HORACE J. WRIGHT. Large violet-maroon flowers, somewhat waved, hooded or shell shape. Similar to Duke of Sutherland but better. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

OTHELLO. A very dark maroon, practically self colored with almost black veining. Large size, hooded form, very attractive. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

STANLEY. A very beautiful sort. Standard large and flat; color a deep maroon and warmer than Boreatton. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

Mixtures of Sweet Peas

Most people obtain more satisfaction from planting Sweet Peas in mixture than from growing named sorts, but to be successful it is necessary that the seed be of the best quality obtainable. Often what is offered as mixed seed is stock harvested from plants that have come up as volunteers on ground where Sweet Peas have been grown before, or a lot of seed which has been grown, saved or handled so carelessly that it cannot be sold as any distinct variety. The use of such seeds will not give satisfactory results. However, where the seed is grown from the very best stock that can be produced, is mixed in most carefully studied proportions and then the seeds of desirable but shy seeding sorts are added, there is nothing superior for use in the home garden. We assure our customers the Mixtures of Sweet Peas which we offer are the results of as great care in selecting as any stocks we grow and as fine flowers are obtained from them as from any seed that can be bought. We invite comparison with any and all others, no matter under what name or at how high prices offered and are certain that a trial will demonstrate the superiority of our mixtures.

Choice Mixed This mixture has been most carefully grown from our selected stock seed and it will afford a splendid variety of blooms of improved forms and in the widest possible range of desirable colors. Many of the most pleasing and brilliant colors are included. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.25

Ferry's Superb Mixed We make up this mixture by combining in carefully considered proportions twenty-one separate named varieties, each the very choicest of its class. This was done after first carefully considering the desirability of color, form and freedom of blooming in our many trials of nearly two hundred different named sorts. Nowhere else can one procure a more magnificent mixture of finely formed and beautifully colored, large flowering Sweet Peas. Pkt. 5c; Oz. 15c; ¼ Lb. 40c; Lb. \$1.50

Spencers Mixed A splendid mixture of Spencer varieties grown for us by the most careful methods from proven stocks. A wide range of colors is thus assured in this comparatively new class of Sweet Peas of such remarkably large size and wonderfully attractive form. Pkt. 5c; Oz. 35c; ¼ Lb. \$1.00

Ferry's Superb Spencers Mixed We make up this magnificent mixture by combining eighteen separate named Spencer varieties, each of which our trials have repeatedly shown to be the very best of its class. Unsurpassed as a mixture of this superb class and showing the most desirable range of colors and the finest forms. No better mixture in all the world than this. Pkt. 10c; Oz. 50c; ¼ Lb. \$1.50

(See page 87 for list of named Spencer varieties.)

Sweet William

(*Dianthus barbatus*) A well known sweet scented old fashioned perennial for bedding and borders, forming fine clumps in any good garden soil and under proper conditions lasting for several seasons. It is one of the most desirable for display in the garden. The plants are easily grown, hardy and free flowering. They produce a succession of flower clusters, thus affording splendid bloom for several weeks. The florets are handsomely colored and marked, and are borne on stiff stems in great profusion, forming dense round topped heads or clusters, often three to four inches across. The colors are exceedingly varied, ranging from white through many shades of rose, lilac, red, carmine, crimson, maroon to nearly black, usually two shades to each plant. Sow outdoors very early in spring, preferably in rich, mellow soil, in rows one foot apart. Cover seed with one-fourth inch of fine soil firmly pressed down. When two inches high, thin to six inches apart. In the more northerly latitudes, protect with mulching in winter. Seed can also be sown in fall. There are usually no flowers until the second season, but if seed is started very early under glass and transplanted, blooms may be had late in autumn. The old clumps may be divided but it is usually more satisfactory to start vigorous young plants every year or two. Hardy perennial; one and one-half feet high.

- Black.** Flowers reddish, velvety black; very desirable on account of its rich, deep color. Oz. 25c..... Pkt. 5c.
- White, pure.** Beautiful white flowers, sometimes faintly marked about the eye. Oz. 25c..... " 5c.
- Fine Mixed.** This mixture will be found especially satisfactory. Oz. 25c..... " 5c.
- Mixed Double.** Double flowers in a great variety of colors and shades. Oz. 50c..... " 5c.

TAGETES—(See *Marigold*)
TROPÆOLUM CANARIENSE—(See *Canary Bird Flower*)

TROPÆOLUM LOBBIANUM—(See *Nasturtium, Trailing*)
TROPÆOLUM MINOR—(See *Nasturtium, Dwarf*)

Torenia Fournieri A fine annual with trumpet-shaped, sky-blue flowers, each having three spots of dark indigo blue and a yellow stain in the center. Plants of bushy habit, about ten inches high. Extremely handsome when grown in pots or out of doors in a shaded location. Sow in heat very early in spring, or in open border when the weather has become warm and settled, using light rich soil. **Pkt. 10c.**

TOUCH-ME-NOT—(See *Balsam*)

Tree Cypress (*Ipomopsis elegans*) A handsome plant, with fine, feathery foliage, somewhat like that of the Cypress Vine and with beautiful long spikes of small, bright red trumpet shaped flowers. It is equally desirable for outdoor or for conservatory cultivation. Sow the seed in August, in a dry situation; if the ground be at all wet the plants will decay. Half hardy biennial; about three feet high. **Mixed. Oz. 30c.....Pkt. 5c.**

Verbena This well known annual of low growing decumbent habit of growth is very desirable for massing in beds on the lawn. It is suitable also for borders and window boxes. The large clusters of showy flowers are borne in succession through a long season until frost. Each truss or cluster is about two to three inches across, and includes a dozen or more single flowers about three-fourths of an inch across, tubular with five spreading lobes. The length of stem and texture of the flowers make them of value for bouquets and table decorations. There is a wide range of colors, shades and stripes usually running from pure white to deep purple. Verbenas usually flower well in August from seed sown in open ground in May. Germination will be hastened if the seed is soaked in lukewarm water before planting. It is desirable to have the soil well fertilized and carefully pulverized. Cover seed about one-fourth inch deep. When the young plants have three or four leaves transplant in rows two feet apart and about twenty-four inches apart in the row, choosing preferably a sunny situation. At this distance the plants, if conditions are favorable, will spread so as to cover the ground completely. Earlier blooming may be had if the plants are started indoors and transplanted in the open ground after danger of killing frost is over. Half hardy perennial trailer, one foot high, usually treated as an annual.



SWEET WILLIAM

- Montana (Drummondii)** This variety is hardy and exceptionally vigorous in growth of plant; flowers rose changing to lilac; fragrant..... Pkt. 5c.
- Hybrida Defiance.** May be relied upon to produce the true, deep scarlet color. No variety gives a more brilliant effect when used as a bedding plant. Oz. \$1.25..... Pkt. 10c.
- Hybrida Blue.** All shades of blue. Oz. 75c..... " 10c.
- Hybrida Auriculiflora.** Various shades of pink, red, purple and blue, all with distinct white eye. Oz. \$1.00..... Pkt. 10c.

