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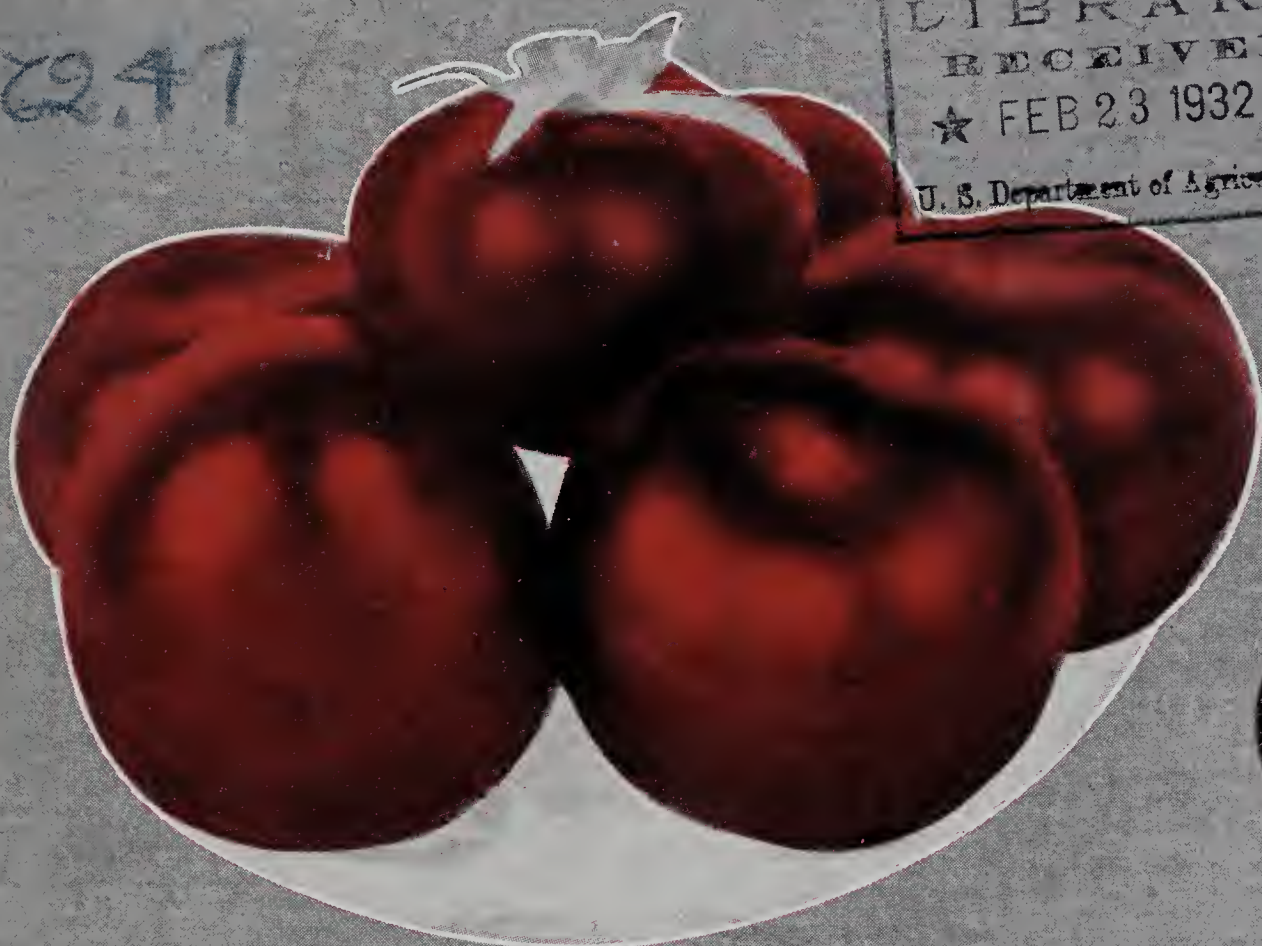
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Petersen's
TESTED
SEEDS

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U. S. Department of Agriculture.



BREAK O' DAY—95-Day Red
A New Wonderful Tomato (See Page 21).
Pkt., 15c; ½ oz., 35c; oz., 65c; ¼ lb., \$2.25.

Julius Petersen Company

709 Carroll Street

St. Louis, Missouri

Vegetable Seed Trials

FEB 13 1932



LAWN GRASS SEED

A beautiful lawn is the first step toward adornment of the house and not only adds to its value, but enhances its enjoyment. American climatic conditions are not the most favorable for grass seed germination, and success requires the observance of certain fundamentals. Without them a good part of the seed is likely to be wasted and lack of success is often attributed to the seed, whereas it was due to conditions which made germination impossible.

Pure seed of high germination is the first essential, and this we provide. Our lawn mixtures are cleaned and recleaned. Then our seeds are tested for germination to insure that they have in them the power to grow. Our blends for various purposes are composed of several grasses, each of which has a purpose; some to make a quick show, some to make a quick turf the first summer, a little clover to help enrich the soil and fill in bare spots and always Kentucky Blue Grass of the finest quality to take hold in its own way, to spread and finally to dominate in the permanent turf.

Pure seed such as we sell goes twice as far as the adulterated mixtures generally obtainable at bargain prices.

Loosen the soil in which a new lawn is to be made to a depth of at least five inches, and lighten it with humus or several inches of sand, compost, manure or wood ashes if it is heavy and inclined to bake. Apply fertilizer liberally, either sheep manure, bone meal or a commercial fertilizer.

Sow in the early spring when cool weather and ample rainfall will insure complete germination and a good start for the seedlings before hot, dry weather comes. If seeding must be delayed, special precautions must be taken to prevent the ground drying out. Early fall is a very desirable time to plant.

See that the seed is well covered. Rake it into a new seed bed and roll so that the soil is firmed over the seed. Where seed is sown on an old lawn always cover it with a top dressing of sand or soil and fertilizer. Seed thrown on the top of hard ground has no chance to grow and will merely wash off.

Quantity to Use—On new lawns, use 1 lb. for 300 square feet; 75 lbs. for one acre. To replenish lawns where turf is thin use half quantity.

PETERSEN'S LAWN GRASS SEED. Our Green Lawn Mixture consists of choice and carefully selected seeds of fancy grasses and will be found clear of weeds. Only those grasses of lasting value and hardiness, which once established need no reseeded for years, are contained in this mixture, and if a few simple rules in sowing and preparing of the land are followed, a beautiful and velvet-like lawn will be the result. **Price, lb. 35c; 3 lbs. 95c; 10 lbs. \$2.90.**

PETERSEN'S SHADY-LAWN GRASS SEED. Have you a lawn that is shaded by trees? Have you failed in your efforts to establish a grass patch there? If so, try a few pounds of our shady-lawn grass seed. It is just what you need in order to raise a patch of fine, close, compact, velvety grass, under such conditions. Ground that has been continuously shaded by trees often becomes sour, and it would be necessary before sowing grass seed to give it an application of air-slacked lime. Apply at the rate of 25 pounds to every 500 square feet. Thoroughly stir the surface of the soil before applying the lime. **Price, lb. 35c; 3 lbs. \$1.00; 10 lbs. \$3.10.**

KENTUCKY BLUE GRASS EXTRA FANCY. For lawns it has no superior, giving that peculiar rich shade of bluish-green so much admired in the best lawns; also, making a very close, velvety turf. **Price, lb. 30c; 3 lbs. 85c; 10 lbs. \$2.60.**

COMMERCIAL LAWN GRASS SEED. A good mixture of grasses that is less expensive than Petersen's Lawn Grass Seed. **Price, lb. 25c; 3 lbs. 70c; 10 lbs. \$2.00.**

WHITE OR DUTCH CLOVER. Extra Fancy Seed. **Price, lb. 65c; 5 lbs. \$3.00.**

Complete list of Grasses, see page 32.

IF BY MAIL CONSULT PARCEL POST RATES ON INSIDE BACK COVER

JULIUS PETERSEN COMPANY

709 Carroll Street

St. Louis, Missouri

A WORD TO OUR FRIENDS

It is with pleasure that we hand you our new 1932 catalog. It has been with the idea of offering you greater service that we have made up this catalog in a condensed way, giving you a catalog that is easy to order from and in which you will find the descriptive matter true-to-type. We make no flowery statements or try to induce you to buy "novelties" that have no merit.

We feel that our reputation of many years standing is at stake in every packet or bag of seed that we send out and consequently exert every effort to protect your interests and your crops by furnishing you only seeds of known high quality, true-to-name and of high germination. You will find the quality of our seeds for 1932 up to our usual high standard.

Your business in the past has made the growth of our business possible and it has been much appreciated and we hope to have your order for spring planting early.

Yours for better crops,

Julius Petersen Co.

MARKET GARDENERS and other large growers, requiring larger quantities of seeds than are here offered, are invited to write for special prices.

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OUR FREE OFFER

The most valuable premium ever sent out by any seedsman is the Petersen's Planting Guide, 32 pages, 5¼x7¾, sent with your order for seeds.

Entirely revised and containing up-to-the-minute cultures. Information on all new introductions in the seed and plant world. It is the most valuable guide ever written and you should not fail to get one. It is Free with an order.

With table of time of seeding all vegetables and farm seeds for most favorable growths.

Preparing garden ground, vegetable culture, planting tables, the fall vegetables garden, cold-frame vegetables, prevention of insects and plant diseases, hotbeds and cold-frames, care of the lawn, flowers from seed, etc. Price, 25 cents.

FREE with an order of garden seeds amounting to \$2.00, or an order of Farm seeds amounting to \$5.00, or a varied order amounting to \$3.00.

SEEDS BY MAIL. Please bear in mind that the prices given in this book do not include cost of postage, but packets and ounces will be sent to any address postpaid at prices named. For Peas, Beans and Corn, postage extra. Consult postal rates on third cover page.

While we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, express or implied, as to description, quality, productiveness, or any other matter, of any seeds, bulbs or plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms and conditions they must be returned at once, and the money that has been paid for same will be refunded.

PRICES

The prices named herein are those prevailing at the time this catalog goes to press, and are subject to change without notice, owing to market fluctuations.

We are members of the Merchants' Exchange and are also receivers and shippers of seeds, hay and grain in carload lots, and any orders or shipments entrusted to us will receive prompt and careful attention.

Parties buying large quantities of any one variety will be quoted special prices on application.

ATTENTION

We make a specialty of supplying Market Gardeners with the best strains of seeds that can be produced. We are always on the alert for a better strain, and if we find it we spare no expense in securing seed stock of it.

TERMS OF BUSINESS

Remittances should be made by Postoffice Money Order, Checks or Express Money Orders. Where it is not possible to obtain these, the letter should be registered. We cannot guarantee receipt of money sent in any other way.

All goods are offered subject to being unsold on receipt of order; and we reserve the right to advance prices without notice.

No charge is made for boxes or packing, nor for delivery to Freight Depots or Express Offices in St. Louis, Mo.

In filling out your order always give **Shipping Directions**, and write **Name** and **Address Distinctly** on each and every order.

LOW EXPRESS RATES ON PLANTS, BULBS AND SEEDS—From St. Louis on Account of our Central Location.

By our careful and thorough system of packing we **Guarantee Safe Delivery** of plants and perishable goods, when ordered to be sent by **Express**, and we always ship this way unless we have positive instructions to the contrary, and **when sent in any other way, are solely at purchaser's risk.**

TERMS OF GUARANTY

The seeds offered in this catalog have been carefully grown, selected, cleaned and tested for germination, and we believe them to be first class in every respect, but we cannot guarantee the crop as too many conditions enter into it; therefore, 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 to be returned at once, and if the money has been paid for them it will be refunded.

In compiling this catalog it has been our aim to furnish our customers a complete, concise and reliable Garden Manual.

Our list of varieties is very extensive and amply sufficient to meet every want in the line of seeds. We offer nothing which has not been tested and proven worthy of cultivation, and our friends can therefore absolutely depend on the value and purity of every variety we offer.

It is vitally important to every purchaser of seeds, either in large or small quantities, **to know** if the seeds will grow strongly and well, and whether they are pure and will produce true and perfect types of their kinds.

No experienced or practical gardener ever asks, "Where can I get my seeds cheapest?" but rather, "Where can I get the best and most reliable seeds?" and no one can afford to look at this matter in any other light.

In these times of high prices for all foodstuffs your back lot will keep you in fresh vegetables for six months and you can **CAN THE SURPLUS** for winter use.

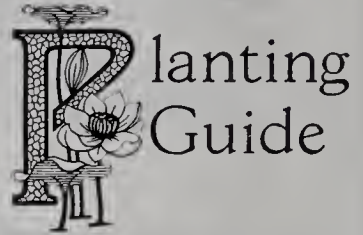
Plan your garden now and order your seeds while you have it in mind.

TESTED SEEDS

FOR PROVING BEFORE PLANTING every lot of seed that comes into our warehouse is subjected to a germination test. No test will warrant a guarantee that seeds will grow. Results must depend upon weather, soil conditions and cultivation. We do all we can to start the farm and garden right.

No Orders Sent C. O. D.

PETERSEN'S



*How-When and Where
To Plant Field-Garden
and Flower Seeds*

PRICE
25c

VEGETABLE SEEDS

ASPARAGUS

GERMAN—SPARGEL
One ounce for 60 feet of drill.

CULTURE.—Make bed about six feet wide with path two feet wide on each side. This will require six rows one foot apart, and a bed of that width 50 feet long will be ample for an ordinary family, requiring about one pound of seed. It will require about three years from the time of sowing until the bed is in full bearing; but once established, it is good for twenty years. The seed should be sown in drills one foot apart, and when the plants are 4 or 5 inches high they should be thinned out, so that the plants will be 9 inches apart from each other in all the rows. Great care must be taken the first year to keep down all weeds as soon as they appear, else they will choke up and destroy the young seedling asparagus. The deeper the soil, and the more manure used, the greater will be the crop.

MARY WASHINGTON RUST-RESISTANT—The Newest Creation in Asparagus. This strain is not only practically free from rust and other diseases, but it is larger and more vigorous. It is a dark green. Has a tight, pointed bud, and does not branch out until well beyond the market height. Makes a clean, straight growth. **Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

PALMETTO. Very early. An enormous yielder, very tender and disease-proof. It produces an abundance of large green stocks. **Pkt. 5c; oz. 10c; ¼ lb. 25c.**

ASPARAGUS ROOTS

A saving of one to two years is effected by planting roots. Those offered here are strong two-year-old roots, and the proper size for testing.

COLUMBIAN MAMMOTH WHITE. Doz. 35c; 100 \$1.75.

CONOVER'S COLOSSAL. Doz. 35c; 100 \$1.75. Postage extra, 25c per 100.

BEANS

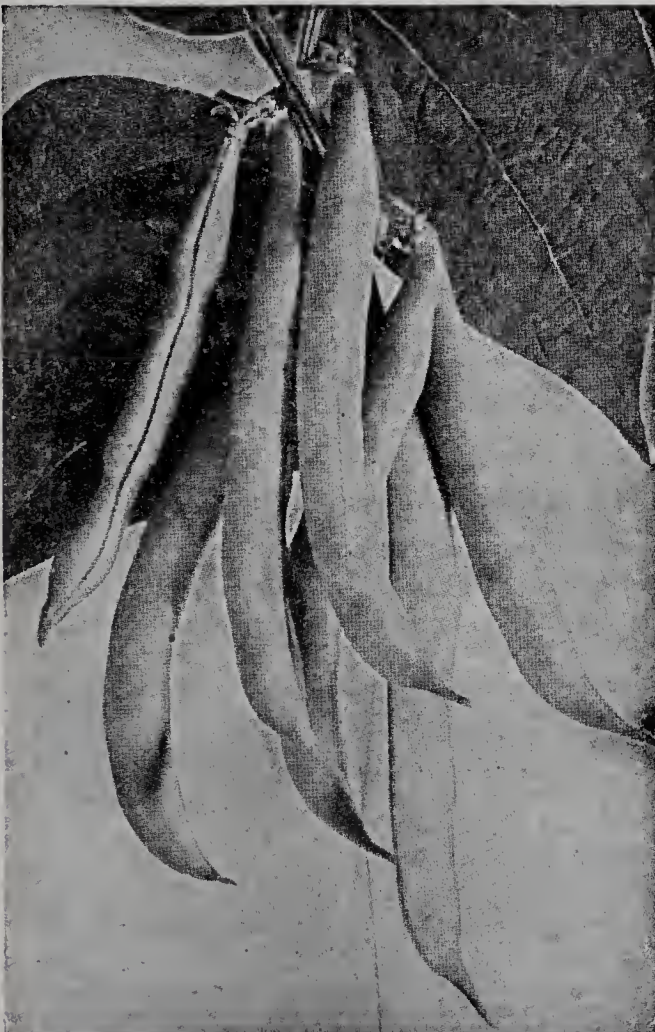
BEAN CULTURE (by Glen C. Sevey). A practical Treatise on the Production and Marketing of Beans. Illustrated. 144 pages. Cloth. **Price 85c, postpaid.**



BUSH BEANS---GREEN POD

GERMAN—BOHNEN—Average height of vine, 15 inches.

These mature for table 27 to 50 days from germination. 3 qts. to 100 yds. of row. One or two bu. to acre. Postage extra. Consult "Postal Directions," Inside Back Cover.



Black Wax Pencil Pod

CULTURE.—Sow when the apple is in bloom, and repeat as often as necessary until within 50 days of frost. In field culture, sow in drills 3 ft. apart. In garden culture, when the cultivation is done by hand, the rows may be 2 ft. Plant 2 in. deep and 6 in. apart.

BURPEE'S STRINGLESS GREEN POD. Handsomest and most prolific of the Stringless varieties. Pods very large, round and meaty and are very early, a sure cropper and an ideal bean for home and market use. We recommend that you plant this variety without fail. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.**

MAMMOTH STRINGLESS. Same as above, but a larger bean; not quite so early, but more showy. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.**

LONGFELLOW BEAN. Very handsome, straight, fleshy, green-podded, bush variety, with solid pods, averaging from six to seven inches in length and are delicious in flavor. One of the earliest varieties and is the gardener's favorite. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.**

EARLIEST IMPROVED RED VALENTINE. One of the best known green pod or picking varieties. Exceptionally early, pods being ready to pick 35 days after sowing. Light green and semi-transparent, a very fleshy, crisp and tender bean; seed long, of medium size, a desirable bean for every home garden. **Pkt. 10c; 1 lb. 25c; 5 lbs. 90c; 50 lbs. \$6.50.**

PETERSEN'S IMPROVED VALENTINE. Our improved strain of this famous old reliable green-podded bush bean is ready for market in thirty-three to thirty-five days. Has full, meaty, round pods which possess beauty, tenderness and superior flavor. The most popular snap-short bean and sells readily. Plants grow uniformly about fifteen inches in height and for earliness, productiveness and appetizing qualities it surpasses any other known bush variety. A great yielder. **Pkt. 10c; 1 lb. 25c; 5 lbs. 90c; 50 lbs. \$6.50.**

FULL MEASURE, SECOND EARLY. Color of seed, mahogany. Height of vine, 14 to 16 inches. Pods average six inches long, curved, absolutely stringless, green in color. Decidedly the best round-podded stringless bean in existence. Each pod contains six to seven beans. **1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.**

REFUGEE, LATE. Also known as the "1,000 to 1" by reason of its prolific character. Matures green pods for table use in 40 days. Vine, 14 in. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.**

If by mail, add postage

GREEN POD VARIETIES—Continued

- BOUNTIFUL BEANS.** A large, tender, stringless green pod, curved and flat. Remains long in bearing and is similar to the Long Six Weeks, but more hardy and productive. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00.**
- BLACK VALENTINE.** Green pods, black seed. Good bearer, quality extra fine. We recommend it for both the home and market garden. Resembling Red Valentine; a day or two earlier. **Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00.**
- NAVY or YANKEE BEANS.** Best crops are grown in rich soil, but beans do well in ordinary soil; hoe frequently when plants are dry, but never when wet. Plant one and one-half bushels to the acre in hills, same as corn, or in drills. **Pkt. 10c; 1 lb. 20c; 5 lbs. 90c.**

WAX BEANS

- BRITTLE WAX.** An excellent early, round-podded, stringless variety of highest quality. Pods 5 to 6 inches long and of a light yellow wax-like color. Seed white with brownish-black eye. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**
- DAVIS' WHITE WAX BEANS.** A very hardy and productive Snap Bean. Entirely rust-proof and handsome in appearance. Pods long, oval, clear, waxy white, entirely stringless. Give them a trial. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**
- GOLDEN WAX—IMPROVED.** Pods flat and long, nearly straight. Broad golden-yellow, very fleshy and wax-like. They cook quickly as snap beans, shell well when green. An ideal variety, very productive. Should be used while young. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**
- BLACK WAX PENCIL POD or PROLIFIC BLACK WAX.** Pods round, very early, very prolific, a golden-yellow and of fine flavor. Pods about five inches in length, stringless and meaty. Ready for table in about forty days. Twelve inches high. Our strain is exceptionally productive, very hardy, reliable and of the best quality. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**
- WARDWELL'S KIDNEY WAX.** About the earliest and most productive of all wax pods. A favorite with market gardeners. A rich golden-yellow, brittle and entirely stringless. Pods are long, broad and flat; very popular. Yields well, is extensively grown for the market and shipping purposes. Our stock is very choice. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**

POLE BEANS

CULTURE.—Pole beans are more sensitive to cold than the bush kinds, and should not be planted before the ground is warm—in this latitude, after May 1st. Set poles 6 to 8 feet long, 3 to 4 feet apart, in 4-foot rows and plant five or six beans 2 inches deep around each pole.

KENTUCKY WONDER, or OLD HOMESTEAD BEAN (Brown Seed). Without doubt the earliest and most productive Pole Bean and is very popular. It produces long, light green, showy pods in large clusters. Pods are often ten inches in length, round and very crisp. Can be grown with corn. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15; 25 lbs. \$4.75.**

ST. LOUIS PERFECTION. A fine green round pod, long and straight. Very prolific and of high quality. Beans are white and meaty and are excellent for market gardening and home use. Plant it. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25.**

KENTUCKY WONDER—IMPROVED WHITE. Earlier, hardier bean, of better appearance and far more stringless than the brown-seeded bean. The vines are vigorous, and very productive. Pods, medium green, round, very long and crisp. We heartily recommend this variety to market gardeners. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25.**

WHITE CREASEBACK. Valuable for its extreme earliness. Vines medium sized, wonderfully productive, bearing round, fleshy pods in clusters of from 4 to 12. Entirely stringless and of fine quality. The dry seed is pure white and excellent for winter use. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.15.**

LIMA BEANS—Dwarf Bush

GERMAN—BUTTERBOHNEN

Two weeks earlier than Pole Limas. Average height 15 in.

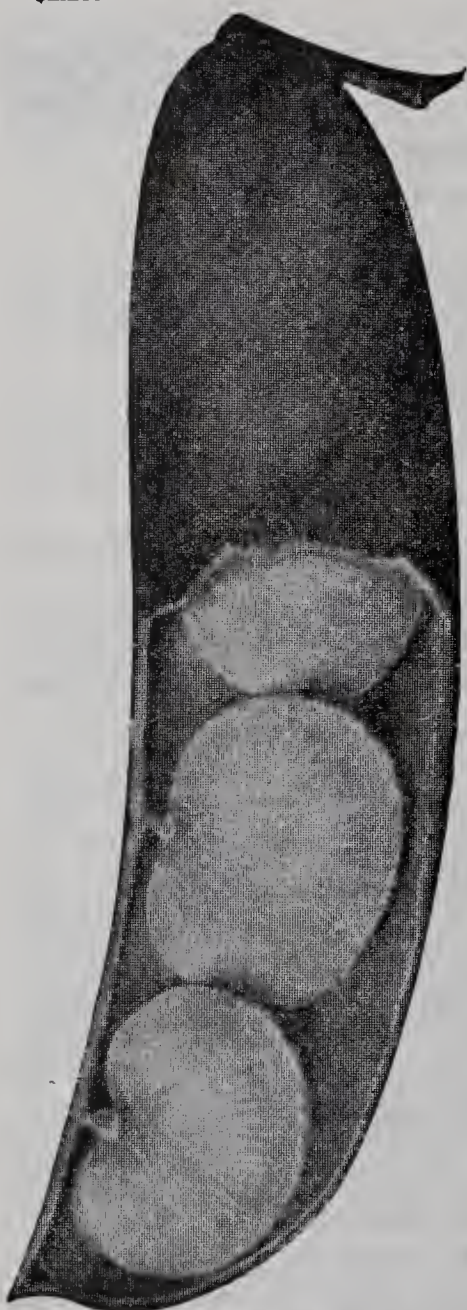
CULTURE.—Plant Bush Limas in rows 3 feet apart, dropping 3 beans 15 inches apart in row. Cover 1 inch. One pound will plant 100 feet.

BURPEE'S IMPROVED. An early maturing, large seeded Lima. The plants are vigorous and productive. Pods are medium green, very large, about 5 inches long, thick and usually contain four beans of largest size and of excellent quality. Seed very large and shows a greenish-white tinge. One of the best and most extensively used bush limas for the market as well as home garden. Single plants have yielded 250 pods. **Pkt. 10c; 1 lb. 35c; 5 lbs. \$1.50.**

HENDERSON'S SMALL. Valuable on account of its earliness and wonderful productiveness, continuing to grow until stopped by frost. Rich, buttery Limas and the true flavor. Pods short, flat, and contain three to five beans which are of delicious quality. **Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25.**

FORDHOOK. Height, 15 to 20 inches, very prolific, stands stiffly erect and bears well above the ground. Plants are exceptionally strong and vigorous and produce a bean about 5 inches long of the most delicious, melting and luscious flavor. **Pkt. 10c; 1 lb. 35c; 5 lbs. \$1.40.**

IF BY MAIL, ADD POSTAGE ON ALL BEANS



Burpee's Improved Lima

POLE LIMA BEANS

CULTURE.—Same as Pole Beans. One pound will plant 75 hills.

SMALL WHITE or SIEVA. Largely grown on account of its extreme earliness. The earliest of all Limas. Pods average from 2 to 4 inches in length, and contain about four seeds which are small but of excellent quality. Very productive and bear a long time. **Pkt. 10c; 1 lb. 35c; 5 lbs. \$1.45.**

EXTRA LARGE WHITE. This well-known large Pole Lima has tall and vigorous but slender vines. Pods are borne in clusters and are about 6 inches long. Beans extra large and thick and of the finest flavor. Vines grow so rapidly that they quickly cover the poles. It furnishes the largest green beans and is the most easily shelled of any of the Limas. **Pkt. 10c; 1 lb. 35c; 5 lbs. \$1.50.**

BEETS

GERMAN—ROTHE RUEBEN

Ready for table 40 to 75 days from sowing. Five oz. seed to 100 yds. of row. 5 to 6 pounds to acre in drills.

CULTURE.—The soil best suited is that rather light and thoroughly enriched with manure. For an early supply, sow in spring as soon as the ground becomes fit to work, in drills about 1 ft. apart and 2 in. deep. For main crop, sow the first week in May, and for winter use, sow in June.

NUTTING'S EARLY GEM. The finest early beet, either for growing under sash or outside. Perfectly smooth, handsome shape, dark color and of excellent quality. As early as any and will clean off the ground in two pullings. An excellent all-the-year-round beet. We do not recommend it for trenching as the top is rather small and light for this purpose. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.**

ECLIPSE. Very early, round, smooth, and dark red. Our strain is very select and one of the best for market. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.**

DETROIT DARK RED. We believe this the best beet for the market and home garden and on account of its uniformly deep rich color the most desirable for canning. Roots are medium size, nearly round, very smooth and of dark blood red color. Very crisp, tender and sweet, remaining so a long time. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 85c.**

EARLY BLOOD TURNIP. An extra selected stock of blood turnip, having larger, coarser top and root than the Detroit. Excellent for summer and autumn use. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.**

CROSBY'S EGYPTIAN. A very desirable table beet and is extremely early. Tops are small; the roots are a flattened globe shape and very smooth. An improvement over the well-known extra early Egyptian, being equally as early but more round in form. Flesh deep red, sweet and tender. Crosby's Egyptian is one of the best Beets to grow for the market. A MONEY MAKER. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.**

EGYPTIAN EARLY DARK RED. The best variety for forcing. Very early with small tops. Roots are very dark red, moderately thick and about two inches in diameter. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 75c.**

EDMAND'S EARLY BLOOD TURNIP. A very desirable second early market beet. Of round form, very smooth and of good marketable size. Skin and flesh deep blood red; extremely tender. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 85c.**

EARLY WONDER. A selection from Crosby's Egyptian though not so early as our strain of that variety. Roots very uniform, nearly globe-shaped, with small top and tap root; skin dark red, flesh deep blood red, with little zoning. Popular with market gardeners for early or late planting. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 90c.**

SWISS CHARD OR SPINACH BEET, see page 22.



Crosby's Egyptian Beet

FOR STOCK FEEDING

MANGEL-WURZEL MAMMOTH LONG RED. A large, long variety for stock feeding and an excellent food to increase the yield of milk. They grow much larger than the variety cultivated for table use and they require more room, and should be sown in drills about 2 ft. apart. Plants should be set 12 to 15 in. apart in the row, 4 to 6 lbs. to acre. **Pkt. 5c; oz. 10c; lb. 50c.**

BRUSSELS SPROUTS

GERMAN—ROSEN KOHL

One oz. will sow a bed 40 sq. ft. and produce about 3,000 plants.

A variety of the cabbage family, bearing upon its stem 50 to 100 buds, resembling miniature cabbage heads. The heads or buds, from 1 to 2 in. in diameter, form one of the most delicious garden vegetables, only equaled by cauliflower. Treat same as cabbage.

PARIS IMPROVED. A choice strain, each plant very productive of hundreds of buttons, size of pigeon eggs. Delicious in flavor and exceedingly tender. **Pkt. 10c; oz. 30c.**

DALKEITH. A fine dwarf variety, producing large, cream-white buttons. **Pkt. 10c; oz. 30c.**

CABBAGE

3 ozs. seed to 100 yds. of row. 1 oz. will produce 3,000 plants.

CABBAGES, CAULIFLOWER, ETC. (by C. L. Allen). Gives complete instructions from sowing the seed till harvest, including Brussels Sprouts, Kohl-Rabi, Kale, etc. Illustrated. 125 pages. Cloth. **Price 85c.**

CULTURE.—A few simple rules for planting and growing may help many to success where failure has heretofore been the result.

Don't have the soil in the seed bed as rich as the field to which the cabbage is transplanted, or the plants will be starved after transplanting.

Don't seed too thickly or force the growth too rapidly, or the plants will grow too tall, slim and tender, and the growth be more seriously checked by adverse conditions.

Root deeply to resist drought. When planting out, set to the first leaf stems. Supply plenty of manure.

For late or winter crops, the seed is sown in May and the plants set out in July.

To prevent the turnip-flea attacking the young plants, sprinkle slug-shot or tobacco dust over them as soon as they appear above the ground.



Copenhagen Market Cabbage

COPENHAGEN MARKET. Earliest large, round-headed cabbage offered today. As early as Early Jersey Wakefield, heads perfectly round and very solid. Very compact in habit and can be planted as close as Wakefield. Heads all mature at one time and will stand longer than the Wakefield before bursting. Heads average about eight pounds each. **Pkt. 10c; oz. 30c; ¼ lb. 85c.**

GOLDEN ACRE. This is an extra early strain of Copenhagen Market, maturing about ten days earlier. It will mature heads in eighty days from time of sowing, measuring nine inches in diameter, with a uniform weight of five pounds. Height of stalk is two inches and entire plant consists of thirteen leaves which allows close planting. **Pkt. 15c; oz. 40c; ¼ lb. \$1.25.**

ALL SEASON. Heads are extremely hard and solid, round, flattened on top and ready to market nearly as early as Early Summer, but considerably larger in size. A sure header and a favorite for market gardeners. (A good variety for kraut.) **Pkt. 10c; oz. 30c; ¼ lb. 85c.**

ST. LOUIS MARKET. Beyond doubt the best late cabbage; stands longer in the field without bursting; an excellent keeper and shipper. Never fails to make a crop, is very heavy, owing to its large size and solidity. It resists drought and continues growing long after other sorts have matured. Highly recommended. **We have the genuine St. Louis Market Cabbage. Pkt. 10c; oz. 30c; ¼ lb. 85c.**

MAMMOTH DARK RED. Best known red cabbage, much used for pickling; leaves red or purple. **Pkt. 10c; oz. 30c; ¼ lb. 80c.**

CHINESE IMPROVED CHIHLI. Often called Celery Cabbage on the market. Forms heads much like Cos lettuce. Is of a distinctive flavor, very mild and pleasant. Served as a salad like lettuce or cooked like asparagus. Sow latter part of July or early August. If grown for the market start in boxes and transplant like late cabbage. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

CHARLESTON LARGE WAKEFIELD. A strain in which the plant is larger and a little later than the Early Jersey Wakefield, the head being fully as solid, but less pointed and considerably larger. Popular with market gardeners. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

FOTTLER'S IMPROVED WHITE BRUNSWICK. Most popular and best second early cabbage in the market. Keeps well, both under the sun and during the winter. Heads large, flat and compact, solid and fine quality. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

EARLY DWARF FLAT DUTCH. A good second early variety, sure header, weighing 10 to 12 pounds each. Valuable as a market sort. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

PREMIUM LATE FLAT DUTCH OR DRUMHEAD. An old variety and very popular. Heads large, solid, very weighty and uniform. Used extensively for market and family. Plants are very hardy; an excellent keeper. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

PERFECTION DRUMHEAD SAVOY (GERMAN—WIRSING OR SAVOYER KOHL). The best of the Savoys for market or family use; heads large, with crisp, wrinkled leaves; it nearly approaches the cauliflower in fine flavor. **Pkt., 10c; oz. 35c; ¼ lb. \$1.00.**

WISCONSIN HOLLANDER. The "Yellow Rot" Disease-Resistant Sort. 120 days. The disease-resistant qualities of this cabbage enables growers to produce a crop of medium size, round or somewhat flattened heads of remarkable solidity and excellent keeping quality in locations where cabbage plants are affected by the "yellows." **Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$3.75.**

CABBAGE PLANTS

Plants should be set about 2½ feet apart each way.
April and May delivery.

	25	50	100
Wakefield.....	\$0.25	\$0.45	\$0.75
Copenhagen.....	.25	.45	.75
All Season.....	.25	.45	.75

By parcel post, add 10 cents per 100.

SLUG SHOT KILLS CABBAGE WORMS

1-pound carton with perforated top, 30c postpaid.
5-pound package, 60c; postpaid 75c.

CARROTS

German—Gelbe Rueben

One oz. will sow 100 ft. of drill, 3 lbs. required for an acre.

CULTURE.—Carrots require a very fine, pulverized soil to grow them to perfection. For field culture, sow in drills 3 ft. apart. Market gardeners sow in drills about 18 in. apart and cultivate by hand. For early crops, cover $\frac{1}{2}$ in. deep and thin to 6 in. apart in the rows. For late crop, cover $\frac{3}{4}$ in. deep and thin to 4 in. apart in the rows.

FRANKFORT. Enormous yielder. Stump rooted, handsome and deep golden yellow color. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

CHANTENAY. A half-long, stump-rooted sort, and very popular for bunching. It averages 6 to 7 inches in length, is broad at the neck and narrows gradually to a round, blunt base. The flesh is a rich, orange-red, fine-grained, tender, juicy, and remarkably free from core. An excellent early crop or main crop carrot and splendid for the home garden. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

DANVER'S HALF LONG—PETERSEN'S SELECT STRAIN. One of the most popular carrots in America. Planted on a wide scale by market gardeners, as the roots are of very fine quality, attractive appearance, and always find a ready sale everywhere. The handsome roots are of orange-scarlet color, measuring about six inches in length and tapering to a half-point or stump-root at the bottom. Remarkably sweet and tender, fine grained, and free from any woody fibre. It is a first-class carrot for all soils. Excellent to store for winter and a splendid shipper. Its yield is greater per acre than that of any other sort. **Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

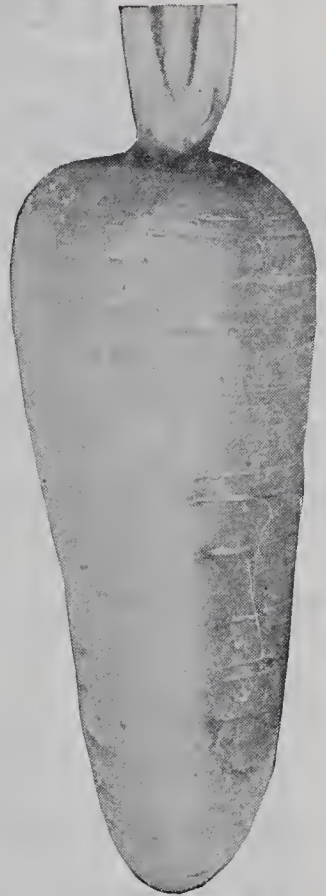
EARLY SCARLET HORN. Excellent for early planting out of doors. Tops small; smooth, blocky roots; skin orange red; 4 inches in length. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. \$1.10.**

RUBICAN IMPROVED. One of the finest stump rooted carrots of a rich orange shade, with excellent flavor and extreme sweetness. On account of its enormous productivity it is eagerly sought by the gardeners. **Pkt., 5c; oz. 15c; $\frac{1}{4}$ lb., 35c; lb. 90c.**

HALF LONG STUMP ROOTED. One of the finest carrots ever grown. An excellent market variety. Medium early and medium size. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

OX HEART OR GUERANDE. Especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. Root short, very thick and has a small tap root; flesh is bright orange color, fine-grained and of sweet flavor. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

IMPROVED LONG ORANGE. The best known and most largely cultivated of any carrot. The roots of this improved strain are very deep orange, long and comparatively thick, often 12 inches in length and three inches in diameter at the crown. A very popular variety and we have a big call for it, for we can recommend this variety as one of the best. Also used for stock feeding. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**



Danver's Half Long

CAULIFLOWER

GERMAN—BLUMENKOHL

One ounce will sow a bed 40 sq. ft. and produce about 3,000 plants.

CULTURE.—A most delicious vegetable and well repays attention to cultivate. It needs deep, rich soil and plenty of moisture. For early fall crops sow in May and transplant in June in rows 4 ft. apart and plants 2 ft. apart. Frequent hoeing and watering will keep up a rapid growth and produce splendid heads of the most delicate flavor. Cut before the flowers begin to open. Sow as late as June 20th for late crops, covering one-half inch deep.

EXTRA SELECTED DWARF EARLY ERFURT. The St. Louis market gardeners' favorite; large, compact form, very early and a sure header. An ideal forcing variety and a valuable sort for early market or home use. **Pkt. 15c; $\frac{1}{4}$ oz. 75c; oz. \$1.75.**

EARLY SNOWBALL. A favorite variety; produces fine white heads of good quality. The outer leaves are short, allowing the plants to be set closer together than most varieties, 18 to 20 in. being far enough apart. **Pkt. 15c; $\frac{1}{4}$ oz. 75c; oz. \$1.75.**

PETERSEN'S FAVORITE. A remarkably sure heading early Cauliflower. Of dwarf habit with short outside leaves. Heads are very beautiful, solid, snow-white, of medium to large size and find a ready sale at the highest prices everywhere. **Pkt. 20c; $\frac{1}{4}$ oz. 90c; oz. \$2.00.**

CAULIFLOWER PLANTS

Set two and one-half feet apart each way. April and May delivery.

EX. DWARF ERFURT. Doz. 15c; 4 doz. 50c. By parcel post, add 20c per 100.



Petersen's Favorite Cauliflower

CELERY

GERMAN—SELLERIE

Three ozs. of seed to 100 yds. of row, maturing in 110 to 150 days, according to season and location. One oz. will produce 7,000 plants.

CELERY CULTURE (By W. R. Beattie). A practical guide for beginners and a standard reference for experienced celery growers. Fully illustrated. 150 pages. **Price 85c, postpaid.**

CULTURE.—Sow seeds in a hotbed or cold frame. As soon as the plants are about 3 in. high transplant to a nicely prepared bed in the border, setting them 4 or 5 in. apart. When about 8 in. high, and fine, stocky plants, set them in the trenches. Earth up a little during the summer, keeping the leaf-stalks close together, so that the soil cannot get between them. Finish earthing up in autumn, and never hoe or earth up in moist weather, nor when the plants are moistened with dew.

DWARF GOLDEN SELF-BLANCHING. Without doubt the finest celery in cultivation; perfectly solid, of a fine, nutty flavor, attains a good size and when blanched is a handsome, golden-yellow color. **Pkt. 10c; oz. 45c; ¼ lb. \$1.60.**

DWARF GOLDEN HEART. Resembles the Half Dwarf White in habit of growth; very solid and the heart is of a golden-yellow when blanched; excellent keeper and fine for garden or market. **Pkt. 10c; oz. 25c; ¼ lb. 85c.**

GIANT PASCAL. A green-leaved variety developed from the Golden-Yellow Self-Blanching, and we recommend it as being the very best quality for fall and early winter use. Blanches to a beautiful yellowish-white color; very solid and crisp and of a fine, nutty flavor. The stalk is very thick. **Pkt. 10c; oz. 25c; ¼ lb. 85c.**

IMPROVED WHITE PLUME. Perhaps the most popular variety of celery; very early, ornamental and for quality surpassed by none; easily grown; does not require to be earthed up. **Pkt. 10c; oz. 30c; ¼ lb. 75c.**

FLAVORING CELERY. For flavoring only. **Oz. 10c; ¼ lb. 25c; 1 lb. 75c.**



Giant Pascal Celery

CELERIAC OR TURNIP-ROOTED CELERY

LARGE SMOOTH PRAGUE (German Knollen Sellerie). The largest and best variety. Round, smooth roots with very few side roots. A variety of celery with turnip-shaped roots, which are white-fleshed, comparatively tender, and have the flavor of celery stalks. Seed may be sown in the open ground in April and the young plants nursed in the same way as celery, but in planting out the ground is manured and dug, not trenched; plants are set in shallow drills 12 in. apart. **Pkt. 5c; oz. 20c; ¼ lb. 65c.**

Our strains of celery are unsurpassed for uniformity and trueness to type and will please the most critical celery growers. We especially recommend our stock of Golden Self-Blanching as a fine, uniform type.

CHICORY

WHITLOFF, CHICORY OR FRENCH ENDIVE. The famous Winter Salad. Seed is sown in spring and the parsnip-like roots stored in a cool room until wanted for growing in winter. Requires about one month to force the roots. Especially valuable to market gardeners as it can be marketed at premium prices at a time when no other green stuffs are offered. **Pkt. 10c; oz. 25c; ¼ lb. 75c.**

CORN SALAD

German—Rabinschen oder Feld Salat

Eight oz. of seed to 100 yds. of row

CULTURE.—Sow broadcast or in 10-in. rows in autumn for cutting at close of winter, or sow at close of winter for early spring use. When sown in autumn, cover very lightly with the lightest hay—the merest protection; more will be injurious.

BROAD-LEAVED (Large Seeded). Used as small salad throughout the winter and spring. Sow thickly in drills, cover slightly first of autumn and sprinkle with straw on the approach of severe weather. Height 4 in. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.**

CRESS OR PEPPERGRASS

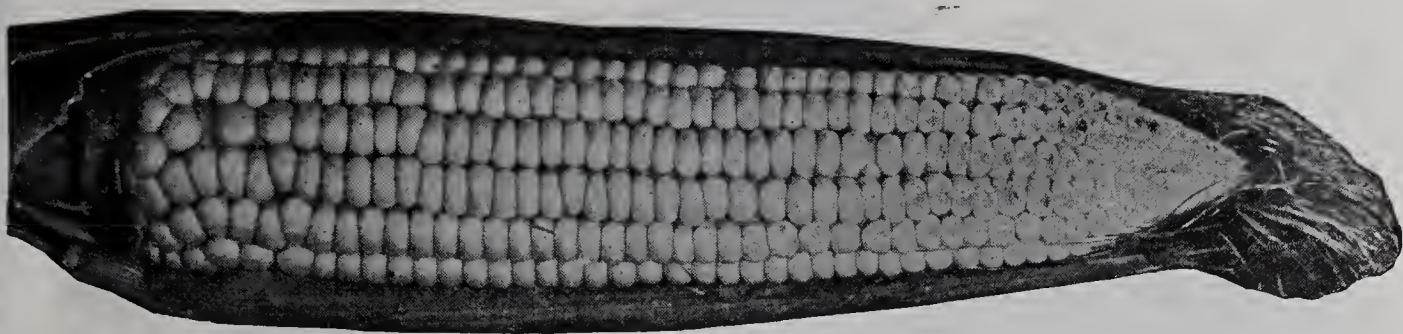
German—Kresse

One oz. will sow 16 sq. ft., or 150 ft. of drill.

CULTURE.—A popular salad, which should be sown early in the spring—very thickly in shallow drills—and at short intervals, for succession, as it soon runs to seed.

EXTRA CURLED. A small plant, having a fine pungent flavor, and used as a salad; may be cut two or three times. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.**

TRUE WATER CRESS.—Grows along the banks of ponds and streams, and is easily introduced. **Pkt. 10c; oz. 50c.**



Petersen's Early Market

SWEET CORN

GERMAN—ZUCKER ODER SUESZ KORN

IF BY MAIL, ADD 8c FOR FIRST QUART AND 2c FOR EACH SUCCEEDING QUART.

One quart to 150 hills; 3 gallons to the acre.

CULTURE.—Corn requires a good soil and a warm situation. Commence for first early by planting the early varieties about May 1st, and if a continuous supply is wanted all summer, make plantings about two weeks apart from May 1st until the last of July, first planting early varieties, then later ones. Plant in rows 3 ft. apart and make the hills about the same distance apart in rows. Five kernels in each hill are plenty. Cover about 1 in. deep for early and a little deeper for late. Thin to 3 plants in a hill.

ADAMS' EXTRA EARLY. Not a sugar corn, but largely grown for early use, especially in the South. Stalks about 4 ft. high, ears short, very full. **Pkt. 10c; qt. 25c; gal. 65c; bu. \$3.90.**

STOWELL'S EVERGREEN. Late. The standard for quality and best-known variety; favored alike by canners and market men; remains a long time in condition suitable for boiling. Ears 8 to 9 inches long, 16 to 18-rowed with a very deep, sweet grain. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

EARLY EVERGREEN. About 70 days to maturity. Broad, vigorous green foliage. Ears 8 inches long. Very deep, white grains. Desirable for the home garden. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

CROSBY'S EARLY. An old, popular variety; 12 and sometimes 14-rowed; grain thick and sweet. Ears 5½ to 6½ in. long, with short, nearly square grains, which are very white sweet and tender. Plants about 4½ ft. high. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

FIRST EARLY TABLE. The first table corn with a decent sized ear to come into the market. It is not strictly sugar corn, the grain being white and smooth, but if pulled at the proper time it is fairly sweet and sells remarkably well. Can be planted earlier than the shriveled grain sorts, as it will stand more cold, wet weather. **Pt. 30c; qt. 50c; gal. \$1.50; bu. \$9.25.**

EARLY MAYFLOWER. Large white cob and kernels. Ten days earlier than White Cory. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

COUNTRY GENTLEMAN. Late. Is different from any other sort; sometimes yields as many as 5 ears on a stalk; cob very small, with deep kernels of pearly whiteness. Considered the finest of all sweet corns. Quality is delicious. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

HOWLING MOB. An early large-eared sweet corn, producing two splendid ears to the stalk, covered with beautiful white kernels and averaging 7 to 9 inches. It is ready for use about five days later than First of All. Stalk grows 4 to 5 feet high. **Pkt. 10c; pt. 15c; qt. 25c; gal. 85c; bu. \$4.95.**

PETERSEN'S SUGAR. Many other sugar varieties are earlier, but we believe it is the best all-around corn and most desirable as a main crop in the family corn. Two ears on every stalk, often three and sometimes four. Stalks are 2 feet shorter than Evergreen and very close-jointed and sturdy, never blowing over. The ears, set low, are large and well filled. **Pkt. 10c; pt. 20c; qt. 35c; gal. \$1.00; bu. \$5.75.**

BARDEN'S WONDER BANTAM. An improvement on Golden Bantam, and matures from a week to ten days earlier. Matchless sweetness and all the qualities of looks and taste. Ears 8-rowed, 8 to 10 inches long. Critical market and home gardeners and canners have long been looking for a Bantam sweet corn with these improved qualities, and buttery flavor. **Pkt. 10c; ½ lb. 20c; lb. 30c; 10 lbs. \$2.10.**

WHIPPLE'S EARLY WHITE. A very early variety with the deep grain of the Evergreen type. About 5 days earlier than Early Crosby. Stalks 6 feet high; ears produced 1½ feet from the ground, often two to the stalk, are 8 inches long, rather "blocky" in form, 18 and often 20-rowed, filled to the end with rather narrow, deep, wedge-shaped grains of pearly whiteness and high sugar content. **Pkt. 10c; qt. 25c; gal. 85c; bu. \$4.95.**

POP CORN

Four pounds will plant an acre in rows.

WHITE RICE. Selected seed. **1 lb. 25c, postpaid.**

JAPANESE HULLLESS. Excellent popper. **1 lb. 25c, postpaid.**

QUEEN'S GOLDEN. Selected seed. **1 lb. 25c, postpaid.**

SOUTH AMERICAN. Largest popping yellow corn known. **1 lb. 35c, postpaid.**



Early Fortune

CUCUMBER

German—Gurke

Four ounces of seed to 100 yards of row; 3 pounds to the acre.

CULTURE.—For earliest use, sow the seed in the hotbed or greenhouse in February or March, in warm loam where the temperature is about 90 degrees; cover one-half inch deep, and when the plants are of fair size, transplant in hills (made in greenhouse), 4 plants in a hill, so that when the weather permits the whole hill can be moved to the open ground. Plant for general use in the open ground about June 1st, in hills 6 feet apart each way and thin to 3 plants to a hill. A sprinkling of Slug-Shot will keep off the striped bug.