- Hybrida White.** Produces large, pure white flowers; very floriferous, fine for florists; comes true from seed. Oz. \$1.00. Pkt. 5c.
- Mammoth White.** The largest trusses of the finest formed and clearest white flowers of any named sort. It comes absolutely true from seed, thus enabling us to secure the greater vigor and more abundant bloom of the seedling, united with the fine flowers of the named varieties..... Pkt. 10c.
- Hybrida Italian Striped.** Beautiful; produces large, brilliant, striped blossoms in great abundance. Oz. \$1.25..... Pkt. 10c.
- Fine Mixed.** A wide range of colors, shades and stripes usually running from pure white to deep purple. Oz. 75c..... Pkt. 5c.
- Extra Choice Mixed.** Includes all the best types and a wide range of splendid colors. Oz. \$1.25..... Pkt. 10c.
- Mammoth Mixed.** Embraces a wide range of the most beautiful colors, the clusters being of largest size. Oz. \$1.75. Pkt. 15c.
- Hybrida Compacta Mixed.** A distinct sort. The plant forms compact bunches about five inches high and eighteen inches across, covered throughout the season with large trusses of white, scarlet and violet flowers..... Pkt. 15c.

Vinca

(Periwinkle) These very attractive bushy plants with glossy green foliage produce in abundance handsome round or salver shaped single flowers, suitable either for culture in pots or boxes or for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. The plants require no trimming, are in continuous bloom from setting out until frost and are entirely free from the attacks of insects. These desirable features account for the increasing demand for Vincas in parks and private grounds for summer bedding and borders. Tender perennial, blooming the first season, about fifteen inches high.

- Pure White.** Beautiful pure white. Oz. 75c.....Pkt. 5c.
- Rosea.** Rose with crimson eye; flowers often two inches in diameter. A very desirable window plant. Oz. 75c..... " 5c.
- Mixed.** The above named varieties mixed. Oz. 75c..... " 5c.

VIOLA TRICOLOR - *(See Pansy)*

Virginian Stock

(Cheiranthus nardifolius) The plants are of more branching and open habit than the common stocks and are very useful for border or edging. Sow early in spring, or for very early blooming sow in fall or start indoors and transplant. A continual succession of blossoms may be kept up by sowing at intervals through spring and summer. Hardy annual; about nine inches high.

- Red and white, mixed.** Clusters of beautiful single cruciform flowers.....Pkt. 5c.

Wallflower

(Cheiranthus cheiri) An old favorite European garden flower. The long, fragrant terminal spikes of the Wallflower when properly grown are very conspicuous in beds and borders and are very useful in making bouquets. Sow seed early in hotbeds and while plants are small prick them out into pots and sink in the earth. On approach of cold weather remove the pots to the house and the plants will bloom all winter. Tender bushy biennial or perennial that will live through the winter in a mild climate; height of plants about one and one-half feet.

- Early Brown.** Brownish red, fragrant single flowers; large, thick spikes; early. Tender biennial. Oz. 25c.....Pkt. 5c.
- Golden Tom Thumb.** Free flowering, of dwarf and compact habit; blossoms single and of an attractive golden yellow color. Tender biennial.....Pkt. 5c.
- Mixed Double.** Deliciously fragrant, perfectly double, and combine many shades of color, the orange, purple and chocolate predominating. Oz. \$2.50.....Pkt. 10c.

Wild Cucumber

(Echinorhystis lobata) This is a useful climber where a rapid and vigorous growth of vine is desired. To cover or to screen an unsightly building, there is perhaps no annual climber better adapted for the purpose. The vine has abundant foliage and is thickly covered with sprays of small white, fragrant flowers, followed by numerous prickly seed pods. Sow late in fall or very early in spring. Usually the plants are produced from year to year by self sown seed. Hardy annual. Oz. 20c; Lb. \$1.50.....Pkt. 5c.

Wistaria Chinensis

One of the most beautiful and rapid growing of the hardy perennial climbers. When well established in good soil it will often grow fifteen to twenty feet during the season and frequently blooms both in spring and fall. The flowers are very fragrant, single, pale blue, pea-shaped and are borne in long, drooping grape-like clusters, often over a foot in length. Foliage light green pinnate. The seed should be sown in mellow loam early in the spring, or in greenhouse or hotbed in winter and when plants are one foot high transplanted into permanent situations.....Pkt. 20c.

Zinnia

Sometimes called Youth and Old Age. Well known bush-like plants producing a profusion of large double imbricated flowers, usually about two inches across,

borne on stiff stems; much used for bedding and suitable for borders and for cutting. There is much satisfaction in a bed of Zinnias with their twisted and recurved petalled flowers in many bright colors, and when nearly every other flower has been killed by frost, this plant is still in full bloom. Few flowers are more easily grown or bloom more abundantly throughout the season, and the wide range of color is not less remarkable than their unusual depth and richness. Sow the seed early in spring, in open ground in good, rich soil, preferably in rows one and one-half feet apart and covering about one-fourth inch deep. When the young plants are one to two inches high thin to six inches apart. Start under glass for earlier blooming. Half hardy annual; tall growing, about one and one-half to two feet high.

- Double yellow.** Oz. 40c.....Pkt. 5c.
 - " **scarlet.** Oz. 40c..... " 5c.
 - " **deep red.** Oz. 40c..... " 5c.
 - " **magenta.** Oz. 40c..... " 5c.
 - " **orange.** Oz. 40c..... " 5c.
 - " **white.** Oz. 40c..... " 5c.
 - " **black purple.** Oz. 40c..... " 5c.
 - " **dark crimson.** Oz. 40c..... " 5c.
 - " **striped or zebra, mixed.** Oz. 60c..... " 5c.
- Double choice mixed.** Includes the above colors; a very fine mixture. Oz. 40c; Lb. \$1.00.....Pkt. 5c.

Lilliput, double mixed. This strain grows about one foot high and bears a profusion of comparatively small, very double, globular flowers about one inch in diameter, very brilliant in color.....Pkt. 10c.

Pompon, double mixed. The globular flowers are fully as varied and brilliant in color as the ordinary Zinnia and about half its size. Oz. 40c.....Pkt. 5c.

Haageana, double. Dwarf variety with double flowers of a deep orange color, about one and one-quarter inches in diameter; fine for cut flowers; height one foot.....Pkt. 10c.

Mexicana Hybrida, variegated. Distinctive in its well-formed single flowers of deep maroon and golden yellow, strikingly contrasted. Flowers similar to French Legion of Honor Marigold, but are earlier and more easily grown. Hardy annual; one foot high.....Pkt. 15c.