JAPANESE CLIMBING. Fruit about ten inches long, thick and fine flavor. Skin dark green, flesh pure white; can be grown on trellises and fences. **Pkt. 10c; oz. 15c; ¼ lb. 50c.**

BOSTON PICKLING. Fruit short, smooth and pointed at each end; color bright green; a great yielder; one of the best sorts for pickling. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.15.**

EARLY FORTUNE. The finest type of White Spine yet produced. Early, very productive and disease-resistant; fruits nine inches long, slightly tapering; flesh white, very firm and crisp, with very few seeds; color rich, dark green. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

EARLY GREEN CLUSTER. An early and very productive variety. Extensively used for a pickling cucumber as well as for slicing. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

GHERKIN, or BURR CUCUMBER. A small, round prickly cucumber. Makes excellent pickles. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

EVERGREEN WHITE SPINE. Superior to any other for the main crop. Certainly one of the handsomest as well as one of the most delicious varieties. Gardeners are enthusiastic in praise of its hardy growing qualities, as well as of its extreme earliness. Grows from 10 to 14 inches in length. For hotels and restaurants, as well as the home table, it cannot be surpassed. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. 95c.**

FORDHOOK FAMOUS. One of the best of the long, green type. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

JERSEY PICKLING. The gardener's friend. Quite pointed at both ends. Intermediate between long and short green; makes hard, brittle pickles. Very early. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.15.**

SNOW'S PERFECTED PICKLE. The most symmetrical, best formed and productive pickling sort; early, small, square ended and deep green; select strain; 6 x 2¾ in. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.**

IMPROVED LONG GREEN TURKEY. Vines very vigorous and productive, forming fruit fit for the table, nearly as early as the shorter sorts; fruit about 12 in. long, firm and crisp. Excellent for pickles; the mature fruits are also sometimes 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; ¼ lb. 40c; 1 lb. \$1.25.**

DAVIS' PERFECT. An extra long, dark green type of White Spine; retains its color and good qualities long after being pickled; fruit is smooth and tapering at both ends; flesh crisp, solid, almost seedless. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

SHORT PROLIFIC PICKLE. An abundant bearer, highly recommended for pickles, for which it is used by many of the most famous pickling establishments. **Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

DANDELION

GERMAN—LOEWENZAHN

One oz. will sow 100 ft. of drill.

CULTURE.—The dandelion resembles the endive and affords one of the earliest as well as one of the most healthful greens. The roots, after being dried, are used extensively as a substitute for coffee. Sow as early as the weather will permit, in rich soil in rows 12 in. apart and ¼ in. deep. Thin out to 2 or 3 in. apart in the rows; by so doing the roots will be larger and a great amount of time will be saved the next spring in trimming and gathering the crop. One pound per acre is sufficient.

Cultivated for spring greens. Larger in size and thickness of leaf and finer in flavor than the common. **Pkt. 10c; oz. 50c.**



Black Beauty

DILL

An annual plant of aromatic odor; used for seasoning. Largely used for making dill pickles. Also possesses medicinal properties. **Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 75c.**

EGGPLANT

GERMAN—EIERPFLANZE

One oz. will produce 1,000 plants.

CULTURE.—Will thrive well in any garden soil, but will repay good treatment. The seeds should be sown in hotbed or warm greenhouse in March or April, and when about an inch high potted in 2-in. pots. Plant out about June 1st, 2½ ft. apart. If no hotbed is at hand, they can be grown in any light room where the temperature will average 75 degrees.

NEW YORK IMPROVED PURPLE. Leading market variety, and undoubtedly the best for size, quality and productiveness. **Pkt. 10c; oz. 40c.**

NEW YORK IMPROVED PURPLE SPINELESS. Similar to New York Improved Purple, except that it is entirely free from spines. **Pkt. 10c; oz. 50c.**

BLACK BEAUTY. Earlier and nearly as large as New York Purple; fruit very dark purple, which color it holds for a long time. **Pkt. 10c; oz. 40c.**

ENDIVE

GERMAN—ENDIVIEN

One oz. will sow 20 sq. ft.

CULTURE.—One of the best salads for fall or winter use. Sow in the spring as soon as the earth is free from frost and repeat to within 60 days of autumn frost. Drill in rows 2 ft. and thin the plants to 8 in. apart. Tie up the loose leaves or cover with pots to blanch for salad. Valuable for salads and highly decorative.

LARGE GREEN CURLED. A large, strong-growing endive, producing beautifully curled dark green leaves; crisp, tender and blanches cream white. **Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25.**

BROAD-LEAVED BATAVIAN. Heads are large, leaves broad and thick, and used for flavoring soups; when blanched the inner leaves make a fine salad. **Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25.**



Dwarf Green Kale

GARLIC

Per lb. 65c postpaid.

HERB SEEDS

CULTURE.—Sow early in spring in shallow drills, 1 foot apart; when up a few inches thin out or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly on a floor to dry. Those marked with a * are perennial.

	Pkt.	Oz.
Anise. For flavoring.....	\$.10	\$.25
Basil, Sweet. Used in soups.....	.10	.30
Borage. Excellent for bees.....	.10	.25
Caraway. Used in bread, etc.....	.10	.20
Corlander. Very aromatic.....	.10	.15
Dill. For dill pickles.....	.10	.15
* Fennel, Sweet. For sauces.....	.10	.25
* Horehound. For coughs.....	.10	.40
* Lavender. For perfume.....	.10	.50
* Peppermint. For flavoring.....	.25	.90
* Rosemary. For seasoning.....	.15	.75
Saffron. For flavoring and coloring.....	.10	.40
* Sage. For seasoning fowls, etc.....	.10	.25
* Savory, Summer. For flavoring.....	.10	.20
* Sweet Marjoram. For flavoring.....	.10	.30
Thyme. For soups, also for tea for nervous people.....	.10	
* Wormwood. Used medicinally.....	.10	.30

HORSERADISH ROOTS

In order to produce good marketable horseradish roots in one season, plant small pieces of root from six to eight inches in length in good rich soil. Cover the top of the root with two inches of ground. Hardy and may be left in the ground until spring before digging. **30c per doz.; \$1.25 per 100 postpaid; not postpaid \$8.00 per 1000.**



Early White Vienna Kohl-Rabi

KALE OR BORECOLE

GERMAN—KOHLE

One oz. will produce 2,000 plants; 4 lbs. to the acre.

CULTURE.—Sow from the middle of April in hotbeds; transplant in June and treat the same as cabbage. Of all the cabbage tribe, this is the most tender and delicate, and much more would be grown if its excellent qualities were generally known. Drill in rows 2 ½ ft. and thin to 6 to 10 in. The varieties are extremely hardy.

BLUE SCOTCH. Similar to Dwarf Green Curled Scotch except that it is of a bluish green color instead of a bright green, and is of dwarfer habit. The stem is so short that it rests directly on the ground, which protects it from cold. It is harder than Green Curled Scotch and will pass through the winter unharmed. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. 85c.**

GERMAN DWARF EXTRA CURLED. Leaves curled on edges; hardy, standing most rigorous winters. Blue leaved. 4 to 6 inches. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 75c.**

DWARF GREEN CURLED SCOTCH. The plant is low and compact, with large bright green leaves, curled, cut and crimped so that the whole plant resembles a bunch of moss. This variety is quite hardy, but will not stand in a temperature below zero. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c.**

TALL CURLED SCOTCH. Grows about 18 in. in height and spreads, sometimes reaching 3 ft. in diameter. Desirable for winter use. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 95c.**

DWARF CURLED SLOW SEEDER. A sort slow to shoot, and for that reason very profitable both to the market and private gardener. Very productive in leaves; blue-green and curled on edges. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.**

SIBERIAN. Very hardy; foliage flat, broad, blue. Stands the winter. **Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 65c.**

KOHL-RABI

GERMAN—KOHLE-RABI

One ounce of seed to 100 yards of row or 2,000 plants.

CULTURE.—This plant belongs to the turnip family, but is more hardy and nutritious. Should be sown in 3-foot rows in June and plants thinned out to 8 to 10 inches in rows.

PURPLE VIENNA. A little later than the White; color bluish-purple. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.00.**

EARLY WHITE VIENNA. Very handsome, extremely early variety with small tops. The bulbs are of medium size, nearly white and of the best quality. Makes a delicious cabbage-flavored dish and are of best quality for the table when about two inches in diameter. **Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.00.**

KOHL-RABI PLANTS

Varieties above mentioned.....	25	50	100
By parcel post, add 20c per 100.	\$0.25	\$0.45	\$0.75

LETTUCE

GERMAN—SALAT

One ounce will produce 3,000 plants; 3 pounds to the acre.

CULTURE.—To have fine lettuce early in the spring, sow in hotbed from commencement to middle of autumn. During winter, protect the plants by a box covered with a window or other sash, or with litter. Early in spring transplant some into rich ground; the others force under the sash. Or, in early spring, sow in hotbed and transplant. Later sow in drills when the cherry is in bloom; when up a few inches, thin out, leaving plants at proper distances.

MAMMOTH BLACK-SEEDED BUTTER. Very large, tender, heading sort, with smooth, light green leaves. A good variety for spring and autumn. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

ALL-THE-YEAR-ROUND. Hardy, medium-sized variety with firm heads; not inclined to run to seed. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

ROMAINE, COS, or CELERY LETTUCE; GIANT WHITE. This beautiful lettuce is universally grown in Europe. As a solid lettuce it has no equal. Of large size, perfect form, self-folding, very crisp and hardly ever runs to seed. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

KING OF THE MARKET. A very large, robust-growing variety, very slow to run to seed and a sure-header under most trying conditions. Best for early spring or fall use as it will not stand extreme hot weather. The interior is beautifully blanched creamy-white, crisp, tender and delicious. **Oz. 20c; ¼ lb. 60c; lb. \$1.50.**

SIMPSON EARLY CURLLED (White-Seeded). A leading early, loose-heading variety of fairly large size; leaves broad, crumpled and well frilled at the edges; color light green; quality good. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

BLACK-SEEDED SIMPSON. Does not form a head; leaves are delicate golden-yellow; superior for forcing or out-of-door planting. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

GRAND RAPIDS (Selected Stock) (B. S.). The favorite loose-leaved forcing lettuce, and does well in the North for early planting outside. Leaves short, spatulate in shape, excessively blistered and crumpled, and the border heavily fringed; color very light green, with no trace of brown. A most handsome and attractive lettuce of fair quality. Our stock of Grand Rapids is unsurpassed. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

PETERSEN'S IMPROVED BUTTER LETTUCE. This fine new lettuce is not only very early and hardy, withstanding the early summer heat splendidly, but has the additional advantage of not running to seed for at least two weeks after the heads are fully matured. The heads are large and round and extremely solid. Very tender and crisp with waxy, cream-colored heart, leaves of extra fine quality and succulence. Strikingly handsome and of superior table quality. A valuable sort and is bound to win the favor of all who plant and cultivate it, either for home or market use. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

BIG 16. A wonderfully large heading variety. Color light green and a gardener's favorite. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

HARDY GREEN WINTER. Forms solid head; one of the best winter varieties; very hardy. **Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

OAK LEAF. Leaves resemble the oak leaf. Very tender and desirable. **Pkt. 5c; oz. 20c; ¼ lb. 65c; 1 lb. \$1.75.**

BIG BOSTON. A most desirable large variety. Very popular for outdoor culture. A compact, large heading forcing sort for cold-frames. May be grown in the open ground for summer and fall use or in frames for use in early spring, as well as for forcing in the greenhouse during the winter. Exceedingly handsome. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.**

ST. LOUIS BLACK-SEEDED FORCING. Absolutely the best forcing lettuce, and a favorite among gardeners. Forms very compact, solid heads of excellent quality and fine appearance. Can also be used for early planting outdoors. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.**

ST. LOUIS MARKET. A fine summer variety. Large, hard and crisp heads; excellent and leading variety with St. Louis gardeners. Can also be used for forcing; stands summer well. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.**

EARLY PRIZEHEAD. This old standard variety is still the best of the large, thin-leaved, clustering sorts for the home garden, but it is not a good kind to ship long distance, as the leaves are so tender that they are easily spoiled in handling. Leaves very large, crimped, bright green, tinged with brownish-red and are exceedingly tender, crisp and sweet, forming a large, loose head. **Pkt. 5c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.**

WONDERFUL or NEW YORK. A large, smooth-leaved late variety, dark green. Outer leaves deep metallic green. When young, heads are conical, when older heads become round; of high reputation. **Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.00.**

ICEBERG. A large, crisp lettuce, always tender, stands hot weather remarkably well; give each head 14 inches in the row. Color light green, lightly tinged with brown. **Pkt. 5c; oz. 20c; ¼ lb. 65c; lb. \$1.75.**

BROWN DUTCH WINTER. Leaves large, thick, green, tinged with brown; forms large, solid heads; exceedingly hardy. **Pkt. 5c; oz. 20c; ¼ lb. 65c; 1 lb. \$1.75.**



Petersen's Improved Butter Lettuce

LEEK

GERMAN—LAUCH

One ounce will plant 200 feet of drill; 4 pounds to the acre.

CULTURE.—Leek is very hardy and very easily cultivated. Sow early in spring in rich soil one-half inch deep, in drills 1 foot apart. When 6 inches high, transplant in rows 10 inches apart each way, as deep as possible, so that the neck, being covered, may be blanched.

LARGE LONDON OR AMERICAN FLAG. The oldest and best known and most largely grown variety. **Pkt. 5c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.**

MUSHROOM SPAWN

CULTURE.—Mushrooms may be grown in a warm cellar or shed in winter, or in the open air in summer. Take partially dry, fresh horse manure and lay it in a heap to ferment; turn and mix it well every few days, and when well and equally fermented—which will be in from 10 to 15 days—it may be made into a bed 4 feet wide and about 12 to 18 inches deep, mixing it well together and beating or treading it firmly. As soon as the temperature of the bed falls from 75 to 50 degrees the spawn may be inserted in pieces about the size of a walnut, about 2 inches deep and 6 inches apart. Cover with loamy soil about 2 inches deep and beat it down evenly and firmly. Water when necessary with lukewarm water, and expect mushrooms in from 4 to 6 weeks. A brick is sufficient to spawn 10 feet of bed.

ENGLISH. In bricks: **25c each; postpaid 35c; 5 bricks \$1.00; postpaid \$1.25.** Write for prices on larger quantities.



Edwards' New Perfecto

MUSKMELON

GERMAN—ZUCKERMELONE

One ounce to 60 hills; 3 pounds to acre.

CULTURE.—A rich, deep, sandy soil well worked and highly manured is of the utmost importance. Plant when all danger of frost is over, in hills 5 to 6 feet apart each way; scatter a dozen seeds to a hill and afterwards thin out to 3 or 4 plants. Cantaloupes and cucumbers are often destroyed by lice and should be well sprinkled with slug shot when the plants appear. When they have 4 leaves, pinch off the end of the main shoot, which will cause lateral branches to put forth sooner and strengthen the growth of the vines.

HEARTS OF GOLD. Extremely thick, sweet orange flesh. 70 days. An ideal basket and crate melon of medium size, round, heavily netted, flesh very thick, of rich orange color, handsome appearance and of the sweetest flavor. Extremely resistant to rust, remarkably hardy and withstands heavier frosts than other varieties. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

HONEY DEW. The delicious honey-like flavor of this new melon has met with instantaneous public favor and created a sensation wherever used. The fruit is of large size, weighing eight to ten pounds each. The rind is perfectly smooth and cream-colored. The flesh is from one and one-half to two inches thick, light green in color, very sweet and juicy. **Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.**

BURRELL'S GEM. An orange-fleshed Rocky Ford. Fine-grained and spicy. Average weight, 2¼ lbs. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.10.**

HACKENSACK or TURK'S CAP. Fruit large, round and flattened at the ends, deeply ribbed and heavily netted; flesh green, thick and of very fine flavor. Fine market variety. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.10.**

HALE'S BEST. 70 days. This is a new variety and originated in the Imperial Valley in California. It is a remarkably early melon of very fine flavor. The salmon flesh is exceptionally thick with very small seed cavity. Fruits are oval, about 8 by 4½ inches, with heavy netting and ribs hardly apparent. Will be of real value as an early shipping melon. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

HONEY BALL. A miniature Honey Dew, yellowish-white rind, lightly covered with a finely traced netting and with silvery-green flesh; earlier and about the size of Rocky Ford. **Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.**

OSAGE or MILLER'S CREAM. Does well on heavy soils. Of medium size, nearly round, with skin ribbed and somewhat netted. Flesh salmon-colored, of luscious flavor. Prolific bearer. Matures its handsome distinct melons in 75 days. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.10.**

EDWARDS' NEW PERFECTO. A new variety developed from Eden Gem by Mr. J. R. Edwards, and the best of the Rocky Ford Class. Fruit very uniform in size, nearly round and densely covered with a hard gray netting; flesh very thick and of a beautiful salmon color, shading into green as it nears the rind. Perfecto has the deepest flesh, smallest seed cells and more salmon-colored flesh than any other type of Rocky Ford shipping melon. Recommended for its hardiness, prolificness, deep flesh and excellent eating and shipping qualities. **Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**

ROCKY FORD. 70 days. A cantaloupe of great celebrity, grown at Rocky Ford, Colorado. Slightly pointed at both ends. Small in size, but of very superior flavor; rind well ribbed; flesh green with a line of gold just beneath the skin. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.**

POLLOCK'S NO. 10-25. Best described as a salmon-tinted Rocky Ford, being identical in every way except color of flesh, which is a light salmon in color at the center, shading into a light green midway to the rind. It is rapidly superseding the green-fleshed variety in the large melon-growing districts of the South and West. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.**

ST. LOUIS MARKET. One of the sweetest and most delicious melons grown. Flesh is green. A great favorite with St. Louis melon growers. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.**

BANANA MUSKMELON. Of banana shape and banana flavor and is relished by anyone who is fond of bananas. Commands the highest price. Attains a length of 18 to 30 inches and a diameter of 2 to 4 inches. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.**



WATERMELON

GERMAN—WASSERMELONE

Four oz. to 60 hills.

CULTURE.—Watermelons are cultivated in hills, which should be 6 to 8 ft. apart each way, and composed of light, moderately rich soil. The hill should be dug about 2 ft. square, 18 inches deep and $\frac{1}{2}$ filled with well-rotted manure, which must be thoroughly mixed with the soil. Plant in May, 10 seeds to a hill, and when the plants are well up, thin out to 3. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting.

Kleckley's Sweet Watermelon

HALBERT HONEY. This large melon is as handsome in color as the Kleckley Sweets, but more regular in form, and much more productive, 20 inches long; color of rind, a clear, glossy, deep green. The flesh is beautiful crimson. Melon matures in 85 days. Excellent for home and local markets. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

EXCEL. This is the largest shipping melon yet produced, of good flavor, strong tough rind, and solid, firm, crisp flesh that will carry to any market and keeps well. Similar in shape to Tom Watson. Color is dark green with wide bands of darker shade. Melons cut, big red heart showing few seeds. Seeds are both black and white. Very prolific and averages more large melons than any other variety and weighs heavier for its size. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

GEORGIA RATTLESNAKE. One of the finest melons ever grown; a splendid keeper, excellent shipper. Sometimes called Striped Gypsy. A very large melon of good shipping qualities. Shape oblong, striped and mottled with various shades of green. Flesh bright red. Flavor sweet and first class. Rind not thick. **Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.**

TOM WATSON. A large oblong melon. Skin dark green with thick netting on entire surface. Averages 20 to 24 inches long and 12 inches in diameter. Weighs 50 to 60 pounds. Has given entire satisfaction and is strongly recommended. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

KLECKLEY SWEET OR MONTE CRISTO. Fruit oval and of medium size; skin dark green; flesh rich, bright red; very sweet and tender. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; 1 lb. 90c.**

KOLB GEM. Originated in Alabama and more largely grown than any other melon; as a shipping variety has no superior; rind dark green, mottled; shape nearly round; quality superb; flesh deep red. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.**

MOUNTAIN SWEET. Old, but still the standard of excellence for quality; fruit long and very dark green. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 75c.**

DIXIE BELL OR STONE MOUNTAIN. A new round melon, sweetest of all the large melons. Dark green rind, flesh rich scarlet; frequently attains a weight of 70 to 80 lbs. Ripens in 90 days. Highly recommended for home gardens and nearby markets. **Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.10.**

IRISH GRAY. A large, long, main crop variety with a distinctive, gray-green skin; shell very tough and hard, makes a fine shipper; flesh sparkling, bright red, very sweet; seeds brown. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. 90c.**

APPLE PIE CITRON MELON

EXCELLENT FOR PIES, PRESERVING, ETC. This Citron Melon has fruit very similar to the watermelon, but the flesh is used exclusively for sauces, pies, preserving, etc. **Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c.**

MUSTARD

GERMAN—SENF

One oz. will sow 50 ft. of drill; 4 lbs. to acre.

CULTURE.—Sow early in spring in drills 1 ft. apart. A substitute for spinach. This plant should have a place in every garden.

GIANT SOUTHERN CURLED. A highly esteemed variety in the South. Leaves are large and beautifully curled. Very tender and sweet flavor. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 60c.**

FORDHOOK FANCY. The dark green leaves of this variety are more curled on the edges than any other sort, making most attractive greens. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 60c.**

JAPANESE MUSTARD SPINACH. A quick growing vegetable of Oriental origin. Can be cut 4 weeks after planting. The large oblong leaves are dark green in color and are cooked and prepared for the table the same as Spinach and Turnip or Mustard greens. Will stand extreme heat and is resistant to cold. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. 85c.**

OKRA OR GUMBO

GERMAN—GUMBO

12 oz. seed to 100 yds. row; 20 lbs. to acre.

CULTURE.—Sow the seed thinly in dry, warm soil in shallow drills 2 ft. apart. After the plants are up thin them out to 9 in. apart; hoe frequently and draw a little earth to the stems as they grow. Gather the pods when quite green and about $1\frac{1}{2}$ in. long.

PERKINS' MAMMOTH TALL. One of the best and most productive; green pods 4 to 5 inches long; do not get hard; wonderful productiveness. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 65c.**

EARLY DWARF. Early and very productive; green pods. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 65c.**

WHITE VELVET. Beautiful smooth, velvety, with pods produced in great abundance. **Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; 1 lb. 65c.**

ONIONS

GERMAN—ZWIEBEL

One oz. will sow 75 ft. of drill; 5 to 6 lbs. to the acre to grow large onions. If set onions are wanted, sow 50 to 60 lbs. to the acre.

CULTURE.—Thrives best on rich, loamy soil, and unlike other vegetables, succeeds well when cultivated on the same ground for successive years. Ground should be deeply trenched and manured the previous autumn and laid up in ridges during the winter to pulverize. As early in the spring as the ground is in working order, commence operations by leveling ground with a rake and tread it firmly; sow thinly in drills $\frac{1}{4}$ of an in. deep and 1 ft. apart; cover with fine soil and press down with back of spade or light roller. When the young plants are strong enough, thin gradually so that they stand 3 to 4 in. apart. Keep the surface of the ground open and free from weeds by frequent hoeings, taking care not to stir the soil too deeply nor to collect it about the growing bulbs. The onions may be pulled as soon as the tops are down. Expose to the sun for a few days to dry them for storage or market.

HARDY SILVERSKIN. Grown in St. Louis County. Unsurpassed for pickling purposes, mild flavor, with beautiful clear white skin. Will withstand very severe weather. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. 90c; 1 lb. \$2.25.**

LARGE RED WETHERSFIELD. Onion growers who prefer the red varieties will find our strain far surpassing the ordinary Red Wethersfield in size, productiveness and keeping qualities. Of the finest form; skin deep, purplish red, flesh purplish white; much finer grained than many of the red sorts. Immense crops of this onion are grown each season from our seed by some of the largest growers in the United States, who realize the very highest prices for their crops. **Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; 1 lb. \$2.00.**

PHILADELPHIA SILVERSKIN WHITE. One of the best white sorts for sets; also good for market or home garden; shape flat; skin pure white, and mild-flavored; also used largely for pickling onions. **Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 85c; 1 lb. \$2.50.**

PRIZETAKER. Excels every onion now existing in beauty, size and productiveness, and equals the best in quality, being as mild in flavor as the imported Spanish onions. Flesh white, sweet and tender. Color bright straw, and it always grows to a uniform shape, which is nearly a perfect globe. **Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 80c; 1 lb. \$2.50.**

SOUTHPORT LARGE WHITE GLOBE. A large, globe-shaped onion, firm, fine-grained of mild flavor; keeps well. This is one of the handsomest onions grown, of beautiful shape, clear white skin and commands the highest market prices. **Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. 90c; 1 lb. \$2.75.**

MAMMOTH SILVER KING. A very large onion, resembling the White Italian Tripoli, but is larger, slightly later and rather a better keeper, making it more desirable for the later fall market. Skin silvery white; flesh pure white, very tender and mild flavored. **Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. 80c; 1 lb. \$2.50.**

DANVER'S YELLOW GLOBE. Best-known and most popular onion; the earliest yellow variety; is entirely free from stiff necks. Globular in shape; has a small top. The most productive, producing as high as 1,000 bu. per acre, and will average on good soil, with proper culture, 700 to 800 bu. **Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 85c; 1 lb. \$2.25.**

SOUTHPORT LARGE RED GLOBE. Large and handsome, globe-shaped and color a purplish crimson. A good keeper and always realizes high prices. **Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 85c; 1 lb. \$2.25.**

CHIVES. An onion-like plant used as a salad and for flavoring soups. Makes an excellent ornamental garden bed edging which may frequently be cut, a new growth of leaves appearing soon after each cutting. Plants grow about 10 inches high. One sowing will answer for about three years. **Pkt. 10c.**

ONION SETS AND TOP ONIONS

By Parcel Post, add 7c per quart, postage. One quart will plant 50 feet of drill.

Sets should be planted out as early in the spring as soon as the ground is dry enough to work, in rows 1 foot apart, with 3 to 4 inches apart; the onions can be used in green state in April or May and will ripen in July.

WHITE ONION SETS. Per qt. 15c; pk. 90c; bushel \$2.75; not postpaid.

YELLOW ONION SETS. Per qt. 15c; pk. 90c; bushel \$2.50; not postpaid.

RED ONION SETS. Per qt. 15c; pk. 90c; bushel \$2.50; not postpaid.

BERMUDA ONION PLANTS

YELLOW and CRYSTAL WAX: 100 plants for 15c; 1,000 plants for \$1.25; \$4.75 for case of 6,000 plants.

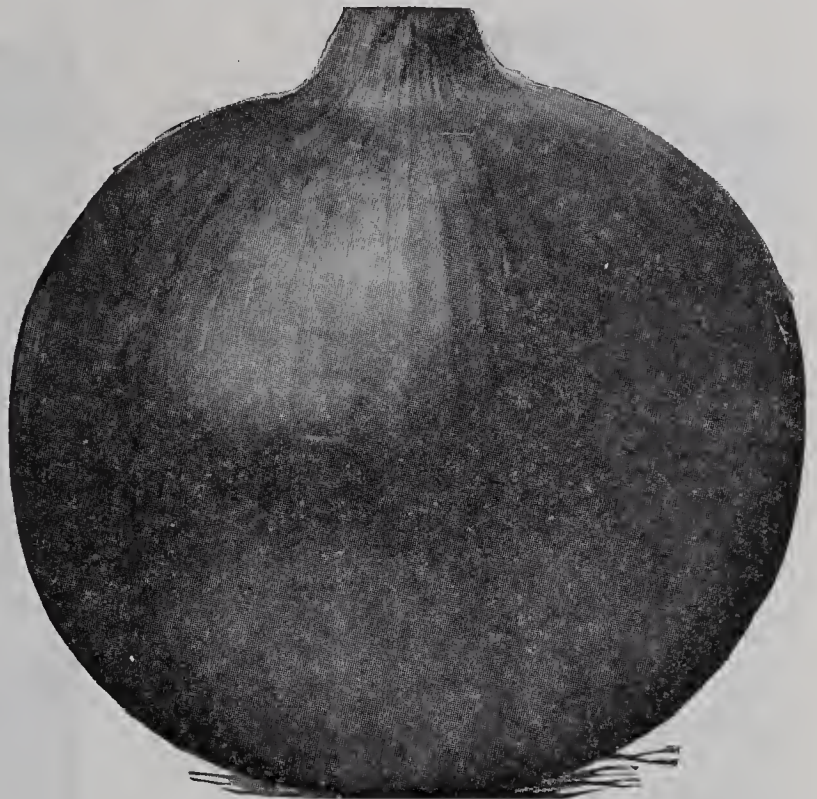
OYSTER PLANT OR SALSIFY

GERMAN—HAFERWURZEL

One oz. will sow 40 ft. of drill; 8 lbs. to acre.

CULTURE.—Sow the seed in light, deep soil, early in spring in drills 12 in. apart and 1 in. deep, thinning out the young plants to 4 or 5 in. The roots will be ready for use in October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground till spring, but should be dug up before commencing their growth.

MAMMOTH SANDWICH ISLAND. We consider this the largest and most profitable salsify; roots are two or three times the size of the ordinary salsify, and of more agreeable flavor. Pure white in color, and invaluable to market gardeners. **Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 65c; 1 lb. \$1.75.**



Southport Large Red Globe

PEAS

GERMAN—ERBSEN

One quart plants 60 feet of drill; 2 bushels to acre. Postage extra. Postal directions on inside back cover.

CULTURE.—Peas are among the first seeds that are planted in spring and need rich, well manured soil. Sow in drills 3 feet apart and repeat until the first of July, with the exception of our Extra Early, which can be sown as late as August, on account of its early ripening and mildew resistance. The number of peas may vary from 10 to the foot for the dwarf varieties to 8 to the foot of the medium tall and 6 to the foot of the very tall kinds.

FIRST AND BEST. Height of vine, 2½ feet. Very early, white-seeded. Fine quality. Popular with canners. Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.

ALASKA. Height of vine, 2½ feet. The earliest blue pea; a fine sort; ripens uniformly; desirable shipping variety; pods dark green. Pkt. 10c; 1 lb. 25c; 5 lbs. \$1.00; 50 lbs. \$7.00.

GRADUS or PROSPERITY. Vine, 3 feet. The finest extra early pea; it is in condition to pick about four days after Extra Early. Pods very large and well filled with large, wrinkled, deep green peas of finest quality. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.50.

NOTT'S EXCELSIOR. Height of vine, 15 inches. Very early; pods always well filled with peas of the finest quality. Larger pods than American Wonder. Very popular. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.00.

TELEPHONE. Height of vine, 4 feet. Pods very large, filled with immense peas of first-class quality; one of the very finest yet introduced. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.00.

LAXTONIAN. Extra early. May be classed as a dwarf Gradus, which variety it resembles, except that it grows only about 18 inches high. Their vigorous growth enables them to withstand weather conditions unsuited to some of the large-podded varieties. Pods are filled with large peas of exquisite flavor. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.25.

DWARF GREY SUGAR PEAS. Height of vine, 2 feet. Color dark brown. Pods broad and flat and can be eaten. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25.

TALL GREY SUGAR PEAS. Height of vine, 4 feet. Pods very large and finely flavored; extremely tender and borne in great abundance. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25.

SUTTON'S EXCELSIOR. Height of vine, 12 inches. New. As early as American Wonder with much larger pods and more prolific. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.00.

THOMAS LAXTON. A very popular gardener's variety. Height, 2½ feet; vine and foliage moderately stout, medium green; pods medium green, 3½ inches long, straight, nearly round and square ended, containing 7 medium dark green peas of superior quality. Compared with Gradus, is a little earlier, more productive, but with a smaller, less broad pod. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.50.

WORLD'S RECORD. An improved type of Gradus, being slightly earlier, more dwarf, true to type and productive. Height, 2 feet. Vines moderately stout, medium green; pods medium green, 4 inches long, fairly broad, pointed and well filled with 7 to 9 very large, dark green peas of exceptional quality. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.50.

MAMMOTH PODDED EXTRA EARLY. Height 3 feet. Matures practically with Extra Early and Alaska and is much more productive. Pods dark green, 4 inches long, round, broad, saddle-backed and square-ended, containing 7 extra large light green peas. A very productive and extra fine sort, bound to take first place as a leading market gardener's first early pea. Dry seed variable in color, white and green. Pkt. 10c; 1 lb. 30c; 5 lbs. \$1.25; 50 lbs. \$8.75.



Laxtonian Peas

FRESH PEAS ALL SUMMER

These varieties will mature in succession and furnish a continuous supply of delicious peas.

First and Best, early	1 packet of each	\$.25
Sutton's Excelsior, midseason	1 lb. of each	.75
Telephone, Late	2 lbs. of each	1.35

All prepaid

PARSLEY

GERMAN—PETERSILIE. One oz. to 100 ft. of drill; 7 lbs. to acre.

CULTURE.—Soak the seeds a few hours and sow early in spring and continue until early autumn. If for horse culture, the rows should be 3 ft. apart; if for hand culture, 18 in. Thin out the plants to 4 in. To preserve during winter, transplant to light cellar or cold-frame.

PLAIN LEAVED OR SINGLE. Strong in flavor. Very early and leaves plain and dark colored. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.

EMERALD DWARF EXTRA CURLED. Leaves finely cut, very curly and bright green; good for home or market garden. Also used for decoration. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.

LARGE-ROOTED HAMBURG. The edible portion is the fleshy root, which resembles a small parsnip; good for flavoring soups. Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. 75c.

PARSNIP

GERMAN—PASTINAKE. One oz. to 100 ft. of drill; 5 to 6 lbs. to acre.

CULTURE.—Easily raised and very productive. Sow early in spring in shallow drills 18 in. apart. The ground should be well and deeply dug. Thin out plants to 6 in. in rows. Hoe often.

LONG WHITE SMOOTH. A standard variety, with long, smooth, white roots. Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c.

HOLLOW CROWN OR SUGAR CUP. The best variety; roots medium long, white, smooth, tender, sugary and of excellent flavor. Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c.

PEPPER

GERMAN—PFEFFER

One ounce will produce 1,500 plants.

CULTURE.—Sow in hotbeds in March, outside when the apple is in bloom, against a board fence or a garden wall. Transplant in rows 3 feet and 2 feet in the row.

WORLD BEATER. One of the very best of the large peppers, being a cross between Chinese Giant and Ruby King, having the longer form and earliness of the latter with the size of the former. Fruits 4-lobed, 5 inches long by 3½ inches in diameter; flesh very thick and mild; exceedingly productive and a good shipper. Can be eaten raw without fear of burning. **Pkt. 10c; oz. 45c.**

CHINESE GIANT. Largest variety known. Very mild in flavor and red in color. Beautiful to look at and should have a place in every garden. **Pkt. 10c; oz. 50c.**

LONG RED CAYENNE. A small, long, bright red sort; very productive. Extremely strong and hot. **Pkt. 10c; oz. 40c.**

HUNGARIAN YELLOW. Fruit very pungent, 5 to 6 inches in length, rather slender and tapering to a somewhat twisted point. Waxy canary-yellow in color, turning crimson at maturity; very prolific. Also known as Bulgarian Yellow Wax. **Pkt. 10c; oz. 50c.**

NEAPOLITAN. Large, early. No other large pepper develops so quickly and it is fully two weeks earlier than any other large pepper. The strong vigorous plants grow two feet high by eighteen inches across; they are completely laden with large, handsome fruits and bear continuously until frost. Single plants carry from 35 to 50 marketable fruits at one time. Flesh is very thick and fruit is pale green, turning to a brilliant red color. Sweet and "mild as an apple." If our customers want peppers two or three weeks ahead of their neighbors they must plant Neapolitan. **Pkt. 10c; oz. 45c.**

BULL NOSE or LARGE BELL. Plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. Fruits large, with thick, mild flesh of excellent quality, for use in salads and mangoes or stuffed peppers. Color deep green when fruit is young; bright crimson when ripe. Excellent for home use. **Pkt. 10c; oz. 35c.**

RUBY KING. Best and most profitable mild red pepper for market or family use; so sweet and mild they can be eaten raw like an apple; large size. Each plant produces 7 to 9 large fruits to the bush. **Pkt. 10c; oz. 35c.**

CHILI. Color red, cone-shaped; very small; one of the hottest. **Pkt. 10c; oz. 45c.**

PIMENTO. The mildest flavored of all Peppers. A medium early, very thick-fleshed, heart-shaped, smooth, crimson variety. Matures in 135 days. Its productiveness makes it a desirable sort for market gardeners as it yields heavy crops until cut off by frost. Should be planted in every garden where a delicious, sweet-flavored pepper is wanted both for salad and for stuffing. **Pkt. 10c; oz. 45c; ¼ lb. \$1.40.**



Bull Nose or Large Bell



Connecticut Field Pumpkin

CONNECTICUT FIELD. Large, round, or slightly oval-shaped. Skin reddish-orange color with orange-yellow flesh. Extensively grown for stock feeding and generally planted with corn, producing enormous crops. Hardest of all and good for pies. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

PEPPER PLANTS

Ready in May and June.

	Doz.	4 doz.	8 doz.
BULL NOSE	\$0.20	\$0.75	\$1.25
CHINESE GIANT	.20	.75	1.25
RED CAYENNE	.20	.75	1.25

By parcel post, add 7c per dozen.

PUMPKIN

GERMAN—KUERBISSE

One ounce will plant 15 hills. Two quarts to acre.

CULTURE.—Sow in May, when the ground is warm, in hills 8x8. Can also be grown with corn—every fourth hill of every fourth row. If cultivated in 8x8 hills, use four plants to each hill.

CUSHAW or CROOKNECK. Grows to a very large size, sometimes attaining a weight of 70 pounds, and resembles in shape the Winter Crookneck squash; of light cream color, sometimes slightly striped with green. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 90c.**

JAPANESE PIE. Flesh thick, fine-grained and sweet, and makes the finest pies of any known variety; very productive. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.**

KING OF THE MAMMOTHS. A giant among Pumpkins. Shape round, flat and slightly ribbed; color of skin and flesh bright golden-yellow and of good quality, making excellent pies, but grown principally for stock; keeps well. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.**

KENTUCKY FIELD, or LARGE CHEESE. Flat and round like a cheese; color of skin deep orange, flesh somewhat lighter; one of the best for table use. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 45c.**



EARLY WHITEGOLD POTATO

*Here's What You Have Been
Looking For!*

It's the earliest White Potato so far introduced and therefore will bring fancy prices for early market.

It is profitable as a main crop since it is a good yielder—desirable size and shape—shallow eyes—fine cooker—no waste and a good keeper for winter use.

Its size and yield will compare favorably with late varieties such as Carman. The outstanding feature, however, is its earliness, for here is a white Potato of good size and appearance and ten days earlier than Cobbler, Early Ohio or Bliss Triumph.

This is the first season that seed is being offered commercially and we have arranged for marketing of the originator's own seed stock.

The past season was exceptionally hot and dry so that yields were cut down considerably on all varieties. However, White Gold yielded 150 to 200 bushels per acre.

Naturally the seed cost is somewhat higher than ordinary varieties, though the early growers will derive the greatest benefit and profit by early marketing.

Prices: 10 lbs. 75c; 30 lbs. \$1.65; 60 lbs. \$2.75.

POTATOES FOR SEED

GERMAN—KARTOFFELN

In drills 3 feet apart. 12 bushels to acre.

Our stock is all choice selected Northern-grown and true to name.

CULTURE.—The Potato, like all robust-growing vegetables, can be grown with varying success on soils of all kinds and in all conditions of fertility, but the soil best suited to it is a sandy loam. In all heavy soils it is more subject to disease and the flavor, also, is much inferior. In breaking up good pasture land, the decaying sod answers sufficiently well for the first year in lieu of manure. Manure is applied either in rows or hills, or broadcast over the ground and plowed in—the latter in most cases being preferable. If the soil is good, but little manure is required. In highly enriched soil the plants are more liable to disease than when grown in soil that is naturally good. The best fertilizers are those of a dry or absorbent nature, as plaster lime, superphosphate of lime and bone dust. For wet soils these are particularly beneficial, as they not only promote growth but prevent disease. Plant as early in spring as the ground can be had in fair working order, in hills or ridges about 3 feet apart, covering in light, warm soils about 4 inches deep, but in cold, wet situations, 2½ or 3 inches will be sufficient.

To destroy Potato Bugs and other Pests, use Insecticides. Page 39.

Potato diseases are controlled by Semesan Bel. Write for booklet. Price, pound, \$1.75.

PRICES ON ALL VARIETIES LISTED BELOW

½ pk, 45c; pk. 65c; ½ bu. \$1.00; bu. \$1.65. If wanted by parcel post, consult "Postal Directions," on inside back cover.

TRIUMPH. Earliest Potato grown; similar to Early Ohio in every respect, but claimed by the originator to be earlier. We recommend this for first-early planting. Color beautiful light red, flesh white and firm.

EARLY OHIO, RED RIVER STRAIN. Grown in the famous Red River Valley and is an improvement on the Early Ohio. An excellent keeper, of choice quality, and is somewhat earlier and a more perfect shape. Color, reddish. We recommend this variety.

IRISH COBBLER. One of the first ready for market and therefore will always command a good price. Skin is creamy-white, sometimes netted, which is an indication of good quality; eyes are strong but slightly indented. The flesh is white and of fine flavor.

BURBANK. Is largely used, and of good size, fine form and an excellent yielder. Flesh is white, very mealy and fine flavor. The best potato for baking.

CARMAN. Without exception the greatest yielding potato. Large size and shapely form. Eyes are few and shallow. Perfect keeper. Skin and flesh extremely white. Has no hollow heart or any dark parts. Best of the late sorts.

RURAL NEW YORKER. A very distinct and valuable cropper. Eyes are few and shallow. Very healthy, solid and vigorous variety, and always commands ready sale. Skin and flesh white and mealy.

GREEN MOUNTAIN. This is a most excellent late potato; it does remarkably well on poor soils, and is very free from disease; it resists drought wonderfully well, and produces tubers of large size and attractive appearance; flesh white. It is a good keeper, and when put away in the fall will keep well until spring. Matures in 140 days.

DIP THE TUBERS IN DU PONT SEMESAN BEL BEFORE PLANTING. THIS CONTROLS SCAB, BLIGHT AND OTHER POTATO DISEASES AND INCREASES THE YIELD. SEE PAGE 43.

SEED SWEET POTATOES

BERMUDA, NANCY HALL, YELLOW NANSEMOND, RED NANSEMOND. 5 lbs. postpaid 60c; pk. (14 lbs.) by express not prepaid 75c; bushel (56 lbs.) by express not prepaid \$2.00.

RADISH

GERMAN—RADIESCHEN, RETTIGE

One ounce to 50 feet of drill. Eight pounds to acre.

CULTURE.—The soil for radishes should be very rich, light and mellow, well broken by digging, as their tender and mild qualities depend much upon their rapid growth. For very early use, sow in gentle hotbeds in February, and in the open air as soon as the ground can be worked, at intervals of ten or twelve days, for a succession as long as they may be wanted. The winter varieties should be sown in August, lifted before severe frost, and stored in the cellar.

Sow in drills 1 foot apart and cover lightly; thin out while small to 3 inches apart. Hoe often.

EARLY DEEP SCARLET TURNIP. The famous small red variety and the earliest in cultivation. Ready to pull in three weeks and remain fit for use longer than any other early variety. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c.**

WHITE STRASBURG. We have the very best obtainable strain of White Strasburg Radish; roots are long, handsome and tapering, and both skin and flesh pure white. Flesh firm, crisp and tender. Withstands severe heat. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c; 5 lbs. \$3.00.**

LONG WHITE LADY FINGER. Of rapid growth, beautiful shape; skin and flesh snow-white, juicy, firm, crisp and tender. Finest of long white radishes. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 75c.**

ST. LOUIS WHITE SUMMER. Grown by nearly every gardener; flesh pure white, very tender and of a delightful flavor. Very early and a quick grower. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c.**

EARLY SCARLET WHITE-TIPPED. We have an extra fine strain of this well-known kind; it is even in size, smooth, fine, bright scarlet with clean white tips, exceptionally early, splendid to bunch for market and finest for family use. Very crisp and tender, and it has every point of excellence necessary for a radish. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c; 5 lbs. \$3.00.**

PETERSEN'S SPARKLER RADISH. Indeed a "sparkler;" in fact, one of the most attractive radishes, so striking as to call forth exclamations of pleasure from growers generally. As indicated above, the white color covers about one-half of the root, and the scarlet is an especially bright shade. Very crisp, solid and sweet. One of the finest varieties for outdoor culture and to grow for the market, as well as for the home garden. **Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. 65c.**

EXTRA EARLY SCARLET TURNIP (Forcing). Best adapted for forcing or greenhouse culture; skin bright red. **Pkt. 5c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.00.**

NEW GOLDEN GLOBE. A perfect globe in shape; skin bright golden-yellow; a rapid grower of fine qualities. Every garden should have this variety. Withstands summer heat well. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.**

PHILADELPHIA WHITE BOX. One of the best varieties for growing under glass or frames, as well as for outdoor culture; a rapid grower, with a short top; a beautiful round white variety; grows to a good size. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.**

FRENCH BREAKFAST. Pink color, olive-shaped and white-tipped. A favorite variety. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 65c.**

ICICLE. The finest white variety, grows very rapidly, the roots attaining the length of 4 inches. Excellent flavor and desirable for home and market use. **Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 65c.**

WOOD'S EARLY FRAME. An excellent long red radish, with small top. Fine for forcing and outdoor culture. Crisp and tender. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 75c.**

WINTER VARIETIES

LONG WHITE SPANISH. Flesh white and solid but milder than Black Spanish. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c.**

LONG BLACK SPANISH. A long, black-skinned variety; flesh white and slightly pungent; one of the latest and hardiest. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c.**

ROUND BLACK SPANISH. Skin black, roots globe-shaped; white-fleshed and of a piquant flavor. Keeps well all winter. Sow about the middle of June. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c.**

ROSE-COLORED CHINA WINTER. Bright, rose-colored skin. One of the best for fall and winter use. Flesh firm and white, and quality unexcelled. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c.**

RHUBARB

GERMAN—RHABARBER

One ounce will produce 1,000 plants. 10 pounds to acre.

CULTURE.—Rhubarb succeeds best in deep, somewhat retentive soil. It may be propagated by seeds, but is usually grown from root. Sow the seed in April in drills, and when the plants are of fair size, thin to 9 inches apart in the drills. In spring or fall transplant into rows 3 feet apart, setting them the same distance apart in the rows.

When grown from roots they are usually set in the spring, and sometimes in the fall; either spring or fall will do, but the spring is considered best.

MYATT'S VICTORIA. Large and desirable. **Pkt. 5c; oz. 20c; ¼ lb. 60c.**

RHUBARB ROOTS

When only a few plants are wanted, we suggest roots instead of seed. The growth is very rapid. Transplant roots in fall or spring, in highly manured soil, four to six feet apart, each way. Do not pull stalks until second year after transplanting. Two-year-old roots, postpaid, **15c each; doz. \$1.50.** Postage extra: **5c each; 25c doz.**

SORREL

A hardy plant grown for its leaves, which are used as boiling "greens" or salad, also for making soup.

BROAD-LEAVED. **Pkt. 10c; oz. 20c; ¼ lb. 60c.**



White Tipped Radishes

SPINACH

GERMAN—SPINAT

One ounce will sow 50 feet of drill; 12 to 15 pounds an acre.

CULTURE.—A very important crop in our market gardens, and is one of the most easily managed of all vegetables, requiring but little culture, and may be had fit for use the entire season. The main crop is sown in September. Sometimes covered up in exposed places with straw or salt hay during winter which prevents it from being cut by frost; but in sheltered fields there is no necessity for covering. For summer use it may be sown at intervals of two or three weeks from April to August. Spinach is best developed and most tender and succulent when grown in rich soil.

ROUND THICK LEAF. Leaves large and fleshy. An excellent market sort. Good for either spring or fall sowing. Grown extensively everywhere. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 45c; 10 lbs. \$2.00.**

KING OF DENMARK. The best long-season Spinach, remaining two weeks longer than others before bolting to seed. Plant vigorous and spreading; leaves large, rounded, crumpled and blistered; deep green in color. **Pkt. 5c; oz. 10c; lb. 45c; 10 lbs. \$2.00.**

RESELECTED BLOOMSDALE SAVOY. The hardiest spinach, renowned for its good market qualities; it grows very rapidly; the leaves are wrinkled or curled like the Savoy cabbage. Very popular with market gardeners, and weighs much heavier than any other sort. Best for fall sowing. **Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 45c; 10 lbs. \$2.00; 100 lbs. \$16.00.**

BLIGHT-RESISTANT BLOOMSDALE SAVOY. This popular disease-resistant variety has beautiful dark green, heavily crumpled leaves and can be grown successfully on infected soil. Excellent for planting in early spring or late fall to winter over. **Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 45c; 10 lbs. \$2.25; 100 lbs. \$18.00.**

LONG STANDING. Best for spring sowing. Stands a long time before shooting to seed. Large thick leaves, excellent for greens. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 45c; 10 lbs. \$2.00.**

NEW ZEALAND CUT AND COME AGAIN. Makes a luxuriant growth all summer. In appearance entirely distinct from other spinach. Its quality is very desirable and tender. May be cut during entire summer. Soak the seed in warm water before planting. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c.**

King of Denmark Spinach



SQUASH

GERMAN—KUERBISSE. One ounce will plant 30 hills; 3 to 4 lbs. an acre.

CULTURE.—The plants are very tender and sensitive to cold, and planting must be delayed until settled, warm weather.

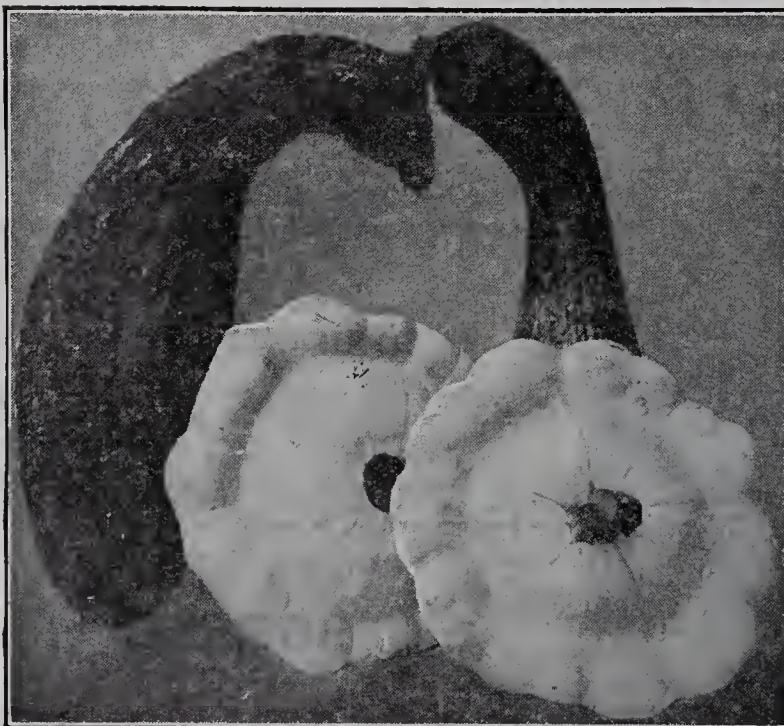
The general principles of culture are the same as those given for cucumbers and melons. Summer varieties should be planted 4 feet apart each way and the winter sorts 8 feet. Three plants for a hill.