ZINNIA

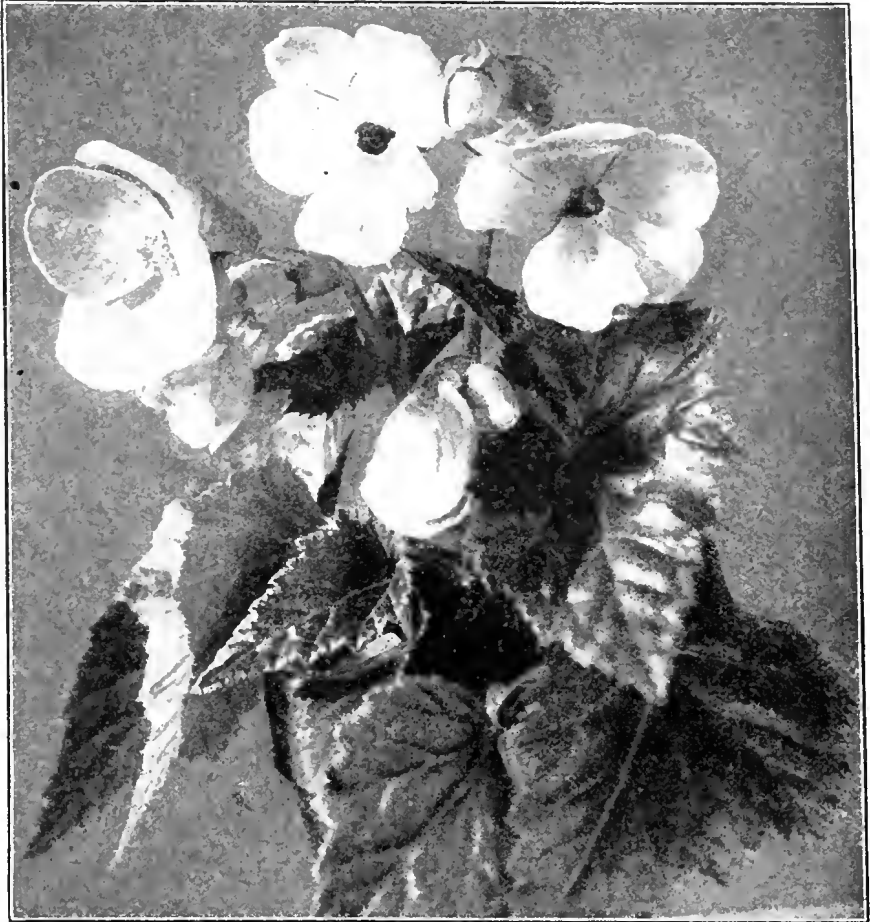
BULBS AND ROOTS FOR SPRING PLANTING

Included in this class are some of our most showy garden flowers and their culture is very easy. In the spring, after danger from frost is over, plant in a rich, loamy soil, having a sunny position and flowers the same season are assured. All bulbs and roots will be sent by mail or express, charges prepaid, when ordered at single or dozen rates. At the 100 rate they will be sent by express or freight, the purchaser paying the charges unless otherwise stated. Not less than six of any one variety supplied at dozen rates and not less than 25 at the 100 rate. Orders with money should be sent to us as early as possible and they will be filled in rotation. Bulbs subject to injury by frost will not be sent until such danger is over.

Begonia

Tuberous Rooted. The tubers which we offer are of the very best quality and with proper care will give a beautiful display early in the summer. For growing in pots or boxes in the house, plant in rich, sandy soil, give good drainage and water freely after the leaves start but do not let the soil become sour or soggy from over-watering. If it is desired to have a bed outdoors, select a shady, moist situation making the bed rich with thoroughly rotted manure and leaf mold, if obtainable. Plant as soon as danger from frost is over. After the plants start into vigorous growth keep well watered.

| | EACH | DOZ. |
|--------------|------|--------|
| Single, pink | 10c. | 65c. |
| " scarlet | 10c. | 65c. |
| " white | 10c. | 65c. |
| " yellow | 10c. | 65c. |
| " mixed | 10c. | 65c. |
| Double, pink | 10c. | \$1.00 |
| " scarlet | 10c. | 1.00 |
| " white | 10c. | 1.00 |
| " yellow | 10c. | 1.00 |
| " mixed | 10c. | 1.00 |



BEGONIA, TUBEROUS ROOTED

Caladium

Esculentum. Known also as Elephant's Ears. One of the finest tropical plants which can be grown in the open air in the north. It can be made to produce three to ten leaves three to four feet long and nearly as wide, on stalks four to six feet high. The soil best suited to Caladiums is a mixture of fibrous loam, leaf mold, peat and well rotted cow or sheep manure in equal parts, with a sprinkling of sand added. Bulbs may be planted outdoors as soon as danger of frost is over, covering about three inches deep; or for largest growth start early indoors in pots and set out when the weather is warm and settled. But little water must be given to the roots till active growth commences, when, as the plants develop, they require an abundance. Humidity and warmth are necessary for their best development.

- First Size Bulbs**, nine inches and over in circumference. **Each 25c; doz. \$2.50**
- Second Size Bulbs**, seven to nine inches in circumference. **Each 15c; doz. \$1.50**
- Third Size Bulbs**, under seven inches in circumference. **Each 10c; doz. \$1.00**

Dahlia

The "Decorative" types are characterized by grace-

fully formed flowers of large size and broad petals, being intermediate in form between the compact "Show" sorts which are nearly round

and the "Cactus" varieties which have loosely formed blossoms with long twisted petals. The roots are tender and easily injured by frost. They should be set out three feet apart, after all danger of frost is over. The best blooms are sometimes obtained if planting is deferred until about June 1. Place the roots horizontally, covering two to three inches deep. Give thorough cultivation and during dry weather water well once a week. Larger blossoms are usually obtained if most of the side shoots are removed. The roots should be placed during winter in a cool cellar but not allowed to freeze. Dahlias usually do not require much fertilizer and fresh barnyard manure especially should not be used. The plants should be supported by tying to stakes.

- Blue Oban.** One of the choicest decorative varieties, very large, nearest to a blue dahlia. **Each 20c; doz. \$2.00**
- Cuban Giant (Giant)** Dark, glowing crimson, shaded maroon; flowers of immense size; decorative. **Each 30c; doz. \$3.00**
- Gabriel (Cactus)** Striking shades of scarlet and cinnamon; long twisted, incurved petals give fringed appearance. **Each 20c; doz. \$1.75**
- Jack Rose.** Brilliant crimson flowers of large size. One of the best decorative dahlias for garden display or for cutting. **Each 20c; doz. \$2.00**
- Jeanne Charmet (New)** Remarkably free flowering and vigorous decorative variety. Rose shaded and edged with carmine and of largest size. **Each 25c; doz. \$2.50**
- Lyndhurst.** A dazzling bright scarlet; large full-centered decorative sort. Excellent for cutting. **Each 20c; doz. \$2.00**
- Maid of Kent.** Cardinal red tipped with white; variable. **Each 15c; doz. \$1.50**
- Mrs. Roosevelt (Giant)** Very double; very large, often over six inches across; color, a delicate shade of soft pink. Decorative; excellent for cutting. **Each 30c; doz. \$3.00**

- Twentieth Century (Single)** Flowers very large, of perfect form and strikingly beautiful; intense rosy crimson with white tips and white disc around yellow center. **Each 20c; doz. \$2.00**
- White Swan (Show)** Snow white; unusually full and round with long stems. **Each 15c; doz. \$1.50**
- Yellow Duke (Giant)** Pure canary-yellow flowers of very large size. A grand decorative variety. **Each 20c; doz. \$2.00**

| | EACH | DOZ. |
|----------------------|------|--------|
| Dahlia, Double, pink | 15c. | \$1.50 |
| " " scarlet | 15c. | 1.50 |
| " " white | 15c. | 1.50 |
| " " yellow | 15c. | 1.50 |
| " " mixed | 15c. | 1.50 |

Dielytra (Bleeding Heart) A hardy perennial plant, with finely cut foliage, blooming in the spring. The flowers are graceful, heart-shaped, pink and white, and are borne in long racemes. **Each 15c; doz. \$1.50**

GLADIOLUS

The Gladiolus is one of the most decorative plants in the garden, and as a cut flower lends itself readily to any arrangement. If the spikes are cut when the lowest flower is in bloom, the others will open in succession and remain fresh a week or ten days. No flower has gained more rapidly in public favor than the Gladiolus; this could not well be otherwise, for in addition to the great intrinsic merit of the flower, it is hardy and blooms the first season from bulbs. The Gladiolus is one of the easiest flowers to grow and will thrive in almost any good soil except a stiff clay. It requires full sunlight and is liable to injury only from rank manure. Plant the bulbs six to nine inches apart, the large ones four inches and the small ones two inches deep. Make an early planting of the smallest bulbs first as soon as the ground is sufficiently dry and warm. Continue to plant at intervals of two weeks during the spring and early summer; in this way a succession of bloom may be had from midsummer until frost. A free use of water during the season of active growth and particularly as the buds begin to show color will be beneficial in producing fine blossoms. In the autumn, before freezing, they should be dug up and the tops allowed to dry down, after which the dry tops, earth and old bulbs can be removed. Store in a cool, dry place, secure from frost until spring.