EARLY WHITE BUSH SCALLOP, or PATTY PAN. Matures early and will bear throughout the season if fruits are kept gathered. Squashes are clear white and of large size. Flesh is thick and very fine in quality. **Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 90c.**

HUBBARD. Our own strain of Hubbard Squash is considered to be the finest of any grown. Vines are of strong, running growth and bear large pear-shaped fruits. Shell is hard, strong and dark green in color; thickly covered with rough, warty growth. Flesh bright orange-yellow, fine-grained, very dry, sweet and rich flavored. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.00.**

ITALIAN VEGETABLE MARROW. Vines of bush habit and produce large much elongated fruits, dark green at first, but as they mature become marbled with yellow and lighter green in stripes. Everyone should grow a few hills. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.00.**

GIANT SUMMER CROOKNECK. Largest and one of the earliest summer varieties; fruits often two feet long, very warty and deep orange in color. Of dwarf bushy habit and very productive. **Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. 90c.**



Giant Summer Crookneck and Patty Pan Squash

TOMATOES

GERMAN—LIEBESAPFEL

One ounce will produce 1,500 plants; $\frac{1}{4}$ lb. to transplant for one acre.

TOMATO CULTURE. The most complete book ever written on growing tomatoes, by Tracy. Cloth bound, \$1.35 postpaid.

CULTURE.—The tomato is raised from seed, which should be sown in the hotbed about February 20, and continuous sowings made until April 1, according as the plants are wanted for use. When the plants are about 2 inches high, transplant to 4 inches apart; and, after three or four weeks, transplant from the hotbed into a cold-frame, setting the plants 8 inches apart each way. (A cold-frame is simply a low wooden frame covered with glass, used to protect such plants as are not sufficiently hardy to withstand our winters.) Keep the plants cool so as to make them stocky. Set out in the open ground about June 1, in well-enriched soil, setting the plants 5 feet apart each way.

ST. LOUIS MARKET. The earliest purple tomato. The best of the early, purple-fruited varieties. In season with Early Detroit, while fruit is larger, smoother, more globe-shaped; very solid, free from cracking and productive. **Pkt. 15c; oz. 50c; $\frac{1}{4}$ lb. \$1.50.**

JUNE PINK. Very early and of medium size. Round, smooth and very solid. Color pink. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35.**

BREAK O' DAY. This new, early tomato of true strain, has made quite a sensation among gardeners. The main feature of this variety is its earliness. The fruit is globe-shape and smooth as an apple, deep orange red and colored well up the stem. Within, the color is deep red and flesh is very solid with thick walls and remarkably few seeds. Resists blight well and carries an abundance of fruit. For an extra early tomato, we have never seen its equal. **Pkt. 15c; oz. 65c; $\frac{1}{4}$ lb. \$2.25.**

ACME. Early and bears fruit until cut off by frost. Fruit is purplish, always round, smooth and of good size, and is borne in clusters of four or five; free from cracks and stands shipment well. Flesh is solid and of excellent flavor. Excellent for home and market. Does well both outdoors and under glass. A good canning variety. **Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00.**

LIVINGSTON'S BEAUTY. A very fine variety of large size, grows in clusters of four or five, color glossy crimson with a purplish tinge. Very solid, with a tough skin, making it a desirable market variety. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.15.**

EARLIANA. Very early large variety, of uniform size, and very productive. Fruit round, smooth and firm, color bright red. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35.**

JOHN BAER. Of all tomatoes this is the most handsome yet introduced. An early variety of bright scarlet color, good size and smooth, ripening close to the stem. A wonderful cropper. Seed we offer was grown from the introducer's stock. If you want a tomato that will give entire satisfaction in every respect, give this a trial. You will order more next year. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35.**

TRUCKERS' FAVORITE. An early tomato, which ripens evenly and is of excellent flavor; solid flesh; purplish red. On account of its large size it makes the perfect shipping variety. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35.**

EARLY DETROIT. Largest and best in shape of the early purplish pink tomatoes. Vine vigorous and very productive. Fruit exceptionally uniform in size, nearly globe-shaped, heavy, firm, smooth and well adapted for shipping. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25.**

LIVINGSTON'S GLOBE. Perfectly globe-shaped, very early, large, smooth, has few seeds, firm fleshed, ripens evenly, rose-colored tinged with purple, very productive, an excellent keeper, flavor superb. Fine for greenhouse or for early outdoor growing. **Pkt. 10c; oz. 45c; $\frac{1}{4}$ lb. \$1.35.**

OXHEART. A new variety. The largest of all Tomatoes—often weighing 3 lbs. Shaped like a heart. Purple-pink in color and of excellent flavor. Flesh very thick. Very few seed cells. Healthy vines 120 days. **Pkt. 15c; oz. 65c; $\frac{1}{4}$ lb. \$2.00.**

PETERSEN'S RED ROCK. A wonderful fine variety, extraordinarily solid, free from excessive water, smooth as an apple and red as it is possible to be. No sort is its superior in texture or flavor. A very heavy producer and an excellent shipper, makes this a favorite tomato for truckers and growers. Undoubtedly the finest large red tomato now in use. **Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.35.**

PONDEROSA. The largest fruited tomato. Of fine quality for slicing. Vines of strong growth; fruits oblong in form, deep through, and generally ridged or ribbed; deep purple in color. They are of solid flesh with small seed cells; of fine flavor. Planted in good soil, fruits frequently attain a weight of one pound or more. **Pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.50.**

WHITE'S EXCELSIOR. A first-class main crop purple tomato of large size. It is quite early and bears fruit until frost. Fruit large, heavy and solid, coloring evenly about the stem, with no hard core and few seeds. **Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.25.**

STONE. One of the heaviest and most solid fruited of the large tomatoes of good quality. Our stock is distinctly superior to most of that offered under this name, being larger, smoother, more uniform and better colored. Vines vigorous and productive. Fruit round, deep scarlet, slightly flattened, very large and astonishingly heavy. Quality unexcelled. Not subject to rot. **Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 90c.**

YELLOW PEAR. Fruit two inches long, one inch in diameter. Pickled in unbroken form. **Pkt. 10c; oz. 45c.**

YELLOW PLUM. Plum-shaped, yellow flesh, fine flavor. **Pkt. 10c; oz. 40c.**

MARGLOBE. The popular wilt and nailhead rust-resistant sort. 100 days. Bright red. This grand tomato was developed by the U. S. Department of Agriculture. Marglobe produces a very heavy crop either on infested soils or on soils free from diseases, producing large, smooth, deep globe-shape, meaty, bright red tomatoes, in 100 days. Ripens uniformly even around the stem and resists cracking well. A heavy yielder. **Pkt. 15c; oz. 45c; $\frac{1}{4}$ lb. \$1.50.**

BONNY BEST. Early, large and smooth; heavy cropper. 100 days. Scarlet red. This variety is a vigorous grower; enormously prolific. In shape it is slightly flattened but thicker through than most other tomatoes. Sets its fruit in clusters of five or more at close intervals. Makes a magnificent tomato for all purposes, growing in all sections. **Pkt. 10c; oz. 45c; $\frac{1}{4}$ lb. \$1.50.**



Petersen's Red Rock

TOMATO PLANTS

PONDEROSA, BEAUTY, LIVINGSTON'S GLOBE, STONE. Strong, stocky plants. Ready, May and June. Postpaid, 1 doz. 25c; 4 doz. 90c; 8 doz. \$1.50.

SWISS CHARD

SEA KALE OR SILVER BEET OR THE CUT-AND-COME-AGAIN SPINACH BEET. This vegetable, although little known in America, is worthy of a place in every garden. The greens are used for boiling and make a most desirable dish; can also be pickled. The middle of the leaf can be used and served as asparagus. The beet is in season from early spring to autumn frost. Can be grown from early spring to autumn frost. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 75c.**

TOBACCO

GERMAN—TABAK

One ounce will sow 25 feet square and produce plants for one acre.

CULTURE.—Seeds may be started in hotbeds, or sown in the open ground as soon as the ground can be worked, in rich, dry soil; rake off the bed and sow broadcast, pressing down firmly and evenly, covering the seed very slightly; keep free from weeds, and water frequently if the weather is dry; set out the first of June, 3 feet apart, in land that has been heavily manured.

MISSOURI BROAD LEAF. A well-known standard sort; very large yielder, an ideal sort for home use. **Pkt. 10c; oz. 45c.**

FINE HAVANA. Finest strain of imported seed. **Pkt. 10c; oz. 45c.**

WHITE BURLEY, IMPROVED. The leading type, having been greatly improved. Leaves very large, wide, porous and make fine plug filler and wrappers. Very productive. **Pkt. 10c; oz. 50c.**



Swiss Chard

TURNIPS

GERMAN—RUEBEN

One ounce will sow 150 feet of drill; 2 pounds will sow an acre.

CULTURE.—For early use, sow as soon as the ground can be worked in spring in drills 15 inches apart and thin to 8 inches apart as soon as the plants are large enough to handle. For succession, sow at intervals of a fortnight until the last week of July, from which time until the end of August sowings may be made for main and late crops. The sowings should be made just before rain if possible, a rapid growth being important.

AMBER GLOBE. Excellent for table use or feeding stock; flesh yellow, firm and sweet. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.**

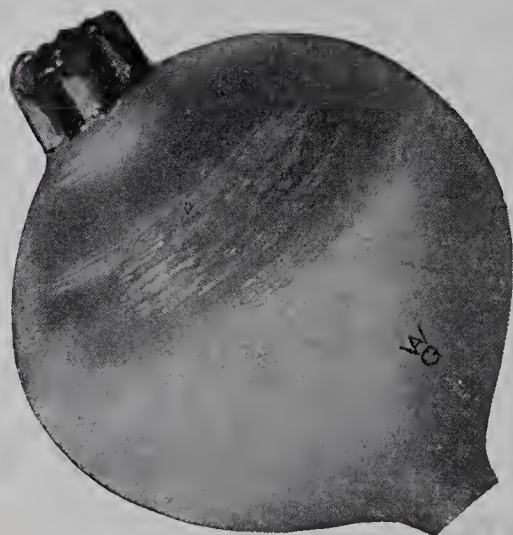
SEVEN TOP, or TURNIP WINTER GREENS. Cultivated extensively in the South for the tops, which are used for greens. Very hardy and will grow all winter, but does not produce a good root and is only recommended for the tops. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c.**

RED, or PURPLE TOP, STRAP-LEAVED. Early variety. Leaves few, entire, upright in growth. Root of medium size. Color purple or dark red above ground, white below; flesh white, fine-grained and tender. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 65c.**

SHOWGOIN (JAPANESE) BLIGHT AND LOUSE PROOF. It produces an abundance of delicately flavored greens, which are always in good demand and later a full crop of very tender, semi-globe, white turnips. Can be grown in hot weather. The leaves grow upright, about 2 ft. but should be cut before attains full growth as early cutting will allow another and probably two cuttings later. **Oz. 10c; ¼ lb. 25c; 1 lb. 65c; 5 lbs. \$2.75.**

EXTRA EARLY PURPLE TOP MILAN. A beautiful and unusually delicious vegetable; pleases the grower by maturing a week earlier than the earliest of other sorts. Of medium size, flat and thick, with smooth, bright purple top, snow-white flesh, and little given to leaves. It accommodates itself to either spring or fall maturity, and is a delight to those who appreciate the food value and fine flavor of a good turnip. A heavy cropper, it deserves the greatest favor from the market gardener, and is surely a top-notch for the home garden. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 75c.**

LARGE EARLY RED-TOP GLOBE. 65 days. Large size, rapid growth, unusually attractive and admired by all. Globular in shape, very handsome and of superior quality either for the table or stock. A heavy producer, early and an excellent keeper. Flesh is pure white and the best flavored of all turnips, raw or cooked. In best condition for table use when the roots are about three inches in diameter. Largely grown for market. **Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 65c; 5 lbs. \$2.50.**



Red Top Globe

RUTABAGA

GERMAN—STECK-RUEBEN

One ounce will sow 100 feet of drill; 2 pounds an acre.

CULTURE.—Should be sown from the 20th of June to the middle of July, in drills 2 feet apart, and thinned out at the first working to 10 inches between the plants. Flesh close-grained, hard; will endure considerable cold. The roots are best preserved in a pit or cellar during winter, and are excellent for the table early in spring.

AMERICAN YELLOW PURPLE TOP. Flesh very solid and fine quality. Largely grown for table and feeding stock. **Pkt. 5c; oz. 15c; ¼ lb. 25c; lb. 65c.**

CHOICE FLOWER SEEDS

What is prettier than a flower garden? Interest your children and you will be surprised at the results.

Our flower seeds are selected with the utmost care and if our instructions are closely followed the best results can be obtained.

We have taken great pains to make our list as precise and clear as possible, so that it can easily be understood.

A DESCRIPTIVE LIST OF CHOICE FLOWER SEEDS.

Annuals. They grow from seed and die the first year.

Biennials. Bloom and die the second year. Some varieties will bloom the first year, if planted early.

Perennials. Usually bloom the second year and live indefinitely. Many varieties bloom the first year.

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.

All flower seeds sent postpaid on receipt of price.

Send us \$1.00 and select packets to the value of \$1.25.

Send us \$2.00 and select packets to the value of \$2.50.

Send us \$3.00 and select packets to the value of \$3.75.

Send us \$4.00 and select packets to the value of \$5.00.

ADONIS AESTIVALIS (Flos Adonis)

Beautiful annual dark scarlet flowers with light center. Of easy culture and showy. Fine cut foliage. A very pretty plant; 1 foot. **Pkt. 10c.**



Petersen's Giant Comet Asters



Bachelor's Button

AGERATUM

One of the best summer blooming annual plants grown from seed. They are rapid growers, early and constant bloomers. During the hot dry summer months their bright flowers are produced in the greatest profusion. Set the dwarf sorts 10 inches apart and they soon make a mass of charming color.

Mexicanum. Height, 18 inches. Beautiful soft lavender-blue, of free-branching habit. **Pkt. 5c.**

ASTERS

During the late summer and early fall the garden is usually a riot of reds and yellows, so the asters in their dainty and distinct colors as well as their many attractive forms are a pleasing addition. The long stems make them desirable for cut flowers and the blooms last long in water.

Large Flowering. Mixed colors. **Pkt. 5c.**

Giant Comet. Flowers large size and beautiful; curled and twisted:

Mixed Colors. Pkt. 10c.

Separate Colors. Pkt. 10c.

Victoria. American type; flowers large, double and well formed; for cutting and floral work:

Mixed Colors. Pkt. 10c.

Daybreak. Shell-pink. **Pkt. 10c.**

White. Pkt. 10c.

Queen of the Market. Very early; fine for cutting:

Mixed Colors. Pkt. 5c.

Separate Colors. Pkt. 10c.

Dwarf Chrysanthemum - Flowered. Mixed colors. **Pkt. 5c.**

BACHELOR'S BUTTON or CORNFLOWER

Valuable old-fashioned flowers. Grow in any situation and bloom continuously. Excellent for cutting. There is a variety of colors, blue, rose and white. Height, 2 feet. **Pkt. 5c.**

BALLOON VINE (Love-in-a-Puff)

A rapid-growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons. 5 to 10 feet. **Pkt. 5c.**



One of many varieties of Canterbury Bell in our Finest Mixed.

BALSAM ELATERIUM (Squirting Cucumber)

Very curious climbing vine, with ornamental foliage, fruit golden-yellow, warted, and when ripe opens, showing the seed and its brilliant carmine interior, fine for trellises, rock work, stumps; used medicinally; annual; 10 feet. **Pkt. 5c; oz. 35c.**

BALSAM (Lady Slipper or Touch-Me-Not)

An old favorite, producing beautiful brilliant colored double flowers in great profusion; easily raised; height, 2 feet. Double. **Pkt. 10c.**

CALLIOPSIS

One of the most showy flowers, very easily grown; will thrive almost anywhere without trouble or care. A favorite for the home yard or lawn. **Pkt. 5c.**

CALENDULA

The old "Pot Marigold." A very hardy annual with double yellow flowers like double daisies. Blooms all summer and grows about 15 inches tall. Hardy annual. **Pkt. 5c; 1 oz. 30c.**

BRACHYCOME (Swan River Daisy)

A free-flowering, dwarf-growing annual; covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture. **Pkt. 10c.**

CACALIA

Each flower is a miniature paint brush of orange-scarlet produced on long wiry stems which make it an excellent cut-flower. An old but little known annual for the border worth trying. **2 feet.**

Tassel Flower or Flora's Paint Brush. Scarlet and orange, mixed. **Pkt. 10c.**

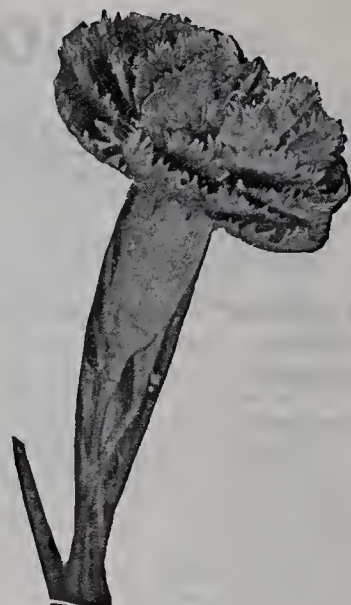
COLUMBINE (Perennial)

No hardy plant grown from seed is more easily handled than the Columbine. Seed may be sown in the open ground early in spring, and will, in some cases, bloom the same season; or they may be planted in August or September, and will come up early in spring and make vigorous plants, which will bloom abundantly during late spring and early summer. Height, 2 feet.

Columbines should be planted wherever their presence will serve to lighten up a too stiff and formal planting, for no other plant has so airy a grace as the Columbine, is more generous of its blooms, or more effectively adapted for cut flowers. Mixed. **Pkt. 10c.**



Candytuft



Carnation

DAISY

Arctotis. 2½ feet high. Annual. Large showy flowers. Pure white on upper surface, underneath pale lilac-blue. Easily grown from seed. Delights in a sunny situation and is especially valuable as cut flower. Blooms from early July to hard frost. **Pkt. 10c.**

CANARY BIRD VINE

A beautiful rapid-growing annual climber, the charming little canary-yellow blossoms bearing a fancied resemblance to a bird with its wings half expanded. The sprays of flowers are very artistic and keep when cut in good condition for a week. **Pkt. 10c.**

CANDYTUFT

Among the most beautiful of our annual flowers; seed can be sown at all seasons or in fall for early flowering. They like rich soil and plenty of room to flower freely. Nearly all varieties are hardy annuals. Very pretty in beds or masses. Bloom 60 days. Height, 12 inches. Mixed colors. **Pkt. 10c.**

CANTERBURY BELL

Large, stately, bell-shaped flowers; colors white and various shades of violet, rose, lilac and blue; height, 2 feet. Finest mixed. **Pkt. 10c.**

CARDINAL CLIMBER

This is a very attractive, strong and rapid grower, attaining a height of 25 feet, with beautiful fern-like foliage and literally covered with a blaze of fiery cardinal-red flowers from midsummer to frost. The flowers are about one inch in diameter and are borne in clusters five to seven blooms each. They delight in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1st. **Pkt. 10c.**

CARNATION

Peculiarly adapted for border purposes. Carnations grown from seed will bloom more profusely than when propagated from plants. They are hardy, free-flowering and one of the most delightful summer flowers to grow. Double mixed. **Pkt. 10c.**

Marguerite. Flowers 4 months after sowing; fine for cut flowers. **Pkt. 10c.**

Extra Choice Selected, Mixed. **Pkt. 20c.**

CHRYSANTHEMUMS

Annual. These beautiful flowers are very showy and effective garden favorites. They are extensively grown for cut flowers bearing in profusion large daisy-like flowers on good stems, and succeed in any good garden soil, preferably in a sunny location. The seed may be sown in spring as soon as the weather is settled or they may be started in a frame in early April and the plants set out when a few inches high. They grow 24 inches in height, quite bushy, and should be set not closer than 15 inches apart. They come into bloom about midsummer, remaining in good condition until autumn. **Pkt. 10c.**

CLARKIA

This pretty and easily grown annual will do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut. **Elegans, Double Mixed. Pkt. 10c.**

COBOEA SCANDENS (Cup and Saucer Vine)

A good, tall vine, lasting for several years. Foliage heavy, suiting it for shade purposes, and its flowers are attractive. Good for pot culture indoors. 20 feet. **Pkt. 10c.**

COCKSCOMB or CELOSIA

Free-blooming, graceful plants producing spikes of beautiful feathery and comb-shaped flowers. **Pkt. 5c.**

COSMOS

Every year this flower makes more friends. Both flowers and lace-like foliage are fine for cutting. Grow 4 to 8 feet high from seed. In flower for 30 to 40 days. Valuable for screens. Blooms until killed by frost. **Pkt. 5c.**

CYPRESS VINE

A beautiful climber, star-shaped, scarlet and white blossoms. One of the most popular vines with very delicate fern-like foliage. Sow in May, first soaking the seeds in warm water for a few hours. 15 feet. **Pkt. 10c.**

DATURA (Trumpet Flower)

Of robust habit and grows to a good-sized shrub the first season; flowers trumpet-shaped. **Pkt. 5c.**

DIGITALIS (Foxglove)

Hardy perennials of easy culture, living for several years without care and yielding tall spikes of showy, curiously-shaped flowers. 30 inches. Blooms second year. **Pkt. 5c.**

ESCHSCHOLTZIA (California Poppy)

The beautiful lace-like foliage covers the entire growth a foot high, and has a silvery sheen. Cone-shaped poppy flowers appear on fairly long stems from June until frost without interruption. Mixed colors. **Pkt. 10c.**

EVENING PRIMROSE

Charming hardy annuals with large, showy flowers blooming all summer. **Pkt. 5c.**

FORGET-ME-NOT

A popular and charming variety, bearing delicate and blue flowers, highly prized for modest beauty. **Pkt. 10c.**

FOUR O'CLOCK

The flowers red, white and yellow—grow in clusters in summit of stem. Very fragrant, expanding in the evening and withering in the morning. All colors. **Pkt. 5c.**

GAILLARDIA (Blanket Flower)

These splendid, showy annuals, remarkable for the profusion, size and brilliancy of their flowers, are a favorite in every garden. They attain a height of 18 inches and are used extensively as cut flowers for bouquets. They are free-bloomers all summer long and continue until frost. Seed should be sown where they are to bloom. **Pkt. 10c.**



Gaillardia

HOP (Japanese Variegated)

Rapid summer climber, in three or four weeks' time attaining a height of 20 to 30 feet, resembling the common Hop, but being an annual, attains full perfection the first season. The foliage is luxuriant, making a dense covering. **Pkt. 10c.**

HELICHRYSUM (Straw Flower)

Hardy Annual Everlasting. Highly prized for winter bouquets. Large, full double flowers, of various colors from white and bright yellow to scarlet, shaded and tipped. **Dwarf Double Mixed. Pkt. 5c. Tall Double Mixed. Pkt. 5c.**

HYACINTH BEAN

A fine climber, with clusters of purple and white flowers, growing from 10 to 20 feet high. **Pkt. 5c.**



Cosmos

GLOBE AMARANTH

A desirable everlasting; valued for its handsome globular heads of flowers, which, if cut when well matured, will retain their beauty through the winter. 18 inches high. **Pkt. 5c.**

GODETIA

Beautiful garden plant with delicately shaded blossoms. Easily cultivated. 1 foot high. **Pkt. 5c.**

ORNAMENTAL GOURDS

Rapid growing annual vine with heavy foliage. The unique fruits of grotesque shapes are ornamental and useful. Height, twenty to thirty feet. **Mixed Varieties. Large and small sorts. Pkt. 10c; oz. 20c.**

HOLLYHOCKS (Annual) Five Feet

These handsome flowers bloom the first year, and if sown in the open ground in May, they will be in flower in August, but if started indoors and set out in May, they will bloom in July. They are continuously covered with large flowers in many beautiful colors. **Everblooming Single Mixed. Large single flowers, exhibiting every shade known in Hollyhocks. Pkt. 10c. Everblooming Double Mixed. Double and semi-double. Pkt. 10c.**



Hollyhocks

KOCHIA TRICHOPHYLLIA (Mexican 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. **Pkt. 5c.**

LARKSPUR

Well-known annuals of great beauty and noted for the richness of their colors, particularly in blue shades. Fine for cutting. In order to have blossoms from July until frost the seeds should be sown as early as weather will permit. Double Dwarf Rocket. **Pkt. 10c.**

LOBELIA

This charming variety (*L. erinus compacta*), forms compact bushes about 6 inches high and are covered with bloom throughout the season. Highly desirable for edging, ribbon bedding and garden decorations as well as for pot culture. They flower the first season from seed. **Pkt. 5c.**

LUPINUS (Lupine)

Annual Sorts. Free-flowering, easily-grown annuals with long graceful spikes of rich and various colored pea-shaped flowers; valuable for mixed borders, beds and for cutting; prefers a little shade; 2 feet. **Pkt. 10c.**

MARIGOLD

No flower bed seems complete without this fine, old-fashioned plant; mixed colors.