GIANT FLOWERED VARIETIES

A class of hybrids between *Gladiolus Gandavensis* and *Gladiolus Saundersoni* which for varied and exquisite beauty has never been equaled. The flowers are of very large size, frequently eight inches across, borne on spikes four to five feet high, the upper two feet covered with flowers.

- America.** The finest of the light colored sorts. Very light pink, exquisitely tinted with lavender. Unsurpassed in freedom of bloom and size of flower spike. A magnificent variety. **Each 15c; doz. \$1.25**
- Baron Hulot.** Flowers dark velvety purple and of the Lemoine type. One of the very best so-called blues. **Each 20c; doz. \$2.00**
- Dawn.** Strong, straight and vigorous plant, over four feet high. Flowers large, very beautiful shell pink, slightly penciled in throat. Excellent for cutting. **Each 20c; doz. \$2.00**
- George Paul.** Large flowers, deep crimson, slightly stained yellow, spotted with purple. **Each 10c; doz. \$1.00**
- Jane Dieulafoy.** Flowers creamy white, lower petals stained maroon. Remains in bloom a long time; exceptionally fine for bouquets. **Each 15c; doz. \$1.50**
- Mrs. Beecher.** Beautiful, deep rosy crimson, large well opened flower with pure white throat, freely marked and spotted. **Each 10c; doz. \$1.00**
- William Falconer.** Spike of great length and flowers of exceptionally large size. Beautiful clear light pink. **Each 10c; doz. \$1.00**
- Giant Flowered, fine mixed.** **Each 6c; doz. 60c.**

CHOICE NAMED VARIETIES

These named varieties are selected with special reference to beauty of flower, range of color and habit of plant.

- Augusta.** Pure white, with blue anthers. Strong, straight spikes. **Each 6c; doz. 60c.**
- Brenchleyensis.** Rich, brilliant, dark scarlet. Much used on account of its brilliant color and distinct marking. **Each 5c; doz. 35c.**
- Barron Staffe.** Clear lilac, stained pale violet and yellow. **Each 10c; doz. \$1.00**
- Ceres.** Beautiful white flowers, spotted rose on lower petals. **Each 5c; doz. 35c.**
- Eugene Scribe.** Flowers very large and wide, perfect, tender rose, blazed with carmine red; beautiful. **Each 10c; doz. \$1.00**
- Gil Blas.** Early flowering plant of dwarf habit; flowers salmony rose with a fire-red blotch on straw colored ground. **Each 10c; doz. \$1.00**
- Madam Monneret.** Bright, clear pink. A late variety and very popular. **Each 5c; doz. 50c.**
- May.** A lovely pure white flower, finely flaked with bright, rosy crimson, superb spike. This variety is fine for forcing. **Each 5c; doz. 50c.**
- Reine Blanche.** Pure white, dark carmine blotch. **Each 5c; doz. 50c.**
- Shakespeare.** Flowers well opened on long spike; a very delicate white, blazed with rosy-carmine, large rose-colored stain. Good for forcing. **Each 10c; doz. \$1.00**



GLADIOLUS

GLADIOLUS MIXTURES

These choice assortments must not be confounded with the common mixed sorts. We recommend this stock with perfect confidence, as it is composed only of choice varieties and purchasers can depend upon having a magnificent variety of colors. Single and dozen prices include postage. The 100 rate is by express at purchaser's expense.

| | EACH | DOZ. | PER 100 | | EACH | DOZ. | PER 100 |
|-----------------------------------|------|------|---------|---|------|------|---------|
| Shades of Pink and Rose..... | 5c. | 40c. | \$2.00 | Extra Fine American Hybrids Mixed.... | 5c. | 50c. | \$3.00 |
| " " Scarlet and Red..... | 4c. | 40c. | 1.50 | Groff's Hybrid Seedlings. A great variety | | | |
| " " Orange and Yellow..... | 6c. | 60c. | 4.00 | of shades and markings..... | 5c. | 40c. | 2.00 |
| White and Light Varieties..... | 4c. | 40c. | 2.75 | Lemoine's Butterfly Varieties Mixed. | | | |
| Striped and Variegated Mixed..... | 5c. | 50c. | 3.00 | Throats very distinctly marked..... | 3c. | 25c. | 1.75 |

Lilies

Lilies have always been regarded as among the most beautiful of garden plants. Of queenly

beauty, faultless purity and stately form, too much cannot be said in their praise and we are glad to notice their increasing popularity from year to year. Nearly every variety will, with a little care, endure the severity of our winters and many are among the most hardy of our garden flowers.

Bulbs should be planted as soon as the frost is out of the ground; the earlier the better. Select a well drained spot, dig the soil deep and make it fine, enriching it abundantly with well rotted cow manure, adding a liberal mixture of sand. Set the bulbs from three to five inches deep according to size. During the winter it is advisable to cover the surface of the bed with a thin layer of manure which will afford a slight protection to the bulbs and also materially enrich the soil. In spring the manure may be removed or dug in between the rows. Care should be taken that they have proper drainage, no water being allowed to stand around the roots. Once firmly established, they should not be disturbed oftener than once in five years. To produce extra fine specimens, plant bulbs in pots early in spring and grow them in the house or under glass.

Auratum The glorious, gold-banded lily of Japan and one of the most superb plants in cultivation. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, fading at its edges into the white. Such choice bulbs as we offer, if well cared for, will give from five to ten magnificent flowers the first year and under good cultivation will, after becoming well established give from ten to fifty. **20c. each; \$2.00 per doz.**

Jacobean (*L. Martynii formosissima*) Each of the five narrow petals of this flower is three to four inches long, and a very intense, rich scarlet color of unequalled brilliancy, vividness and purity. The plants are readily grown and although the bulbs are not hardy, they can be easily preserved during the winter in a dry cellar and planted in the open ground in the spring. They may be grown in winter like hyacinths. **10c. each; \$1.00 per doz.**

Longiflorum A very uniform and exceptionally neat plant. Comes readily into bloom for Memorial Day, being a little later forcing variety than *Lilium Harrisii* and preferred by some to that, since the flowers are of better substance. Extensively used by florists for cut flowers. When grown in the open ground it blooms in June or July. The pure white flowers resemble the well-known Bermuda Easter Lily. **12c. each; \$1.25 per doz.**

Speciosum Rubrum No words can overstate the brilliant beauty of these famous Japanese Lilies. The six broad, white or pink petals are thickly dotted with rose or crimson spots and the graceful form and brilliant color make them very effective and desirable. Especially thrifty and hardy. One of the best for garden culture. **20c. each; \$2.00 per doz.**

Madeira Vine Tuberos rooted climber with glossy green leaves and delightfully fragrant, white blossoms. Sometimes called Mignonette Vine. It is of rapid growth, and from a few tubers vines will be produced sufficient to cover one side of a cottage in a single season. The tubers are tender and must be protected from frost during winter. **Each 5c; doz. 40c.**

Tritoma Sometimes called Red Hot Poker. The handsome flowers are produced in large spikes of rich orange-red tinted flower tubes. Plant two feet apart. Tritomas are hardy south of Cincinnati when well covered in winter. In the north, dig up the plants in November, place in boxes with dry earth and store in a cellar. In spring place in a warm, sheltered, well drained spot, preferably with a background of shrubbery. **Each 15c; doz. \$1.50**



LILIUM AURATUM

Speciosum Album Pure white flowers with a greenish band through the center of each petal; of great substance, very fragrant. One of the best for general culture. **25c. each; \$2.00 per doz.**

Tigrinum Flore Pleno (*Double Tiger Lily*) This magnificent lily is of stately habit, bearing great clusters of very large, double flowers on tall, strong stems; color, bright orange-red spotted with black. Height out doors in the open usually three to six feet. **12c. each; \$1.25 per doz.**

Tigrinum Splendens (*Improved Single Tiger Lily*) Has very large flowers of excellent form; color, orange-salmon with dark spots. Height out doors in the open usually three to six feet. **12c. each; \$1.25 per doz.**

Tuberose The flowers of this popular plant are waxy white, double and exceedingly fragrant. They are useful in buttonhole bouquets, in large bouquets, or as single specimens. A good way to grow Tuberose is to fill five-inch pots half full of well rotted cow manure and the remainder with good, rich, sandy soil. Plant the bulbs in this in April, water moderately and hasten growth by putting in a warm, light place. When weather has become warm, plunge the pots in the earth out of doors. They will usually flower before cold weather; if they do not, the pots can be brought in and bulbs will bloom in the house. **Double Dwarf Pearl, extra large bulbs, 4c. each; 40c. per doz; \$2.00 per 100.** We will supply second size bulbs 3 for 10 cents, 25 cents per dozen. *The 100 rates are by express at purchaser's expense.*

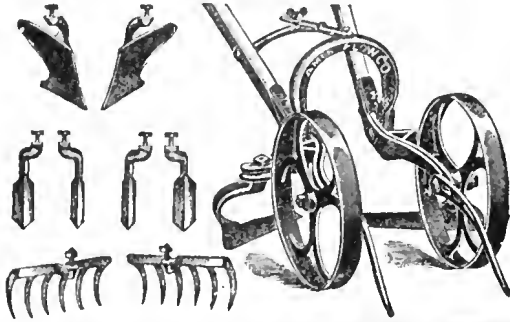
About September First next we will issue our Annual Catalogue of CHOICE DUTCH BULBS AND SEEDS FOR FALL PLANTING. It will be sent free to all customers without ordering it, and to others who apply for it.

Ames New Universal **Garden Tools** ::: Hand :::

Space will permit our showing and describing only a few of the Ames New Universal Tools, but we will send a fully illustrated catalogue free to all who ask for it. We deliver at depot or express office in Detroit, Mich., at prices given herein.

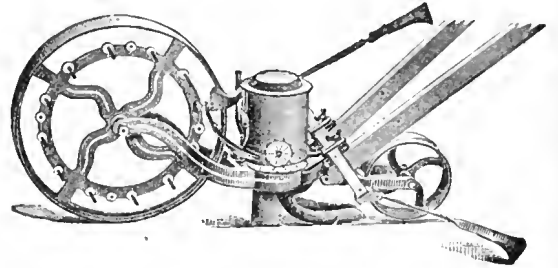
New Universal No. 14, \$5.00

Double Wheel Hoe, Cultivator, Plow and Rake



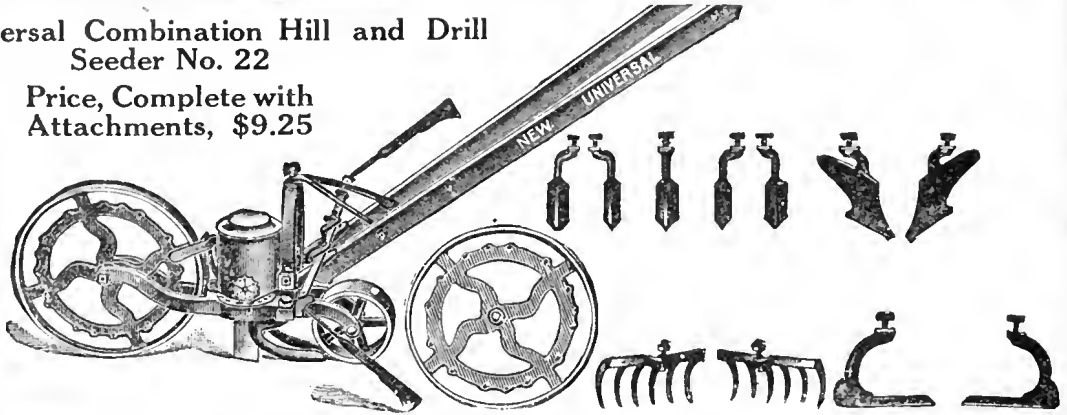
New Universal No. 16, \$7.00

"Hill and Drill" Seeder



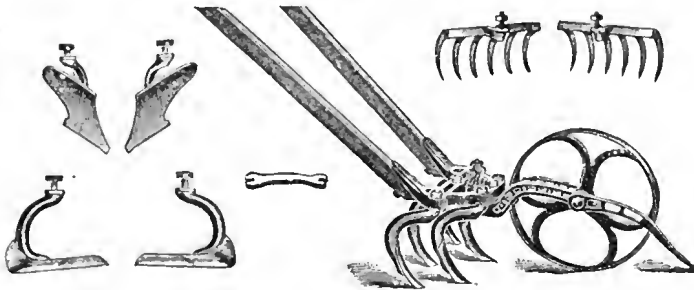
New Universal Combination Hill and Drill Seeder No. 22

Price, Complete with Attachments, \$9.25



New Universal No. 11, \$4.50

Single Wheel Hoe, Cultivator, Plow and Rake



New Universal Constellation No. 19, \$8.00

Seeder, Hoe, Cultivator, Plow, Rake and Marker

New Universal No. 17, \$6.25

Garden Drill

New Universal No. 12, \$4.00

Single Wheel Hoe, Cultivator and Plow

New Universal No. 13, \$2.75

Single Wheel Hoe, with Hoe Blades Only

New Universal No. 15, \$3.50

Double Wheel Hoe, with Hoe Blades Only

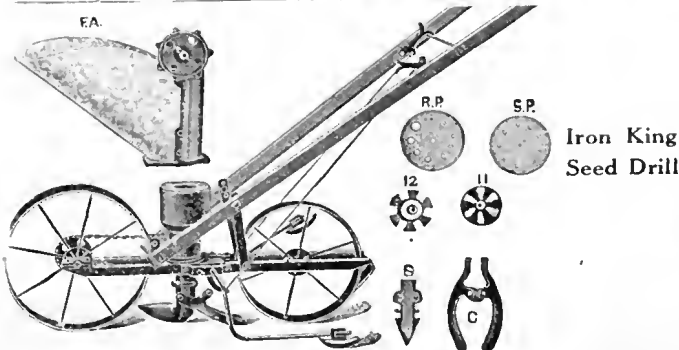
New Universal No. 24, \$6.00

Expansion Double Wheel Hoe, Cultivator, Rake and Plow

New Universal No. 26, \$7.50

High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow

Hand Wheel Plow No. 10, \$1.75



Iron King Seed Drill

The Iron King Seed Drill, \$8.00

With Fertilizer Attachment, \$10.00

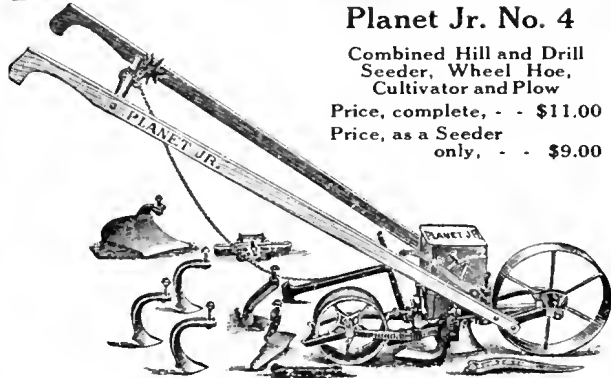
Planet Jr. Garden Tools

Space will permit our showing and describing only a few Planet Jr. Tools, but we will send to all who ask for it a fully illustrated catalogue of Planet Jr. Garden Implements. We deliver at depot or express office in Detroit, Mich., at prices given herein.