African. Tall. **Pkt. 5c.**

MIGNONETTE (Reseda)

A hardy annual producing dense cone-shaped flower-spikes, made up of thickly set flowers of modest colors. An old-time favorite and one of the most generally known flowers for fragrant bouquets. For a continuous supply of flowers sow seed early in spring and again in midsummer. **Pkt. 10c.**

MORNING GLORY

Japanese. Flowers very large and most distinct colorings; foliage is also wonderfully varied and attractive. Colors range from deep rich purple to pure silvery white. Finest mixed. **Pkt. 5c; 1/2 oz. 20c; oz. 30c.**

Morning Glory (Tall). Indispensable for covering trellises, verandas, stumps, etc. Mixed colors. **Pkt. 5c; oz. 15c; 1/4 lb. 35c; lb. 90c.**



Marigold

MOONFLOWER

Will cover from 30 to 40 feet in a single season; it has thick, glossy green foliage and produces thousands of large, white, silky blooms of rare fragrance, which open at dusk and on cloudy days. **Price, pkt. 10c; 1/2 oz. 25c.**

MOURNING BRIDE

Seed can be sown any time in the spring after danger of frost is past. They grow about 2 1/2 feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers are borne on long stems, and when cut keep in perfect condition for the best part of a week. **Pkt. 10c.**

NASTURTIUM

Our Nasturtium seed is very carefully selected and the best on the market. Very easily grown and remain longer in bloom than any other flower. In good soil they are produced in abundance throughout the season. Sow in spring in well-drained, moderately rich soil.

Dwarf. **Pkt. 5c; oz. 15c.** **Tall.** **Pkt. 5c; oz. 15c.**

NEMOPHILA (Baby Eyes) 6 in.

Hardiest of annuals, and of the easiest culture. Makes a very effective front row to a bed or border, and should be sown out of doors in spring, in patches, where they are to flower. Mixed colors. **Pkt. 10c.**

NICOTIANA

Flowers salver-shaped with long tubular corollas. About 2 feet high. **Pkt. 10c.**

NIGELLA

(Love In a Mist or Devil in the Bush)

A compact free-flowering plant with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil, hardy annuals; blue and white mixed; 1 foot. Mixed, **pkt. 10c.**

PANSY

There is no flower in the world that creates more lasting impression, is more dearly beloved, more satisfactory to grow, than the pansy. Considered everywhere "the flower for the millions" and it is grown by the millions. The most important essential for true, pure, high class pansies is the seed. We make a specialty of flower seeds. Our strains will please you.

Giant Flowering. **Pkt. 10c.** **Trimardeau.** **Pkt. 10c.** **Extra Selected.** **Pkt. 25c.**



Nasturtiums

PETUNIA

Plant in a warm, open, sunny place. Seeds may be sown directly in the open ground or the plants may be started in pots indoors for early results. When well started they grow almost as easily as weeds. The plants start to bloom when very small and continue until frost.

- Fine Mixed. Pkt. 5c.**
- Single Choice Mixed. Pkt. 10c.**
- Single Blotched and Striped. Pkt. 10c.**
- Double Large Flowering. Pkt. 25c.**

PHLOX DRUMMONDII (Flame Flower)

The hardy annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care. There are few desirable colors beyond their range, and if given good soil and plenty of water they furnish a long supply of delicate flowers. **Mixed. Pkt. 10c.**

PINKS

One of the most useful and desirable plants and for beauty and variety of colors and markings cannot be surpassed, ranging from pure white to the most delicate pink and glowing deep crimson. A bed of these in a flower garden will make a grand display at a small cost. Plants from seed grow and bloom very quickly. Will bloom first year.

- Chinese, mixed colors 10c.**
- Heddewigl, double 10c.**

PASSION FLOWER (Passiflora)

Half hardy Perennial Climber. Prettiest of all vines for outdoors or window culture. Flowers deep blue; highly attractive. Called Passion Flower by early missionaries in South America in allusion to a fancied representation in the blossoms to the implements of the Crucifixion. **Pkt. 10c.**

POPPY

If cultivated on good soil they will increase and multiply, and thrive for years. Cut flowers regularly and thus allow new seed pods to form. **Pkt. 5c.**
Poppy, California. See Eschscholtzia.

PORTULACA, or MOSS FLOWER

They are in bloom from about July 1st and last until frost. The soil need not be rich, the plants doing best in hot, rather dry, ground. They should have a sunny situation since in the shade the flowers are not fully expanded. About 9 inches high. **Double mixed. Pkt. 10c and 25c.**

RICINUS (Castor Oil Plant)

Fine for center of bed, as it gives a magnificent semi-tropical appearance, or planted thick, they make a fine screen or hedge.
Sanguineus. 6 ft. Green leaved, red stems. 1 oz. 20c; pkt. 5c.
Zanzibariensis Mixed. 10 to 12 ft. The ornamental leaves, beautifully lobed, are 2 1/2 to 4 ft. across. 1 oz. 20c; pkt. 5c.



Pinks

RHODANTHE (Swan River Everlasting)

A charming annual; succeeds in a light rich soil and a warm sheltered situation; valuable for pot culture; flowers everlasting; mixed colors; 1 foot. **Per pkt. 10c.**

SCARLET FLAX

A very fine flower for the garden. Flowers are of a scarlet color. **Pkt. 5c.**

SALPIGLOSSIS

A very showy flower for bedding or border; plants richly colored; funnel-shaped flowers, which are purple, scarlet, crimson, yellow buff, blue or almost black, beautifully marbled and penciled. **Pkt. 10c.**

SALVIA SPLENDENS (Scarlet Sage)

This plant lends itself to many uses; it makes a good pot plant, does well in window boxes, and is useful for cutting. Its best use, however, is as a hedge or border plant, for brilliant color effect.

Fireball. 1 1/2 feet. The bushy plant is covered with a great number of flower spikes of the most fiery scarlet. The plants branch freely, the side shoots often producing 4 to 6 flowering spikes. **Pkt. 15c.**

Mixed. The above sorts and others. **Pkt. 10c.**

SCHIZANTHUS

This is one of the daintiest of annuals. The seed germinates readily and in a few weeks the plant is a mass of small but bright flowers in a bewildering range of colors, all blotched and marked in contrasting shades. The foliage is delicate and fern-like. It may be sown in spring for garden decoration or may be seeded in fall in pots in the conservatory or house for spring blooming. **Pkt. 10c.**



Petunias

STOCK (Gilliflower)

Most popular for bedding, massing or pot culture; for brilliancy and diversity of color or profusion and duration of bloom it is unsurpassed. The Ten Weeks Stocks are generally cultivated, and flower from 10 to 12 weeks after being sown; they grow from 6 to 18 inches high, each plant forming a perfect bouquet of delightful fragrance. Half hardy annual. Ten Weeks New Giant. **Pkt. 10c.**

SUNFLOWER

Grows readily in any soil. Hardy annual.

Stella. Single. 4 feet. **Pkt. 5c.**

Double Chrysanthemum Flowered. **Pkt. 5c.**

SNAPDRAGON (Antirrhinum)

The Snapdragon is one of our finest perennials, flowering the first year from seed. Its bright colored, curiously formed flowers always excite interest. The rich spikes are beautiful for cutting and keep fresh a long time. Flower profusely through summer until frost.

Tall varieties mixed. **Pkt. 10c.**

Dwarf varieties, mixed. **Pkt. 10c.**

SWEET ALYSSUM

Hardy annual. Blooms early in spring; small, pure white flowers, which have a delicate fragrance. 8 inches high. **Pkt. 5c.**

SWEET SULTAN

Bushes 4 feet high, covered with large, beautiful flowers; will keep in water over a week. **Pkt. 5c.**

SWEET WILLIAM

This popular flower produces clusters of brilliant colored, sweet-scented flowers on stout stems. Their effect in beds and borders is wonderful. They require rich, well-manured soil to grow them to perfection. The Perennial sorts bloom the second year from seed and remain for years, but it is better if large flowers are wanted to raise young plants in summer from seed each year. The annual blooms early in summer from spring-sown seed and continues in flower until autumn.

Double Giant Flower (Perennial). Immense umbels of large double flowers. Mixed colors. **Pkt. 10c.**

Single Giant Flower (Perennial). Large heads of single flowers in a great variety of colors and markings. **Pkt. 10c.**

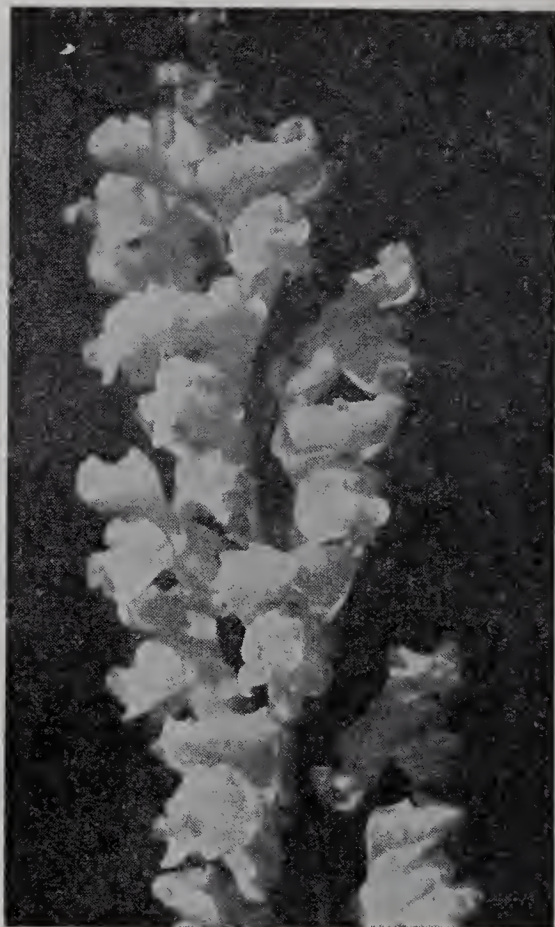
Annual Sweet William. A mass of beautiful coloring ranging from the snow white to the variegated rose. Blooms the first year. **Pkt. 15c.**

THUNBERGIA

Handsome climbing greenhouse perennial. Needs considerable sun; fine for baskets. Best mixed. **Pkt. 10c.**

SWEET PEAS

See Inside Back Cover.



Snapdragons

VERBENA

No flower garden is complete without verbenas. For beds on the lawn it has no equal. If sown in May will bloom in August, but if started in the house in pots in winter they will flower sooner and may be had in consistent bloom from June until frost. Seed should be soaked in lukewarm water before planting. Pink, blue, scarlet, mixed. **Pkt. 10c.**

VINCA

Height, 2 feet. Free-flowering, blooming the first season; glossy green foliage and handsome flowers; are entirely free from insects. Red and white, mixed. **Pkt. 10c.**

WALLFLOWER

An old favorite garden flower, highly prized for bouquets. Blooms early in spring and has beautiful large, spike-like flowers. **Single, mixed, pkt. 10c; double, mixed, pkt. 10c.**

WILD CUCUMBER

A very rapid-growing climber which reaches a height of 30 feet in one season. Covered with beautiful clusters of white scented flowers. **Pkt. 5c.**

DWARF GARDEN FLOWER MIXTURE

A mixture of the easiest and surest growing flower seeds. No climbers—mostly annuals. Results are surprising. Gives a wealth of blooms until frost.

In sowing broadcast simply rake the surface with a sharp-toothed rake and be sure to spread seed evenly. **Pkt. 10c; oz. 25c; 1/4 lb. 75c.**

XERANTHEMUM

(Everlasting, or Immortelle).

Annual. One of the prettiest and most satisfactory of the Everlastings, bearing an abundance of bright rose, purple and white flowers. Grows about 3 feet high, and can be sown in the open ground early in May. Mixed colors, **10c.**



Verbena



Sweet William

ZINNIAS

See Outside Back Cover.

SPRING BULBS

Bulbs require little or no attention after being planted and produce wonderful effects; and hence are much sought after.

Plant in April, as soon as all danger of frost is over, in rich soil, in a sunny position. After blooming, bulbs can again be removed, when the tops have died down in the fall. Store away in dry place until next spring.

CANNA ROOTS

Cannas should be planted in good, rich garden soil mixed liberally with sheep manure. See page 37. Water sparingly for first two weeks after planting. When growing freely, water liberally. Set the plants 18 inches apart each way, and if more than one kind is used, be careful to plant the taller growing kinds in the center and the dwarf ones along the edge. This applies to planting in beds.

Add 10c per dozen for postage.

We offer the excellent varieties described below of dormant roots.

- Allemania.** 4 to 5 feet. Orange red, bordered with yellow.
 - Buttercup.** 3 feet. Deep buttercup, yellow, almost pure. Very effective.
 - Chas. Henderson.** 3 to 3½ feet. Flowers brilliant crimson scarlet. A profuse bloomer. Good for bedding.
 - Mad. Crosby.** 2½ feet. Vermilion scarlet with narrow gilt edge.
 - Duke of Marlborough.** 4½ feet. Deep crimson.
 - Florence Vaughan.** 3 to 3½ feet. Yellow, spotted red.
 - King Humbert.** 4 to 4½ feet. A combination of the highest type of brilliant orange scarlet flowers with finest bronze foliage.
 - Louisiana.** 5 to 6 feet. Orchid flowering type. Soft glowing scarlet, with orange throat markings.
 - Mille Berat.** 4 feet. The nearest approach to a pink in a first-class bedder.
 - Pennsylvania.** 5 feet. Flowers extra large, deep red of solid color.
 - Souvenir D'Antoine Crozy.** 3½ feet. Intense crimson scarlet, with broad golden yellow border.
 - Wyoming.** 6 feet. Massive orange flowers. Bronze purple foliage.
- Separate colors or mixed \$1.00 per dozen.**



King Humbert Canna

DOUBLE DAHLIA ROOTS

The flowers are so symmetrical and perfect and the range of colors so large and varied that they will always be popular where display is wanted. The roots are tender and easily injured by frost; they should be set out three feet apart, after all danger of frost is over, and, during winter, placed in a cool cellar, but not allowed to freeze. The plants should be supported by tying to stakes. The varieties we offer have been carefully selected; all possess qualities of highest excellence.

Add 15c per dozen for postage.

	Each	Doz.
Red Shades	\$.25	\$2.00
Pink Shades.....	.45	4.50
Yellow Shades.....	.25	2.00
White Shades.....	.45	4.50
Variegated Shades.....	.25	2.00
Mixed All Colors.....	.25	2.00



Peonies are Beautiful

PEONIES

Are among the most showy and useful of hardy plants. They are all hardy and admirably adapted to the climate of our most northern states, growing well in almost any situation or soil. We offer a splendid assortment. State color desired, red, white, or pink.

Each 50c; by mail, 60c; doz. \$4.75; if by mail, \$5.15.



Jack Rose Dahlia

SPRING BULBS—Continued.

ELEPHANT EARS, OR CALADIUM ESCULENTUM

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. 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, but they should be shaded from the bright sunlight.

	Each	Doz.
Large bulbs	\$0.35	\$3.50
First size bulbs .....	.25	2.50
Medium bulbs .....	.15	1.50

If by mail add 7c for first bulb and one cent for each additional bulb.



Double Dwarf Pearl Tuberose

GLADIOLUS

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 easy of cultivation and blooms the first season. Gladioli thrive in almost any good soil except a stiff clay, require full sunlight and are 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. In 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 renewed. Store in a cool, dry place, secure from frost, until spring. **Mixed colors 45c per dozen; \$3.50 per 100.** If by mail add 10c per dozen.



Elephant Ears

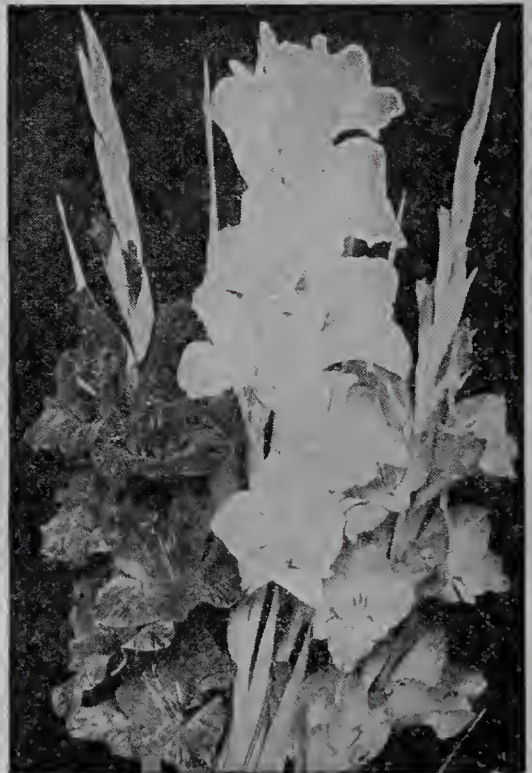
TUBEROSE

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 Tuberoses 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. **Doz. 65c; \$4.00 per 100.** If by mail add 10c per dozen.

MADEIRA VINE

Tuberous 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. **3 for 20c; 12 for 65c.**



Mixed Gladiolus



Bumper Crops and a Bigger Bank Roll at the End of a Season Well Begun by Planting Petersen's Tested Seeds

PETERSEN'S FIELD SEEDS

ALL PRICES ON FIELD SEEDS ARE SUBJECT TO MARKET CHANGES. ALL ORDERS FILLED TO THE AMOUNT OF REMITTANCE AT MARKET PRICES WHEN ORDER IS RECEIVED.

If by mail, consult Parcel Post rates on Inside Back Cover.

CLOVER SEED

	1 lb.	10 lbs.	100 lbs.
ALFALFA			
Kansas, non-irrigated.....	\$0.30	\$2.20	\$16.50
Northwestern.....	.30	2.35	19.50
Grimm Affidavit.....	.40	2.65	22.50
Grimm State-sealed in 1-bu. bags.....	.50	3.25	28.50
Dakota No. 12.....	.40	2.55	22.00
All above seed U. S. Verified Origin.			
Don't forget to inoculate with NITRAGIN. See page 44.			
RED CLOVER—Hardy Domestic			
Extra Fancy.....	.40	2.45	20.00
Choice.....	.35	2.30	18.50
Sapling.....	.40	2.65	22.00
Don't forget to inoculate with NITRAGIN.			
SWEET CLOVER			
White, Scarified Extra Fancy.....	.20	1.10	7.50
White, Scarified Fancy.....	.20	1.00	6.75
White, Unhulled.....	.15	.90	5.50
Yellow Biennial.....	.20	1.10	7.50
Hubam White Annual.....	.25	1.45	11.75
Don't forget to inoculate with NITRAGIN.			
ALSIKE			
Extra Fancy.....	.35	2.10	18.50
Choice.....	.35	1.90	17.00
Don't forget to inoculate with NITRAGIN.			
CRIMSON CLOVER			
Sow from May to October.			
Fancy.....	.25	1.50	11.50
Don't forget to inoculate with NITRAGIN.			
WHITE DUTCH CLOVER.....			
	.65	6.00	
JAPAN CLOVER OR LESPEDEZA			
Common.....	.25	1.45	11.00
Korean.....	.35	1.75	15.50
Don't forget to inoculate with NITRAGIN.			

DWARF ESSEX RAPE

The best fodder for hogs, sheep and cattle. Plant at first resembles the Rutabaga, but the tops become very large and leafy; if gives a luxuriant pasture and a tremendous yield. One acre will pasture 36 head two months, and lambs will make a gain from 8 to 12 pounds per month. Hogs and cattle are also very fond of it. Thrives best in cold weather and the ground should be prepared same as for turnips. Especially adapted for a catch crop, succeeding when other crops have failed. If sown in May it grows rapidly and can be cut or pastured the latter part of July. If sown the first half of July it will be valuable as a fodder in September, October and November. When sown broadcast use 8 pounds to the acre; if in drills and cultivated, 3 pounds to the acre. We carry the genuine stock. **Lb. 25c, postpaid; 10 lbs. \$1.25, postpaid. By freight or express, 100 lbs. \$6.00.**

GRASS SEED

PETERSEN'S GREEN LAWN GRASS SEED. See description and price, inside front cover.

KENTUCKY BLUE GRASS. Makes the best, sweetest pasture and most nutritious for all kinds of stock. It is now possible to establish on most any farm a blue grass pasture of greatest verdure which will give very profitable returns. This grass is the first to start up in the spring and remains green until snow flies in the fall. Very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoofs. Roots are so thick and stout as to form a tough sod. Requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. From 20 to 25 pounds of seed required to the acre when sown alone. We wish to call particular attention to the cleanliness of our Blue Grass. We sell Kentucky Blue Grass at the lawful weight of 14 pounds to the bushel. Its uniform growth and its beautiful color make it also very desirable for lawns. Our brands are used extensively throughout the parks. **Lb. 35c; 7 lbs. \$1.60; 14 lbs. \$2.95:**

For Extra Fancy Kentucky Blue Grass, see Inside front cover.

PERENNIAL RYE GRASS. Becoming well known in this country as a valuable pasture grass which will bear frequent close cropping. Produces an abundance of foliage which remains bright and green during the season. The hay is relished by all kinds of stock. It will grow well on almost any land but does better on such land as will produce a good corn crop. Sow 30-40 pounds to the acre. **Lb. 20c; 14 lbs. \$1.65.**

ITALIAN RYE GRASS. This is, like the Perennial Rye Grass, valuable for pasture, and also for hay. It thrives on rich, moist land, where from three to four cuttings may be made in a season. It grows very quickly and will stand close pasturage. About 24 pounds of seed required to the acre. **Lb. 25c; 14 lbs. \$1.75.**

ORCHARD GRASS. Valuable for pasture or hay land, and on account of its earliness is very well adapted for a permanent pasture. It furnishes the first green grass in the spring and until late in the fall. When closely cropped it grows up very quickly and is ready for grazing again in ten or twelve days. When grown for hay, more than one crop can be obtained in one season, and when only one crop is cut the aftergrowth is very heavy and gives splendid and rich pasture till late in the fall. It will stand drought and is hardy. Grows in tufts, and is best sown with red clovers, rye, grass, etc. Well suited for shady places, such as orchards and groves. Grows on all kinds of land but does best on deep, rich, sandy loam or clay soils. Sow 22 pounds to the acre when alone or proportionately with other grass. **Lb. 25c; 14 lbs. (bu.) \$1.60.**

RED TOP (Recleaned, Solid Seed). A valuable grass for moist, rich soils, where it thrives very luxuriantly. A good variety to sow with timothy and clover for meadow or pasture and is more permanent than either of the other two. On good soil it grows about two feet high; on poor gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. Red Top is commonly known as Herd's Grass, and should be more extensively grown, especially in combination with other grasses. Solid Seed Red Top is free from chaff. Fifteen pounds to acre. **Lb. 30c; 10 lbs. \$1.65; 100 lbs. \$12.50.**

ALSIKE AND TIMOTHY MIXTURE. If you plan to grow for hay or pasture, then the Alsike and Timothy Mixture will give you splendid satisfaction. The two varieties are adapted for the same kind of soil, and the price is very reasonable. **Per lb. 20c; 15 lbs. \$1.65; 50 lbs. \$4.25; 100 lbs. \$8.25.**

BERMUDA GRASS. A dwarf perennial plant and spreads by means of its long, many-jointed root stalks and for this reason is hard to eradicate when it has once secured a foothold. Is not affected by hot weather and will live under water for a long time. Makes a durable lawn and is also good to hold embankments. Seed is very slow to germinate and requires heat and moisture. Sow 10 pounds to the acre. **Lb. 40c; 10 lbs. \$2.65.**

ENGLISH BLUE GRASS, or MEADOW FESCUE. Especially adapted for permanent pasture and is also fine for hay. Grows two to three feet high but not in tufts like Orchard Grass. The hay is very nutritious and cattle thrive on it whether dry or green. Succeeds even in poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. As a fertilizer it has valuable properties. Will stand freezing very effectually. About 24 pounds of seed is sown to the acre. **Lb. 30c; 10 lbs. \$1.25; 100 lbs. \$8.25.**

TIMOTHY. As a crop for hay, timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. Not suited for a permanent pasture, as it will in the course of a few years run out. Well adapted to early spring grazing as it starts up quickly in the spring, and in favorable fall weather can be pastured in autumn as well. The largest crops of hay are raised on rich land. Not suited for light, sandy soil so well as some other grasses. The most important point in the growing of timothy is the selection of good seed. Poor seed, besides containing weed seed, will not all grow. That which does germinate is weak and produces few stalks and seed heads. Only 11 pounds of seed required to the acre, when sown alone. **Lb. 15c; 10 lbs. \$1.00; bu. \$3.25; 100 lbs. \$6.50.**

GOLDEN MILLET (True Southern-Grown Seed). In the North, Millet is sown almost altogether for hay, and for that purpose Southern-grown seed is best. It grows taller than that from Northern seed, and that means more hay. It is finer than that from Northern seed, and that means better hay. In fact, from the standpoint of profit, a farmer had better pay \$5.00 a bushel for the true Southern-grown Golden Millet than to sow the best Northern Millet as a gift. Millet seed produced in the North, even from Southern seed, becomes what we call Common Millet. Not only does the plant change in character, becoming coarser and much more dwarf, but the seed itself shows a change, and is readily distinguished by those experienced in handling it. We wish to say that any Millet seed offered and shipped by us as Southern-grown seed can be relied upon to be genuine stock, true to name. About three-fourths of a bushel of seed is sown. Tender if cut when in full bloom. A yield of five tons per acre is nothing unusual. **Lb. 20c; 3 lbs. 45c; postpaid. By freight or express, not prepaid: 10 lbs. 80c; 100 lbs. \$3.75.**

NORTHERN GROWN GOLDEN MILLET (German). This grows very rank and is one of the best varieties for hay or fodder. On good, rich soil it will make a growth of 4 to 5 feet high, and although the hay may seem coarse, yet it is so tender that if cut at the right stage, which is when in full bloom, even the hogs will eat the cured hay quite greedily. A good yield is from 3 to 5 tons of hay to the acre. Sow three pecks per acre. **Lb. 20c; 3 lbs. 45c; postpaid. By freight or express, not prepaid: 10 lbs. 80c; 100 lbs. \$3.25.**

PERMANENT PASTURE MIXTURE. To get a really good pasture that will last for many years it is necessary to sow grasses that will form a close, heavy turf and such as are not injured by close cropping and tramping of the animals. There are many grasses of this kind. Some start early in the spring and others continue growing late in the fall, so a considerable number of different kinds should be used. With this thought in view we have made a mixture best suited to make a permanent growth calculated to give a crop of hay if so desired or a good pasture. Sow 25 to 30 pounds to acre. **Lb. 25c; 10 lbs. \$1.50; 100 lbs. \$11.25.**

If by mail, consult Parcel Post rates on Inside Back Cover. Prices Subject to Market Changes.