Planet Jr. No. 4

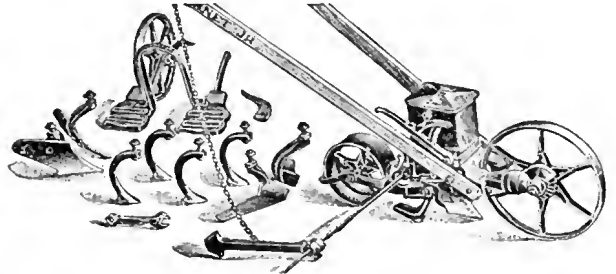
Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow

Price, complete, - - \$11.00
Price, as a Seeder only, - - \$9.00

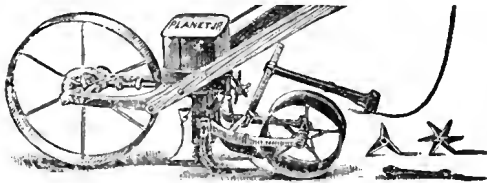


Planet Jr. No. 25, \$13.50

Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow



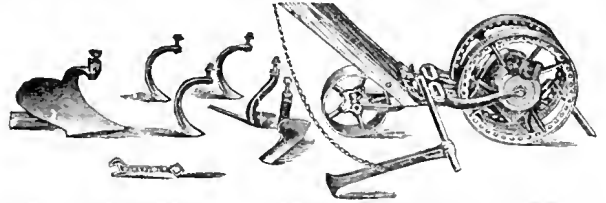
Planet Jr. No. 3 Hill and Drill Seeder, \$10.50



15 inch steel driving wheel. Hopper holds 3 qts

Planet Jr. No. 1, \$9.50

Combined Drill Seeder, Wheel Hoe, Cultivator and Plow



Planet Jr. No. 11, \$9.00

Double Wheel Hoe

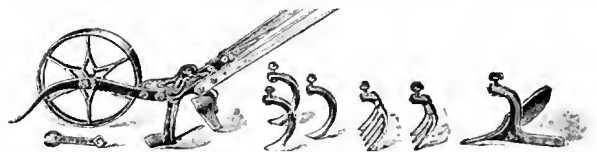
With 2 pairs hoes, 2 pairs cultivator teeth, 2 pairs rakes, 1 pair plows and 1 pair leaf lifters.



Planet Jr. No. 16, \$5.85

Single Wheel Hoe

With 1 pair hoes, 3 cultivator teeth, 2 rakes, 1 plow and 1 leaf guard.



Planet Jr. No. 2 Drill Seeder, \$7.50

Similar to No. 1 Combined Drill, but larger. Has no cultivating attachments.

Planet Jr. No. 5, \$13.00

Hill and Drill Seeder

Built on the same lines as No. 3 Drill, but larger.

Planet Jr. No. 12, \$7.00

Double Wheel Hoe

With 1 pair hoes, 2 pairs cultivator teeth, 1 pair plows and 1 pair leaf lifters.

Planet Jr. No. 13, \$4.75

Double Wheel Hoe

With 1 pair hoes only.

Planet Jr. No. 17, \$5.00

Single Wheel Hoe

With 1 pair hoes, 3 cultivator teeth and 1 plow.

Planet Jr. No. 18, \$3.50

Single Wheel Hoe

With 1 pair hoes only.

Planet Jr. No. 19, \$3.75

Single Wheel Hoe

With 1 large garden plow, 1 ten-inch sweep, 1 six-inch sweep, 1 four-inch cultivator tooth, 1 two-inch cultivator tooth.



The Christy Garden Weeder
Price 25 cts., Postpaid.



Hazeltine Hand Weeder and Scraper
Price 25 cts., Postpaid

Excelsior Weeding Hook



Price 20 cts., Postpaid.

Never-Break Solid Forged Steel Garden Trowel
6 Inches Long. Hardwood Handle. Superior in Style, Finish and Quality. Price 25 cts., Postpaid.

PLANT BED CLOTH

Medium Grade, 20 yards or over, 10 cents per yard } At purchaser's expense for transportation.
60 9

REFERENCE TABLES

| Number of plants to the acre at given distances | | Standard weights of various articles | |
|---|-------------------------|--------------------------------------|-------------------------|
| Dis. apart. No. plants. | Dis. apart. No. plants. | Dis. apart. No. plants. | Dis. apart. No. plants. |
| 12 x 1 in. 522,720 | 24 x 24 in. 10,800 | 36 x 36 in. 4,810 | 60 x 60 in. 1,743 |
| 12 x 3 " 174,240 | 30 x 1 " 209,088 | 42 x 12 " 12,146 | 8 x 1 Ft. 5,145 |
| 12 x 12 " 13,599 | 30 x 6 " 34,818 | 42 x 21 " 6,223 | 8 x 3 " 1,815 |
| 16 x 1 " 392,040 | 30 x 12 " 17,421 | 42 x 36 " 4,118 | 8 x 8 " 680 |
| 18 x 1 " 318,180 | 30 x 16 " 13,068 | 48 x 12 " 19,890 | 10 x 1 " 4,356 |
| 18 x 3 " 116,160 | 30 x 20 " 10,154 | 48 x 18 " 7,790 | 10 x 6 " 726 |
| 18 x 12 " 29,040 | 30 x 24 " 8,142 | 48 x 24 " 5,445 | 10 x 10 " 435 |
| 18 x 18 " 19,390 | 30 x 30 " 6,950 | 48 x 30 " 4,356 | 12 x 1 " 3,630 |
| 20 x 1 " 313,635 | 36 x 3 " 58,080 | 48 x 36 " 3,630 | 12 x 5 " 536 |
| 20 x 20 " 15,681 | 36 x 12 " 14,520 | 48 x 48 " 2,723 | 12 x 12 " 392 |
| 24 x 1 " 261,360 | 36 x 18 " 9,680 | 60 x 36 " 2,301 | 16 x 1 " 2,722 |
| 24 x 18 " 15,579 | 36 x 24 " 7,260 | 60 x 48 " 2,178 | 16 x 16 " 170 |

Quantity of seed requisite to produce a given number of plants and sow an acre

| Quantity per acre. | Quantity per acre. |
|---|--|
| Artichoke, 1 oz. to 500 plants. 6 oz. | Grass, Timothy ¼ bu. |
| Asparagus, 1 oz. to 800 plants | Orchard, Perennial Rye, and |
| Asparagus Roots 1000 to 7250 | Wool Meadow 2 " |
| Barley 2½ bu. | Hemp ½ " |
| Beans, dwarf, 1 pint to 100 ft. of drill 1 " | Horse Radish Roots 10000 to 15000 |
| Beans, pole, 1 pint to 100 hills ½ " | Kale, 1 oz. to 5,000 plants, or 200 feet of drill. |
| Beet, garden, 1 oz. to 100 feet of drill 7 lbs. | Kohl Rabi, ¼ oz. to 100 feet of drill 4 lbs. |
| Beet, Mangel, 1 oz. to 100 feet of drill 5 " | Leek, ¼ oz. to 100 feet of drill 4 " |
| Broccoli, 1 oz. to 5,000 plants 2 oz. | Lettuce, ¼ oz. to 100 feet of drill 3 " |
| Brussels Sprouts, 1 oz. to 5,000 plants. 2 " | Martynia, 1 oz. to 100 feet of drill 5 " |
| Buckwheat ½ bu. | Melon, Musk, 1 oz. to 100 hills 1 to 3 " |
| Caibage, 1 oz. to 5,000 plants | " Water, 4 oz. to 100 hills 1 to 4 " |
| Carrot, ¼ oz. to 100 feet of drill 2½ lbs. | Nasturtium, 2 oz. to 100 feet of drill 15 " |
| Cauliflower, 1 oz. to 5,000 plants | Okra, 1 oz. to 100 feet of drill 8 " |
| Celery, 1 oz. to 15,000 plants | Onion Seed, ¼ oz. to 100 ft. of drill 4 to 5 " |
| Chicory 4 lbs. | " for Sets 10 to 80 " |
| Clover, Alsike and White Dutch 6 " | Onion Sets, 1 quart to 40 feet of drill 8 bu. |
| " Alfalfa or Lucerne 15 to 25 " | Parsnip, ¼ oz. to 100 feet of drill 3 lbs. |
| " Crimson Trifol 10 to 15 " | Parsley, ¼ oz. to 100 feet of drill 3 " |
| " Mammoth and Medium 8 to 12 " | Peas, garden, 1 pint to 100 ft. of drill 1 to 3 bu |
| Collards, 1 oz. to 5,000 plants | field. 2 " |
| Corn, rice, (shelled) 2 qts. | Pepper, 1 oz. to 1,500 plants |
| Corn, sweet, ¼ pint to 100 hills 6 " | Pumpkin, ¼ quart to 100 hills 3 to 4 lbs. |
| Cress, ¼ oz. to 100 feet of drill 12 lbs. | Radish, ½ oz. to 100 ft. of drill 10 to 12 " |
| Cucumber, 1 oz. to 100 hills 1 to 3 " | Ruta Baga 2 to 4 " |
| Dill, ¼ oz. to 100 feet of drill 5 " | Rye 1 bu. |
| Egg Plant, 1 oz. to 2,000 plants 1 oz. | Sage in drills 1 to 5 lbs. |
| Endive, ¼ oz. to 100 feet of drill 4½ lbs. | Salsify, ¼ oz. to 100 feet of drill 8 " |
| Flax broadest ½ bu. | Spinach, ½ oz. to 100 feet of drill 8 " |
| Garlic, bulbs, 1 lb. to 10 feet of drill ½ bu. | Summer Savory ¼ " |
| Gourd, 2 oz. to 100 hills | Sunflower 8 " |
| Grass, Blue, Kentucky 2 bu. | Squash, Summer, 4 oz. to 100 hills 2 " |
| " Blue, English 1 " | " Winter, 8 oz. to 100 hills 2 " |
| " Hungarian and Millet ½ " | Tomato, 1 oz. to 4,500 plants |
| " Meadow Fescue 1 " | Tobacco, 1 oz. to 5,000 plants |
| " Mixed Lawn 3 to 5 " | Turnip, 1 oz. to 250 feet of drill 1 to 3 lbs |
| " Red Top, fancy clean 8 to 10 lbs. | Vetches, Spring 2 bu. |
| " Red Top, in chaff 20 to 28 " | Winter 1 to 1½ " |

We sell the following articles by weight

- Grass, Rhode Island Bent
- Creeping Bent
- Red Top (in chaff)
- " (cleaned)
- from chaff)
- Tall Meadow Oat
- Awnless Brome
- Orchard
- Hard Fescue
- Red or Creeping Fescue
- Tall Fescue
- Sheep's "
- Meadow Fescue or English Blue Grass
- Perennial Rye
- Wood Meadow
- Kentucky Blue

FOREIGN NAMES OF VEGETABLES AND HERBS

| ENGLISH | GERMAN | FRENCH | SPANISH | ITALIAN | DANISH-NORWEGIAN | POLISH |
|------------------|------------------|---------------------|----------------------|----------------------|------------------|------------------|
| Anise | Anis, Grün Anis. | Anis. | Anis, Matlalanga | Aniso, Anacio | Anis. | Anisz. |
| Artichoke | Artischoke | Artichaut | Alechofa | Articocca | Artiskok | Karczochy. |
| Asparagus | Spargel | Asperge | Esparrago | Sparagio | Asparagi | Szparagi. |
| Balm | Citronen Melisse | Melisse citronelle | Toronjil, Citronella | Melissa | Balsamurt | Balsam. |
| Basil | Basilikum | Basilic grand | Albaca | Basilico | Basilikum | Bazylia. |
| Beans | Bohnen | Haricots | Habichuela | Fagiolini | Boenner | Fasola. |
| Beet | Rübe | Betterave | Betmolacha | Barbabietola | Roedbede | Bmraki. |
| Borage | Boretisch | Bourrache | Borraja | Boragine | Borago | Boraz. |
| Broccoli | Spargelkohl | Chou Brocoli | Brocoli | Broccoli | Broccoli Kaul | Broklyn. |
| Brussels Sprouts | Rosenkohl | Chou de Bruxelles | Bretones de Bruselas | Cavolo di Brusselles | Rosenkaal | Latorvil. |
| Cabbage | Kopfkohl, Kraut | Chou pommé | Col repello | Cavolo cappuccio | Hoedkaal | Kapusta. |
| Cabbage, Savoy | Wirsing | Chou de Milan | Col de Milan | Cavolo di Milano | Savoykaal | Salandzka |
| | | | | | | Kapusta |
| Caraway | Feld-Kümmel | Cumin des prés | Comino | Carvi | Korve | Kminck. |
| Carrot | Carotten, Möhren | Carotte | Zanahoria | Carota | Gulerod | Marchew. |
| Cauliflower | Blumenkohl | Chou-fleur | Coliflor | Cavolfiore | Blomkaal | Kalfory. |
| Celery | Sellerie | Céleri | Apio | Sedano | Selleri | Selery. |
| Celoriac | Knoll-Sellerie | Céleri-rave | Apio-nabo | Sudano-rapa | Knuopselleri | Selery |
| | | | | | | (Korzen). |
| Chervil | Kerbel | Cerfenil | Perifollo | Cerfoglio | Kjoervel | Cz-chryzyc. |
| Chicory | Chicorienwurzel | Chicorée sauvage | Achicoria | Cicoria selvatica | Chicorie | Cykorya. |
| Coriander | Coriander | Coriandre | Culantro | Coriandolo | Coriander | Koledra. |
| Corn Salad | Feldsalat | Mâche | Canonigos | Valeriana | Vaarsalat | Ziarno Sdaty |
| Corn | Maiz | Maiz | Maiz | Maiz | Mais | Kukurydza. |
| Cress | Garten-Kresse | Cresson alenois | Mastherzo | Agretto | Kaise | Rzerzucha |
| Cress, Water | Brunnenkresse | Cresson de fontaine | Berro | Nasturtio aquatico | Broendkarse | Rzerzucha wodna. |
| Cucumber | Gurken | Coucombre | Cohombro | Cetriolo | Agrik | Ogorek. |
| Dandelion | Läwenzahn | Pissenlit | Diente de leon | Dente di leone | Loevetaid | Papawa. |
| Dill | Dill | Aneth | Eneldo | Aneto | Dil | Koper |
| Egg Plant | Eierpflanze | Aubergine | Berengena | Petronciano | Aegplante | Grszka milosna. |
| Endive, Curled | Endivien | Chicorée Endive | Endivia | Endivia | Endivie | Endywia. |
| Endive | | Chicorée-Scarole | | | | |
| | Broad Leaf | Escarol | Ronde | Escarolo | Endivia Scariola | |
| Fennel | Fenchel | Fenouil | Hinojo | Finochio | Fennikel | Koper. |
| Garlic | Knoblauch | Ail | Ajo | Aglio | Hvidloeg | Czosnek |
| Horehound | Andorn | Marrube blanc | Marrubio | Marrubio | | Marrubium. |