FIELD CORN

If by mail, add postage.

Eight pounds plant one acre in hills. Corn weighs 56 pounds to the bushel. Grown from carefully selected stock. Good Seed Corn is very scarce this year. Order early.

CHAMPION WHITE PEARL. The earliest snow-white dent corn. Grown extensively by gardeners for roasting ears. Very productive and exceedingly heavy. Matures in 85 to 90 days from time of planting. Grain deep and wide, cob small. **Peck, 75c; bu. \$2.00.**

IMPROVED LEAMING. A productive and early producer of moderate-sized ears, bearing orange-colored, deep, long grains. This sort will thrive on thinner soil than the Golden Beauty, and will mature a crop in 90 days. **Peck 75c; bu. \$2.00.**

FARMERS' FAVORITE. A large, early yellow dent. A grand yielder. Will mature thoroughly in this climate. (110 days.) **Peck, 75c; bu. \$2.00.**

PETERSEN'S GATE POST. A very deep yellow grain, with thin cob. Out of 100 pounds of corn, cobs weighed 15 pounds. Highly recommended. **Peck 75c; bu. \$2.00.**

REID'S YELLOW DENT. The most popular Yellow Dent Corn. A true dent corn with a beautiful golden color and one of the smallest cobs for size of ear of any yellow corn. Ears are frequently eleven inches long and mature in about 110 days. Has taken more prizes at state fairs than any other variety. **Peck 75c; bu. \$2.00.**

BOONE COUNTY WHITE. Large ears, growing 7 to 10 in. in circumference and from 10 to 12 in. in length and containing 18 to 24 rows. Stalk very large, with an abundance of foliage, making it an ideal fodder corn. (120 days.) **Peck 75c; bu. \$2.00.**

GOLDEN BEAUTY. Productive of immense crops of large ears on rich soil. Well covered with showy golden grain. The handsomest of all. Yields about 100 bu. of shelled corn to the acre. 120 days. **Peck, 75c; bu. \$2.00.**

GOLDEN DENT SHOWY. Named from the bright color of the indented grain; a prolific variety. (110 days.) **Peck 75c; bu. \$2.00.**

IOWA GOLD MINE. Medium early, deep grain, good sized ears of a bright golden-yellow color, small cob. (110 days.) **Peck 75c; bu. \$2.00.**

HICKORY KING. A mammoth white dent, wonderfully productive. Yields splendidly on light soil. Matures in 110 days. **Peck 75c; bu. \$2.25.**

ST. CHARLES WHITE. An old, well-known variety, with red cob, with 18 to 24 rows of pearly white grain. (120 days.) **Peck 75c; bu. \$2.00.**

IOWA SILVER MINE, THE GREAT \$1,000 CORN. A beautiful corn, grows to the height of 8 ft. and sets the ears about 3 to 4 ft. from the ground. A sure cropper; very early; deep grain and pure white. The ears have 16 rows, very straight and close together. Succeeds well on thin land. (100 days.) **Peck 75c; bu. \$2.00.**

We have the following varieties in Commercial Grades, double machine cleaned, good germination.

White 90-Day
Boone County White

St. Charles
Iowa Silver Mine
Leaming—Early Yellow

Reid's Yellow Dent
Iowa Gold Mine

Peck 50c; bu. \$1.25. If by mail, add postage.

Corn diseases are controlled by Semesan Jr. Dust Disinfectant. Write for booklet. Prices, 4 ozs. 60c; lb. \$1.75.

See page 43 for Semesan, Jr.

BARLEY

Sow 2 to 3 bushels to acre, broadcast.

WINTER BARLEY. The earliest Barley in existence and a heavy yielder. **Price, lb. 15c; pk. 50c; bu. \$1.25 by freight.**

SPRING BARLEY. A splendid variety, but a little later than the above. **Price, lb. 15c; pk. 50c; bu. \$1.15.**

BROOM CORN

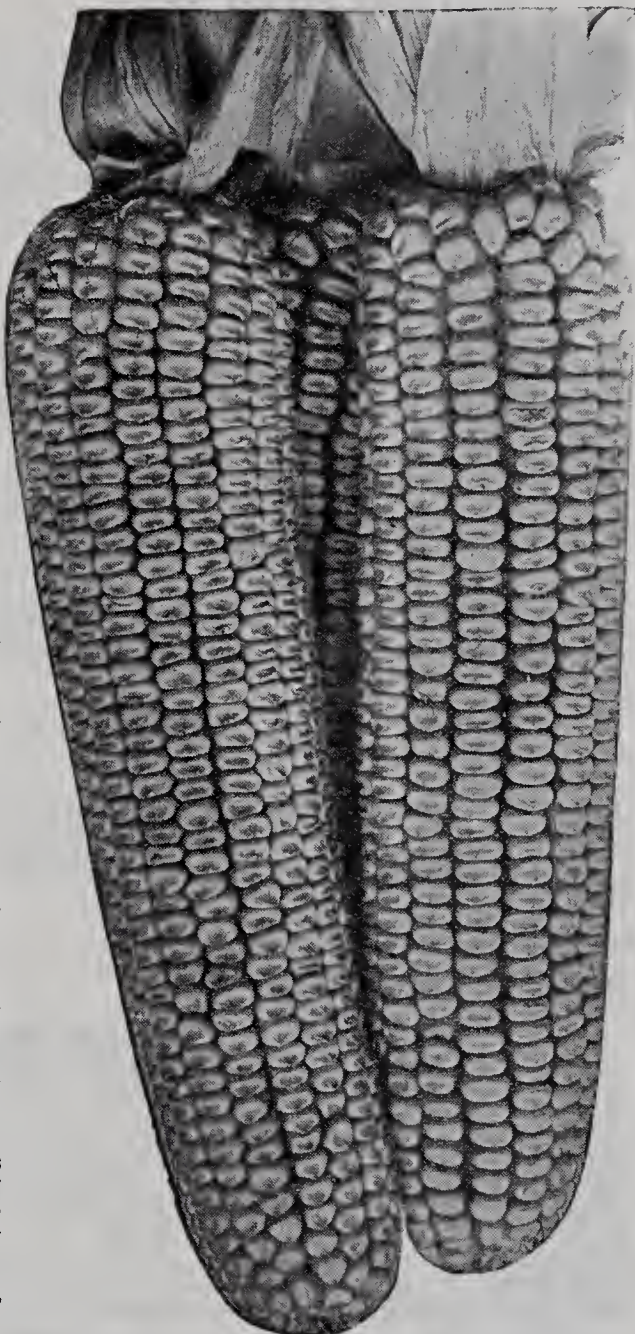
CULTURE.—It requires similar soil and culture as corn, but should be planted later; have the ground in prime condition. It is frequently planted in drills three and a half feet apart, leaving the plants six inches apart.

EVERGREEN. Lb. 25c; 10 lbs. \$1.50 postpaid.

BUCKWHEAT

JAPANESE. Entirely distinct from all other varieties. Has the advantage of remaining for some time in bloom and produces seed earlier. On this account it can be grown farther north. Resists drouth and blight very well. Seed is rich dark brown in color and larger than Silver Hull. A fine variety for honeybees. As much as 40 bushels to the acre has been harvested of this variety, making it very profitable to raise. Sow 26 lbs. to the acre. **Pk. 85c; bu. \$2.60.**

IF BY MAIL, ADD POSTAGE



Petersen's Gate Post

CANADA FIELD PEA

One of the very best soiling crops at the North. Sometimes grown alone, but the most satisfactory dairy results come from sowing it with oats, rye or barley. Makes good ensilage, and is an admirable food, either green or dry for cattle. Quite hardy and may be sown early in the spring, and will be ready to cut in May or June. The seed should be sown at the rate of 1 to 1½ bushels per acre. **Qt. 35c; pk. \$1.10; bu. \$3.70.**

CANE OR SORGHUM

For soiling or green feeding it is one of the best that can be used to feed growing animals and also dairy cattle on account of the large flow of excellent milk which it will produce.

Sweet Amber or Sorghum makes a good summer pasture for sheep and hogs. The hay is very palatable and nutritious and is relished by all kinds of stock. Cut when heading out, leave for two or three days on the ground and then put in shocks of about one load each. Unexcelled as a catch crop.

The Silage made of Earliest Sweet Amber or Sorghum is wholesome and nutritious. Cowpeas and Soybeans are quite often mixed with cane for the silo. This will greatly increase the feeding value. This seed has about the same nutritive value as corn. Requires 70 to 80 days to mature.

For fodder, broadcast 50 pounds per acre.

For syrup, sow in drills, 8 pounds per acre.

EARLY SWEET AMBER. Not only is it adapted for feeding purposes, but its great qualities as a sorghum producer are a paying investment, and has attracted general attention everywhere. **Lb. 15c; 10 lbs. 70c; bu. \$1.65.**

EARLY ORANGE. A variety well adapted for the South. It is from eight to ten days later than the Early Amber. **Lb. 15c; 10 lbs. 75c; bu. \$1.85.**



Early Sweet Amber Cane

STOCK OR COWPEAS

Prices subject to change.

Rank with clovers as one of the best soil builders. Splendid for pasture, soiling and silage—all stock eat it and thrive on it, as Cow Peas have a very high feeding value. Like Soy Beans, they may be planted with corn. Sow from 1½ to 2 bushels per acre. Cow Peas should not be planted until the ground has become warm.

CLAY. One of the best peas for fertilizing, being a vigorous grower and in the South an abundant bearer. Begins to bear about two months after being planted. **Price, \$1.65 per bushel.**

NEW ERA. Two weeks earlier and in size it is one-third smaller than the Whippoorwill, and matures early enough in the fall to harvest in time to sow winter wheat on the same field. They produce more seed than Whippoorwills, and where known are used almost exclusively. **Bu. \$1.65.**

WHIPPOORWILL. The seeds are large, speckled brown in color. **Bu. \$1.85.**

MIXED PEAS. We usually have a quantity of mixed varieties which are somewhat cheaper in price. **Bu. \$1.50.**

Be sure to inoculate cow peas. See page 44.

GROHOMA

THE WONDER GRAIN AND FODDER CROP. This new crop is a result of grafting Kaffir Corn and Cane. Known to produce 100 bu. of seed to the acre. Has large root system and is drought resistant. Matures in about 90 days. Grohoma reaches maturity for second time in forty-five days after first cutting. Best fodder that can be produced for hogs and other stock. Three pounds will plant an acre. **1 lb. 40c; 5 lbs. \$1.75; 10 lbs. \$2.85.**

KAFFIR CORN

WHITE KAFFIR CORN. A variety of sorghum, cultivated for both forage and grain, growing from 4½ to 6 feet high; is stocky and erect, and has wide foliage. Kaffir Corn has the quality of resisting drouth, and in this fact is to be found its peculiar value. For grain, sow 5 lbs. seed per acre; for fodder, 28 to 56 lbs. to the acre, either in drills or broadcast. **Postpaid 1 lb. 25c; 3 lbs. 55c. Not prepaid, 15 lbs. 75c; 50 lbs. \$3.25.**

MILO MAIZE CORN

Excellent fodder plant for feeding. A splendid feed for all kinds of stock and will produce an amazingly large crop of the richest green fodder. Will grow anywhere. Grows 9 to 10 feet tall and branches freely. The seed heads produce a large quantity of grain which is excellent food for fowls. For grain, plant one bushel to 15 or 20 acres, same distance apart as Indian Corn. Yields about 75 bushels per acre. **Postpaid, 1 lb. 25c; 3 lbs. 55c. Not prepaid, 100 lbs. \$3.25.**

OATS

FANCY NORTHERN WHITE SEED OATS. The popular variety that is used in large quantities and has a very plump kernel. It ripens early and produces an abundant crop. Straw is of medium length and stands well. **Price, bu. 60c; per bag (5 bus.) \$2.40.**

FULGHUM OATS. Large yielder, makes large leafy growth with long well-filled heads. **Price, bu. 65c; 5 bu. \$2.60.**

TEXAS RUST-PROOF. The best rust-proof variety on the market today and is grown extensively. It is an immense yielder and sure cropper. **Price, bu. 65c; per sack (5 bus.) \$2.65.**

WINTER TURF SEED OATS. Sow in October or early November. Makes a good growth before winter sets in and furnishes the finest green pasturage all winter through and a good crop of grain the following spring. **Price, bu. 95c; per sack (5 bus.) \$4.00.** For larger quantities, prices on application.

EARLY BURT OATS. Thoroughly tested and tried and always a sure cropper. Earliest oats grown. Grown largely in the South. **Price, bu. 65c; 5 bus. \$2.65, sack included.**

If by mail, consult Parcel Post rates on Inside Back Cover.

PEANUTS

The peanut thrives best on a light, sandy soil. Plant in April. Will produce from 25 to 75 bushels per acre, according to the soil, and are as easily cultivated as corn. **Qt. 25c; gal. 75c.**

POP CORN (For Popping)

JAPANESE HULLESS. South American. Queen's Golden. Not tested for Germination. **1 lb. 10c; 5 lbs. 45c; 10 lbs. 80c.**

SOJA OR SOY BEANS

Weight, 60 lbs. per bushel.

CULTURE.—Sow about May 1st according to instructions given below.

The use of Soy Beans is constantly increasing on account of their value as a forage and feed crop as well as their great fertilizing properties. They can be sown with Cow Peas to hold the pea vines off the ground, which thus can be cut and cured to better advantage for hay. They can be grown generally where corn can, and do equally well on light and heavy soils. Where a crop of Soy Beans is growing it is nearly impossible for weeds to grow. For hay or fertilizer they should be sown from 60 to 90 pounds to the acre. When sown for ensilage it is better to sow in corn at 15 to 20 pounds to the acre. Sow for the shelled beans at the rate of 60 to 90 pounds to the acre, in drills $3\frac{1}{2}$ feet apart, and cultivate.

We can make interesting prices for larger quantities.

ILLINI YELLOW. Heaviest fodder producer; does equally well on light or heavy soils. **Bu. (60 lbs.) \$1.35.**

VIRGINIA. A brown-seeded variety, grows about 50 inches high, rather slender and climbing in habit of growth; matures in 125 days. Very popular and one of the heaviest producers of fodder. **Lb. 15c; 10 lbs. 60c; bu. (60 lbs.) \$1.50.**

WILSON BLACK. A very satisfactory variety to grow in the northern states where a quick, early shell bean or hay variety is desired. Plants average $2\frac{1}{2}$ to 3 feet in height on good land. Branches well and is a prolific cropper. Requires about 90 days to be ready to cut for hay. **Lb. 15c; 10 lbs. 60c; bu. (60 lbs.) \$1.75.**

MIXED, EARLY, FOR HAY. **Bu. (60 lbs.) \$1.25.**

MAMMOTH YELLOW. Early, Illinois grown. **Bu. \$1.25.**

EBONY. Medium early, excellent for hay. **Bu. \$1.65.**

LAREDO. Late black. Hay producer. **Bu. \$1.95.**

If by Parcel Post, consult Postal Directions on Inside Back Cover.

Be sure to inoculate Soy Beans. See page 44.

SUDAN GRASS

Matures in about 80 days. This wonderful drought-resisting grass was introduced into this country eight years ago by the United States Department of Agriculture from the Sudan in Egypt.

It was tried out in Texas where the Department of Agriculture and the Texas State Experiment Station conduct jointly Forage Crop Work. It is a tall annual grass, and ranges in height from 4 to 8 feet. Stems are small and somewhat more leafy than Johnson Grass, which it most nearly resembles, though it is entirely different from Johnson Grass. Like the sorghum crop, it must be planted each spring and dies when the first frost comes. Its feeding value marks it easily as one of the dependable crops for the farm. Stock of all kinds will eat it readily. It requires 5 pounds of seed per acre, sown in drills; broadcast, 15 pounds. Prices, by parcel post, prepaid: **Lb. 20c; 3 lbs. 50c; 10 lbs. \$1.00.** By freight or express, **\$4.00 per 100 lbs.**

SUNFLOWER SEED

Mammoth Russian. Sunflower seed is one of the best egg-producing foods for poultry. The leaves make excellent fodder, being relished by all kinds of stock. The flowers are from 18 to 20 inches in diameter and produce an abundance of seed which is a good food for hogs and yields a fine quality of oil. Can be sown any time before the middle of July. Plant in hills, allowing 3 to 4 plants to each hill, $3\frac{1}{2}$ to 4 feet apart each way or in drills. Six quarts will sow an acre. Cultivate the same as corn. **Price: 1 lb. 20c; 5 lbs. 65c.** We have the genuine stock.

VETCH

Winter—Sand or Hairy Vetch—(Vicia Villosa). A very valuable forage plant—and becoming more popular every year. It belongs to the pea family, but the vines much longer and the foliage more abundant. It improves the soil, being a great nitrogen gatherer. An annual, but drops its seeds freely and will come up year after year on the same ground. They can be plowed under same as cow peas. It is advisable to sow oats, barley or rye, etc., with Vetch which serves as a support for the plants. It succeeds on almost any soil and should not winter-kill. A sowing in August or September covers the ground before winter and prevents washing during the winter and early spring. Can also be sown in April and will be ready to cut by the middle of July, the second growth affording excellent hog pasture during the summer. The yield of forage varies from ten to fifteen tons per acre equal to three or four tons when cured as dry hay. Would suggest sowing about 30 pounds to acre. **Lb. 25c; 10 lbs. \$1.65; 100 lbs. \$11.00.**

If by mail, consult Parcel Post rates on Inside Back Cover.



Sudan Grass

WINTER RYE

Winter Rye. This supplies a quick-growing crop that is desirable to plow under for green manure or can be pastured and cut early in the spring. Hardy and seldom winter-killed. May be sown $1\frac{1}{2}$ to 2 bushels per acre. **Lb. 10c; pk. 40c; bu. \$1.15.**

Write for prices in larger quantities.

Our rye is very carefully selected seed and northern grown.

WINTER WHEAT

We handle only the superior grades and our customers have always been pleased with their crops. Our next fall supply will be grown from pedigree seed by a Wheat Grower of the highest repute, and our customers can rely upon getting grain good to name, even, and a good color. Write for prices.

FANCY NORTHERN SEED WHEAT

Fultz.
Fulcaster (Bearded Wheat).
Amber.

Mediterranean Fultz.
Prosperity.

Red Wave
Spring Wheat

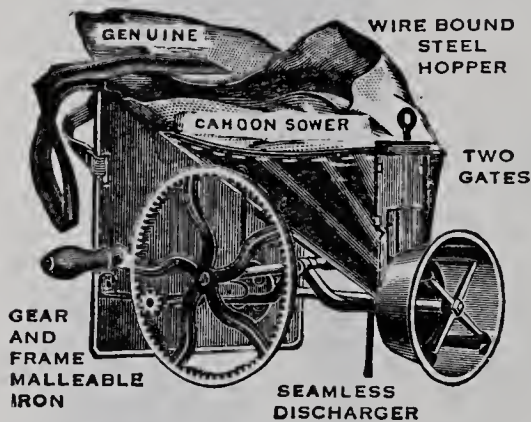
And other varieties.
Prices on application.

If by mail, consult Parcel Post rates on Inside Back Cover.

SEEDERS and SOWERS

CAHOON SOWER

For sowing wheat, oats, barley, rye, buckwheat, grass seed, rice, flax, etc. Sows from 4 to 8 acres per hour at an ordinary walking gait, throwing out wheat about 40 feet wide. Strong, light and easy-running. **Price, each \$4.15; \$4.50 postpaid.**

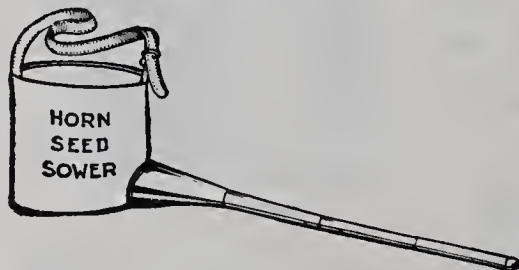


**YOU
WILL
NEED
THESE!**



CYCLONE SEED SOWER

Sows all kinds of seeds and grain; throws the seed in same manner as the Fiddle-Bow, but being geared, will throw it more evenly. **Price, each \$1.80; \$2.00 postpaid.**



HORN SEED SOWER

This sower surpasses all others on account of its simplicity, accuracy, and the evenness with which the seed can be sown. The wind has absolutely no effect on this machine, and the seed can be thrown 30 to 40 ft.

This seeder will be sent by mail upon receipt of 90c.
Price, at store 75c.

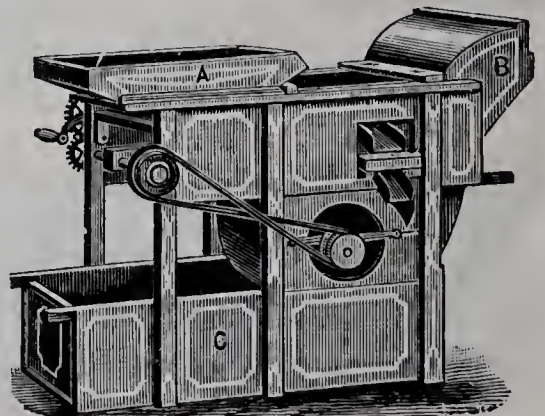
Improved Clipper Cleaner

A Perfect Clover, Timothy, Grain, Wheat, Oats, Rye and Seed Cleaner.

A complete set of 12 screens with each Mill for cleaning Grain, Seed, Beans, etc. A perfect Corn grader. Can be run as Power Machines.

No. 1B. Capacity, Wheat and other grain 20 bushels per hour; Clover and other seed 10 bushels per hour. Shipping weight, 185 lbs. Length, 4 feet 8 inches; height, 3 feet 8 inches. **Price, \$32.75, F. O. B. St. Louis.**

No. 2B. Capacity, Wheat and other grain, 25 bushels per hour; seeds, 15 bushels per hour. **Price, \$39.90, F. O. B. St. Louis.** Circular sent upon request.



FERTILIZERS

For Lawn, Farm, Garden and Greenhouse

Increase Your Farm Profits by Raising Larger Crops

SULPHATE OF AMMONIA

Ammonia, 25 1/4%, guaranteed. Quickly available; not easily leached from the soil; fine and dry, easily spread by hand or machine. Ideal for top dressing grain, meadows and lawns. Apply 100 lbs. to 150 lbs. per acre. Ask for pamphlet. **50 lbs. \$1.75; 100 lbs. \$3.25.**

LOMA

The scientifically prepared plant food will give you results that are startling. Grass, flowers, shrubbery. Gardens respond quickly to this perfect plant food. **5 lbs. 50c; 10 lbs. \$1.00; 25 lbs. \$1.75; 50 lbs. \$3.00; 100 lbs. \$5.00.**

ADCO

Turn Garden Refuse Into Manure.

Every bit of non-woody refuse that comes from your garden—cuttings, leaves, vines, etc.—should be mixed with "ADCO," kept moist and thus converted into high-grade manure.

Simple directions accompany every package. Drop us a card and we will gladly send full particulars free.

PRICES

- ADCO, in 25 lb. bags, each..... \$2.00**
(Enough for 12 wheelbarrow loads of garden waste, making about one-half ton of manure.)
- ADCO, in 100 lb. bags (4—25s), each..... 7.75**
(Enough for a heap 6 ft. x 6 ft. x 6 ft., making about two tons of manure.)

MAKE YOUR GARDEN PAY

Don't waste time and seed trying to make things grow in a wornout, sick and hungry soil. You can have wonderful success in all your garden efforts by using the proper fertilizer.

VIGORO

See Page 42

Wizard Sheep Manure

A natural plant food and soil conditioner, dried; sterilized; weed seed killed. It improves growth, makes far better quality, increases production of all plants, grass, flowers, vegetables and fruits.

Use 10 lbs. for each 100 square feet of surface, or one to 10 pounds for each shrub, tree, vine, etc., depending on size. Always mix well with the soil. Remarkable results show quickly. Unequaled for house plants, window gardens, and everything that grows outdoors. Ask for FREE booklet. Don't plant without WIZARD.