FOREIGN NAMES OF VEGETABLES AND HERBS—Continued

| ENGLISH | GERMAN | FRENCH | SPANISH | ITALIAN | DANISH-NORWEGIAN | POLISH |
|--------------------|-------------------------|------------------------|------------------------|----------------------|---------------------|---------------------|
| Horse Radish..... | Meer Rettig..... | Raifort sauvage..... | Taramago..... | Rafano..... | Peberrod..... | Cizrzan..... |
| Hyssop..... | Isop..... | Hyssope..... | Hisopo..... | Issopo..... | Isop..... | Hyzop..... |
| Kale..... | Blätterkohl..... | Chou vert..... | Breton, Berza..... | Cavolo verde..... | Groenkaal..... | Solanka..... |
| Kohl Rabi..... | Knoilkohl..... | Chou-rave..... | Col rabano..... | Cavolo rapa..... | Kaalrabi..... | Kularepa..... |
| Lavender..... | Lavendel..... | Lavende..... | Espliego..... | Lavanda..... | Lavendel..... | Lawenda..... |
| Leek..... | Porree, Lanch..... | Poireau..... | Puerro..... | Porro..... | Purre..... | Pory..... |
| Lettuce..... | Lattich, Kopfsalat..... | Laitue..... | Lechuga..... | Lattuga..... | Salat..... | Salata..... |
| Marjoram..... | Majoran..... | Marjolaine..... | Mejorana..... | Maggiorana..... | Merian..... | Majeranek..... |
| Melon..... | Melone..... | Melon..... | Melon..... | Popone..... | Melon..... | Melon..... |
| Melon, Water..... | Wasser-Melone..... | Melon d'eau..... | Sandia..... | Melone d'acqua..... | Chandmelon..... | Melon wodny..... |
| Mushroom..... | Schwamm..... | Champignon..... | Seta..... | Fungo pratajolo..... | Vandmignon..... | Grzyb..... |
| Nasturtium..... | Kapuciner Kresse..... | Capucine..... | Capuchina..... | Nasturtio..... | Blomkarse..... | Nastureya..... |
| Okra..... | Oehler..... | Gombaud..... | Gumbo..... | Oera..... | Hibiskus..... | Glinka..... |
| Onion..... | Zwiebel..... | Ognon..... | Cebolla..... | Cipollo..... | Roedloeg..... | biatozotta..... |
| Parsley..... | Petersilie..... | Persil..... | Perezil..... | Prezzemolo..... | Persille..... | Cebula..... |
| Parsnip..... | Pastinake..... | Panais..... | Chirivya..... | Pastinaca..... | Pastinak..... | Pietruszka..... |
| Peas..... | Erbsen..... | Pois..... | Guisante..... | Pisello..... | Erter..... | Pasternak..... |
| Pepper..... | Pfeffer..... | Piment..... | Pimento..... | Peperone..... | Spansk Peber..... | Groch..... |
| Pumpkin..... | Melonen-Kürbiss..... | Potiron..... | Calabaza totanera..... | Zucca..... | Spansk Peber..... | Pieprz..... |
| Radish..... | Radies..... | Radis..... | Rabanito..... | Ravanello..... | Græskar..... | Bania..... |
| Rhubarb..... | Rhabarber..... | Rhubarbe..... | Rubarbo..... | Rabarbaro..... | Reddik..... | Rzodkiew..... |
| Rosemary..... | Rosmarin..... | Romarin..... | Romero..... | Rosmarino..... | Rhabarber..... | Rubarbarum..... |
| Rue..... | Rute..... | Ruta..... | Ruda..... | Rosmarino..... | Rosmarin..... | Rozmaryn..... |
| Ruta Baga..... | Kohlrübe, Wrucken..... | Chou-navet..... | Col nabo, Nabicol..... | Cavolo navone..... | Rude..... | Rinta..... |
| Saffron..... | Safran..... | Safran..... | Azafran..... | Zafferano..... | Roe..... | Rue..... |
| Sage..... | Salbei..... | Sauge..... | Salvia..... | Salvia..... | Safran..... | Szafran..... |
| Salsify..... | Haferwurzeln..... | Salsifs..... | Salsif blanco..... | Sassefrica..... | Salvie..... | Szalwija..... |
| Sorrel..... | Sauerampfer..... | Oseille..... | Acedera..... | Acetosa..... | Havværod..... | Jurzynowa..... |
| Summer Savory..... | Bohnenkraut..... | Sarricte-annuelle..... | Ajedrea comun..... | Santoreggia..... | ostryga..... | Szczaw..... |
| Spinach..... | Spinat..... | Epinard..... | Espinaca..... | Spinaee..... | Sar..... | Caber..... |
| Squash..... | Kürbiss..... | Courge..... | Calabaza..... | Zucca..... | Syr..... | ogrodowy..... |
| Swiss Chard..... | Beiskohlr..... | Portée..... | Bleda..... | Bieta..... | Spinat..... | Szpinak..... |
| Thyme..... | Thymian..... | Thym..... | Tumillo..... | Timo..... | Squash-græskar..... | Miekurz..... |
| Tomato..... | Liebesapfel..... | Pomme d'Amour..... | Tomate..... | Pomo d'oro..... | Blad bede..... | Miekurz..... |
| Turnip..... | Weisse-Rübe..... | Navet..... | Nabo..... | Navone..... | Timian..... | Macierzanka..... |
| Wormwood..... | Wermuth..... | Absinthie..... | Ajenjo..... | Assenzio..... | Tomat..... | Pomidor..... |
| | | | | | Turnips..... | Rzepa, brukiew..... |
| | | | | | Maürt..... | Piotun..... |

BOOKS

CABBAGES, CAULIFLOWER, ETC., by C. L. ALLEN. Gives complete instructions from sowing the seed till harvest, including Brussels Sprouts, Kohl Rabi, Kale, Etc. 125 pages, fully illustrated. **Price 50c.**

GARDENING FOR PROFIT, by PETER HENDERSON. A guide to the successful culture of vegetables and small fruits for the market and family garden. The personal success of the author during his long career as a market gardener and the success of thousands from the time he first published his improved cultural methods indicate the popular estimate of this book. 375 pages, fully illustrated. **Price \$1.50**

GRASSES AND HOW TO GROW THEM, by PROF. THOS. SHAW. A practical discussion of the economic grasses of the United States and Canada viewed from the standpoint of the needs of the stockman and the farmer. Characteristics, adaptation to climate and soil, place in rotation, sowing, pasturing and harvesting are treated fully. **Price \$1.50**

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