By express or freight, not prepaid, 5 lbs. **35c**; 10 lbs. **50c**; 25 lbs. **\$1.00**; 50 lbs. **\$1.60**; 100 lbs. **\$2.60**; 500 lbs. **\$12.00**. Special prices in ton lots. If by mail, add postage.

PURE BONE MEAL

Ammonia 1 1/4%, Phosphoric Acid 29%

Warranted pure. An excellent fertilizer for top dressing lawns, pastures and meadows, also in the vineyard and about fruit trees. It carries nitrogen and phosphoric acid, but no potash, and may be applied at any time of the year. It keeps on feeding the soil for fully 10 months. Use 400 to 600 pounds per acre. By express or freight, not prepaid, 5 lbs. **45c**; 10 lbs. **75c**; 25 lbs. **\$1.50**; 50 lbs. **\$2.50**; 125 lbs. **\$3.75**.

HYDRATED LIME

Sweetens the soil and corrects acidity, making plant food elements more available. Excellent for lawns, apply 1 ton per acre. **10 lbs. 35c; 50 lbs. 90c; 100 lbs. \$1.70.**

ACID PHOSPHATE

Twenty per cent available phosphate. Used largely on vegetable and grain crops requiring great amounts of phosphoric acid. Apply 1,000 pounds per acre. **125 lbs. \$2.45; 500 lbs. \$9.00; ton \$32.75.**

VEGETABLE AND FRUIT FERTILIZER

A fertilizer especially prepared for vegetables and fruits. The analysis is made up in the proper proportion to the plants and will bring them to maturity as early as possible. For vegetables this can be used with excellent results. 500 to 1,000 lbs. to the acre.

Price per bag (125 lbs) **\$3.25** per ton **\$39.50**. Guaranteed analysis:

Ammonia.....	3%
Phosphoric acid available.....	8%
Potash.....	6%

NITRATE OF SODA

Used largely to produce a quick growth, especially in garden crops, bringing them on very rapidly. Used largely to stimulate the growth of grass in the spring. It can be used as a top dressing for vegetables at the rate of 100 lbs. per acre after they are well started. When used in a small way, one ounce to 8 quarts of water is sufficient. Price, 15c per lb; 25 lbs. **\$1.50**; 100 lbs. **\$4.00**.

CHAMPION WHEAT AND CORN GROWER

Three to four hundred pounds could be used per acre on Corn when drilled; 200 pounds when checked. We would recommend four to five hundred pounds for Wheat.

Champion Wheat and Corn Grower. Price per bag (125 lbs.) **\$2.85**; per ton **\$32.00**. Guaranteed analysis:

Ammonia.....	2%
Phosphoric acid available.....	12%
Potash.....	2%

GRAIN GROWER. Price per Bag (125 lbs.) **\$2.90** per ton **\$34.00**.

Ammonia.....	2%
Phosphoric acid.....	12%
Potash.....	4%



FEEDEM. A well balanced concentrated fertilizer for potted plants, ferns, sweet peas, roses, begonias, cut flowers and all sorts of growing things. Provides just the nourishment needed for vigorous growth, heavy foliage, brilliant coloring.

A Tonic for Sick Plants. Feedem contains 10 times more plant food than most others. A little goes farther and lasts longer. One teaspoonful dissolved in 1/2-gallon of water is sufficient for one treatment. **4-oz. can, 30c; 8-oz. can 50c.**

POULTRY SUPPLIES

MEAT SCRAPS

Especially recommended for ducks and geese, as well as chickens and other fowls.

Price: 100-lb. sack, each, **\$2.10**.

POULTRY REMEDIES

Pratt's Sorehead Remedy.....	25c
Pratt's Roup Remedy.....	25c
Pratt's White Diarrhea Tablets.....	25c
LeGear's Sorehead Remedy.....	30c
LeGear's Chick Diarrhea.....	50c
LeGear's Poultry Worm Powder.....	\$1.00
Dr. Hess' Pan-A-Min. 12 lbs.....	\$1.50
25 pounds.....	\$3.00
LeGear's Bowel Regulator.....	25c
LeGear's Roup Remedy.....	30c
Dr. Hess' Roup Tablets.....	\$1.00
Conkey's Roup Remedy.....	30c
Conkey's Gape Remedy.....	25c
Conkey's White Diarrhea.....	30c
Conkey's Limberneck.....	50c

CONDITION POWDERS

Add postage; see back cover

For many years we have handled Condition and Poultry Powders, and we have found the following to be good and reliable brands:

Dr. LeGear's, for horses, cattle and hogs; **50c** and **\$1.00** packages.

Pratt's, for horses, cattle and hogs; **25c** and **50c** packages.

Pratt's, for horses, cattle and hogs; in 12-lb. bags, **90c**.

Dr. LeGear's Worm Remedy, **75c** per pkg.

Dr. LeGear's Horse Colic Cure, **75c** per bottle.

Pratt's Healing Powder, **25c** per can.

Pratt's Animal Regulator, **25c** per pkg.

Dr. LeGear's Disinfectant, **60c** per can.

Dr. Hess' Stock Foods, 10 lbs. **\$1.75**.

PETERSEN'S HEN FEED

You be the judge—a magnifying glass tells the tale. Take a handful of OUR Poultry Feed from the bag and examine it under a powerful magnifying glass. Note how the quality shows up. Not one particle of grit, fire-burnt wheat, or waste matter of any kind. That's why Our Poultry Feeds are the most economical for you to use. You do not pay grain prices for waste and grit. Price, **\$1.75** per 100-lb. bag.

CHAMBERLAIN'S PERFECT CHICK FEED

This feed is recommended by many authorities on poultry as the best feed to start little chicks, because it contains no corn, and therefore causes no bowel trouble, which is so prevalent among little chicks. "You hatch the chicks—Chamberlain's Perfect Chick Feed will raise them. Costs more per pound—less per chick." Price: 1 lb. **10c**; 8 1/2 lbs. **50c**; 100 lbs. **\$4.00**.

LEG BANDS

Best quality. Made of celluloid in six sizes and ten colors—White, Black, Blue, Red, Pink, Garnet, Green, Yellow.

Sizes—Large, medium and small hen.

Be sure to state size.

25 Bands.....	30c
50 Bands.....	50c
100 Bands.....	85c
Sizes—Pigeon and Baby Chick.	
25 Bands.....	20c
50 Bands.....	35c
100 Bands.....	60c

Metal—3 1/2 in., satin finish, numbered consecutively from 1 to 50, for marking poultry. 50 in pkg. Per 100 **75c**.

BABY CHICK STARTING FOOD

A perfect food for young chicks, geese, ducks and turkeys. A food that lays the foundation required to make sturdy, vigorous, healthy chicks and bring the greatest number to maturity. It contains muscle and bone builders and mild digestive tonics which prevent intestinal disorders.

Price per 25-lb. bag **\$1.00**; 50-lb. bag **\$1.80**.

LICE KILLER

For Poultry and Plants

We give only the best Lice Killers, which we know have been tried out and have proven successful. Directions with each package.

Pratt's, postpaid: 1-lb. package **33c**; not prepaid **25c**.

LeGear's, postpaid: 1-lb. package **33c**; not prepaid **25c**.

CRYSKO GRIT

Price per 100 lbs. **90c**; per 10 lbs. **30c**.

OYSTER SHELL

Price per 100 lbs. **\$1.10**; per 10 lbs. **30c**.

POULTRY BONE MEAL

Price per 100 lbs. **\$2.10**; per 10 lbs. **50c**.

ALFALFA MEAL

Price per 100 lbs. **\$1.85**; per 5 lbs. **25c**.

CHARCOAL

Price per 100 lbs. **\$3.25**; per 50 lbs. **\$2.50**; per 5 lbs. **40c**.

LINSEED MEAL

Price per 100 lbs. **\$2.25**.

Pure ground flax seed in 100-lb. bags **\$7.00**.

MISCELLANEOUS FEEDS

Kaffir Corn, **\$1.90** per 100 lbs.

Millet **\$3.00** per 100 lbs.

Hemp Seed, **\$5.00** per 100 lbs.

Rape Seed (Imported), **\$6.50** per 100 lbs.

Canary Seed, **\$7.75** per 100 lbs.

Prices for larger quantities on application.

CALF MEAL

At one-half the cost of milk. It raises firmer, solidier calves that mature earlier.

Save the Calves—Calf Meal will do it and will not curtail the milk supply.

A perfect whole milk substitute having the same food properties. Calves like it and can thus be raised with little or no milk. 50 lbs. of this meal will feed a calf for the first six months. 100 lbs. of meal, when mixed with water, make 100 gallons of whole milk substitute. It pays to raise calves at these figures, doesn't it? You do not have to rush your calves to slaughter to save milk.

Special prices on large quantities.

Prices, 50-lb. bags **\$1.90**; 100-lb. bags **\$3.45**.

DR. LeGEAR'S HOG PRESCRIPTION

The Worm Expeller. An excellent remedy for many diseases of hogs. A first class tonic blood purifier, fat producer and worm expeller. Price, 3 3/4-lb. carton **75c**, postpaid. Not prepaid, 3 3/4-lb. carton **60c**; 25-lb. pail **\$3.00**.

DIGESTER TANKAGE

Our Tankage is guaranteed to be as represented and according to analysis. We have many letters and the manufacturers have many more, from State Experiment Stations, leading Swine Breeders and Feeders in all sections of the country, indorsing in the strongest terms Tankage as a great hog feed. Will keep indefinitely under average conditions of dry storage. Put up regularly in 100-lb. sacks. **\$2.10** per 100 lbs. F. O. B.

INSECTICIDES and FUNGICIDES

ACME GARDEN GUARD

No sprayers, no water, no mixing. Dust on plants from sifter-top carton or through burlap sack. Acme Garden Guard is the strongest garden insecticide of its type on the market—yet safe to use. Ideal for the housewife to use.

For use on Cabbage, Cauliflower, Tomato Plants, Melon Vines, Currant and Gooseberry Bushes and other vegetables, flowers and shrubs of many kinds.

The Bordeaux Mixture in Garden Guard acts, in a measure, as a fungicide.

- 1-pound sifter carton..... \$0.25
- 5-pound paper bag..... .75

Not mailable.

ACME 2-WAY SPRAY

An approved balanced Insecticide and Fungicide containing 14% Arsenate of Lead and 83% Bordeaux Mixture—2 results with one spray.

Controls insects, combats blight, stimulates foliage.

Easy to apply—wet, or dry. For dusting, apply lightly, as it comes in the package.

In spraying apples, grapes, muskmelons, potatoes, squash and tomatoes, use 9½ level tablespoonfuls to 1 gallon of water.

On pears, sour cherries, eggplant and peppers, use 7 level tablespoonfuls to 1 gallon of water.

- ½-pound carton..... \$0.25
- 1-pound carton..... .45
- 4-pound paper bag..... 1.35

Not mailable.

ACME LONDON PURPLE

Costs less; results best. London Purple has for years been the South's favorite control for the cotton worm, and, possessing better sticking power than most other insecticides, makes it a favored spray for potatoes and tobacco.

An ideal insecticide to dust.

On potatoes, use 1½ to 2¼ level tablespoonfuls to 1 gallon of water.

- ¼-pound carton..... \$0.15
- 1-pound carton..... .45
- 4-pound bag..... 1.40

Not mailable.

SLUG SHOT

One of the best vegetable insecticides in use. Specially recommended for destroying the Cabbage worm, Potato bug, Tobacco worm and other insects that prey on vegetation. Gardeners need have no fear about applying this, as it is not dangerous to handle like Paris Green, etc. Non-poisonous to human life. Price, 1 lb. canister, 20c, postpaid 30c; 5-lb. pkg. 60c, postpaid 75c. Pamphlets containing full information mailed free.

TOBACCO DUST

One of the cheapest and most effective remedies for destroying worms on Cabbage, striped bugs on Melons, Cucumbers and Squashes, and other insects. It is best to dust on young plants when the dew is on, as it will stick better. Postpaid, 10 lbs. 80c; not postpaid, 25 lbs. \$1.50; 50 lbs. \$2.50; 100 lbs. \$4.50.



ACME ALL ROUND SPRAY

NEW 3-WAY SPRAY

Save your roses, plants, vegetables, shrubs and trees from the ravages of chewing insects, sucking insects, blight and fungi.

All Round Spray requires no technical knowledge or skill in using. The spraying guide attached to every package gives assurance of sure and safe garden protection.

- ¼ lb. tins..... each, 45c
- 1 lb. tins..... each, 95c

Black Leaf "40" on page 46.

ACME BORDEAUX MIXTURE

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungous diseases, will stimulate plant growth and greatly increase the harvest. On apples, grapes, currants, gooseberries, strawberries, pecans, potatoes and tomatoes, use 8 level tablespoonfuls to 1 gallon of water.

For spraying sour cherries, pears, plums, celery, beans, oranges, grapefruit and lemons, use 6 level tablespoonfuls to 1 gallon of water.

- 1-pound carton..... \$0.40
- 4-pound paper bags..... 1.25

Not mailable.

ACME ARSENATE OF LEAD

It kills the bugs, sticks to the leaves and does not burn or injure the foliage.

While these qualities make it the favorite spray for fruit trees, it also gives splendid results on vegetables and tobacco.

Arsenate of Lead is recommended to control leaf-eating insects on apples, cherries, currants, gooseberries, grapes, peaches, pears, plums, strawberries, pecans, asparagus, beans, cabbage, cauliflower, potatoes, tomatoes and tobacco.

When dusting fruit, add 5 parts hydrated lime. Vegetables, 8 parts lime.

- ½-pound carton..... \$0.25
- 1-pound carton..... .45
- 4-pound bag..... 1.40

Not mailable.

ACME LIME SULFUR

Acme Lime Sulfur is a standard 33° Baume Lime and sulphur solution, converted into dry powdered form, having all the effectiveness without the bother in handling.

For dormant spraying in the fall or early spring against Scale, Peach Blight, Leaf Curl and Twig Borer, use 9-11 tablespoonfuls to 1 gallon of water. Mailable.

For summer spraying against Scab, Soot and Blotch, use from 2½ to 3 level tablespoonfuls to 1 gallon of water.

On oranges and lemons—2½ to 3 level tablespoonfuls to 1 gallon of water will control Red Spider and Mites.

- 1-pound can..... \$0.30
- 5-pound can..... 1.25
- 10-pound can..... 2.25

Ask for prices on liquid lime sulfur.

If by mail, add postage.

LIQUID PARIS GREEN

A poisonous insecticide in powder form, for insects which chew. When applied as a powder, use one part Paris Green to 100 parts plaster or flour. As a liquid, one pound of Paris Green in 150 to 300 gallons water; if used on fruit trees add one pound quick-lime. Changes with market. ¼ lb. 20c; ½ lb. 35c; per lb. 55c; 5 lbs. \$2.50; 14 lbs. \$6.00. Not mailable.



Effective against Cucumber and Melon Beetles, Cabbage Worms, Rose Slugs, Aphis, Leaf Hoppers, and most other plant insects including cutworms.

- 1 oz. bottles..... \$0.35
- 6 oz. bottles..... 1.00
- 16 oz. bottles..... 2.00
- 32 oz. bottles..... 3.50
- 1 gal. bottles..... 13.00

NIKOTEEN

Nikoteen liquid is a strong solution of nicotine, and is used for fumigation or spraying.

One part of Nikoteen to 500 parts of water is a sufficiently strong spraying solution for most all insects, such as plant louse, aphid, grapevine hopper, rose leaf hopper, cucumber beetle and melon louse. Prices: 1 oz. bottle 25c; 2-oz. bottle 40c; ½-lb. bottle \$1.25; 1-lb. bottle \$2.00. Not mailable.

SCALECIDE

"Makes a Tree Outgrow Its Troubles."

Guaranteed to kill San Jose Scale without injury to the tree or fruit bud. May be used on all trees or shrubs that drop their foliage in the winter.

Spray any time in the dormant season for blight, canker, collar rot, leaf roller and scale. For pear psylla and peach leaf curl spray in the fall. Spray for aphids in the spring.

Exerts extraordinary invigorating effect on tree growth. Use one gallon to 15 gallons of water. Price: 1 qt. 75c; gal. \$1.75; 5 gal. \$6.25. If by mail, add postage. Price for larger quantities on application.

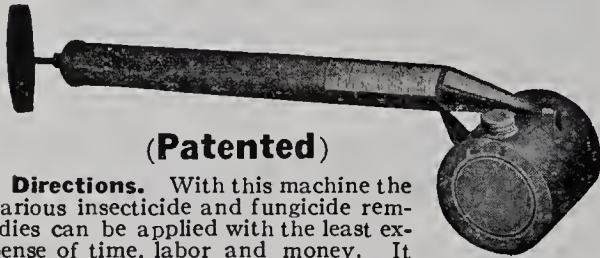
SHEP'S PLANT SPRAY

SHEP'S PLANT SPRAY is NON-POISONOUS and harmless to plants, birds, animals or humans. It will not burn the leaves or flowers. In addition it contains elements which are very beneficial both to the soil and to the plants themselves, helping you to produce greener, more lustrous foliage. Teaspoonful to every quart of water. 2 oz. bottle 45c, postpaid.



SPRAYERS and PUMPS

LITTLE WONDER SPRAYER



(Patented)

Directions. With this machine the various insecticide and fungicide remedies can be applied with the least expense of time, labor and money. It operates up or down equally as well, spraying until empty. Made of tin. Price 50c each, postpaid 60c.

QUART GLASS SPRAYER



Pump Chamber—18 in. by 1 1/2 in.
Reservoir—Quart Mason Fruit Jar.

Has two spray tubes. Reservoir may be easily replaced if broken. Body of sprayer is heavy tin nicely painted. Very substantial, neat and attractive. Price 60c each, postpaid 80c.

NO. 25 "YANKY" BARREL SPRAY PUMP



Made with brass nozzles, brass cylinder, brass ball valves and valve seats. Quickly attached to any barrel.

Double-acting barrel spray pump. Requires no priming.

The pump barrel is made of heavy brass as are all valves and valve seats—ground together, making all parts airtight. Their parts will not rust or corrode, nor is any part of the pump affected by strong mixtures.

The plunger packing is a specially treated canvas, unaffected by the strong mixtures which would destroy a leather packing.

The pump is easily and quickly attached to

any barrel by bolting through the casting to the upper end of staves. Works with compressed air, throwing a stream with great force or a continuous spray as desired.

The duplex agitator keeps the liquid stirred up and prevents the ingredients from settling. This style agitator is simple, effective and recognized as one of the most efficient. The pump is regularly fitted with 1 1/2-inch 5-ply rubber hose of A-1 quality, Vermorel Brass Nozzle, from which any size spray or stream can be thrown; impossible to clog.

Price, \$13.25 each; extension 8-foot bamboo poles, \$4.50 each.

SMITH'S NO. 22 BANNER

Compressed Air Sprayer

GUARANTEED.

This Sprayer is adapted for all kinds of spraying purposes and cannot be excelled for spraying trees, shrubbery, potato vines, grape vines, disinfectants, whitewash, etc., in fact for any purpose where spraying is done.

Directions with sprayer. Complete galvanized steel reservoir with autopop nozzle, \$6.50.

If ordered by Parcel Post, add 40 cents.

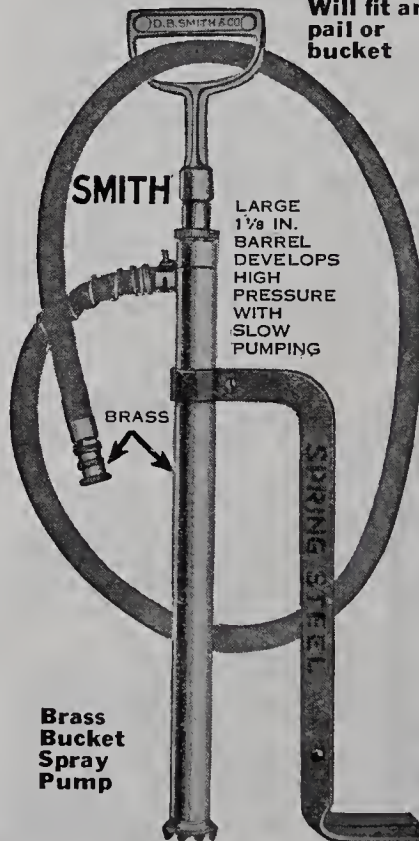
Extension pipe, two feet in length.

Several lengths of pipes may be screwed together and the nozzle elevated for spraying trees, vines, etc., 50 cents each.



Brass

BRASS BUCKET PUMP



Will fit any pail or bucket

SMITH

LARGE 1 1/2 IN. BARREL DEVELOPS HIGH PRESSURE WITH SLOW PUMPING

BRASS

Brass Bucket Spray Pump

Has brass valves and valve seat, brass plunger which are not affected by the poisonous arsenics used in spraying.

Furnished with three feet of heavy, best quality rubber hose.

Two interchangeable brass nozzles are also furnished, giving a fine mist-like spray, or coarse spray or stream.

Used largely for spraying trees, shrubbery, vegetables, as well as for whitewashing, spraying, disinfectants, washing wagons, windows, etc. Price, postpaid, \$4.00. Store, \$3.75.

No. 26. Double brass barrels, has brass strainer in bottom which strains all solution before it enters pump. Attractively finished. Price, postpaid, \$4.25; Store, \$4.00.



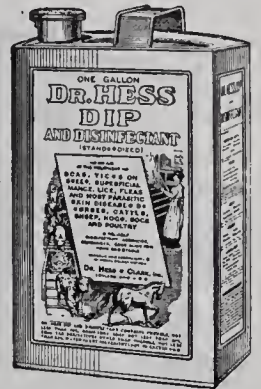
DR. HESS' POULTRY PAN-A-MIN

PAN-A-MIN has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-ce-a.

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions.

It does not take the place of feed and no feed can take the place of PAN-A-MIN. The cost is less than a penny per hen per month.

- 150-hen size, 25 pounds..... \$3.00; postpaid \$3.35
- 40-hen size, 7 pounds..... 1.00; postpaid 1.15
- 20-hen size, 3 pounds..... .50; postpaid .60



FOR WORMS IN POULTRY

DR. HESS POULTRY VER-MI-TROL is a flock treatment. It is simply given with the feed in two 10-day courses, three weeks apart, with DR. HESS POULTRY PAN-A-MIN fed regularly.

It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds.

To avoid worm infestation, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.

Quantities for 75 Days

- 125-hen size, 10 lbs..... \$2.75; postpaid \$2.95
- 50-hen size, 4 lbs..... 1.25; postpaid 1.35

DR. HESS' DIP AND DISINFECTANT

A dip that makes a perfect milk-white emulsion—never any streaks or settlings. Remains in emulsion indefinitely. It is a standardized product.

Because of its strength, its uniformity, its perfect emulsifying qualities, with its germ and insect killing powers, it is a most inexpensive dip to use. Valuable about barns and stables—kills hog lice and other parasites and keeps down foul odors.

- 1/4-gal. can..... \$.60; postpaid \$.70
- 1-gal. can..... 1.75; postpaid 2.00

DR. LeGEAR'S POULTRY AND STOCK POWDERS

PUT MORE MONEY INTO YOUR MILK PAIL—

Satisfaction Guaranteed

Get from us enough of Dr. LeGear's Powders for all your cows or poultry for sixty days. Use it as directed. At the end of the sixty-day trial, if not fully satisfied with results, return empty containers to us and we will refund your money.

Only three pounds of Dr. LeGear's Stock Powders is necessary for one hundred pounds of feed. We can supply you in following sizes which is the usual supply for 60 days:

- For 1 cow, 1 1/2-lb. pkg., costs..... \$.30; postpaid \$.40
- For 2 cows, 8-lb. pkg., costs..... 1.20; postpaid 1.35
- For 5 cows, 25-lb. pail, costs..... 3.50; postpaid 3.85
- For 25 cows, 100-lb. drum, costs..... 12.00, not prepaid.



MAKE YOUR HENS PAY FOR THEIR "BOARD AND KEEP"

Start today to give your Chickens

DR. LeGEAR'S POULTRY PRESCRIPTION

Get a supply from us today. The following is the usual supply for 60 days:

- 10 birds, 1 1/2-lb. pkg., costs..... \$.30; postpaid \$.40
- 25 birds, 3 1/2-lb. pkg., costs..... .60; postpaid .75
- 50 birds, 8-lb. pkg., costs..... 1.20; postpaid 1.35
- 150 birds, 25-lb. pail, costs..... 3.50; postpaid 3.85
- 500 birds, 100-lb. drum, costs..... 12.00, not prepaid.

For 50 pounds of mash feed use 1 1/2 pounds.

SATISFACTION GUARANTEED

Get from us enough of Dr. LeGear's Powders for all your cows or poultry for sixty days. Use it as directed. At the end of the sixty-day trial, if not fully satisfied with results, return empty containers to us and we will refund your money.



Be one of the "Lucky" Poultry raisers

"GATOR-HIDE"

Mulch Paper

Gator-Hide Mulch Paper keeps down weed growth, retards evaporation of moisture, aids earlier maturity of crops and increases yields from 25% to 100%. Used by laying the strips between rows and weighted down at edges and ends. In some districts seeds and plants are planted through holes in the paper.

Gator-Hide Mulch Paper is made in 2 weights:

Type A. A light-weight paper. For growing annual crops. Designed primarily for field crops. Comes in rolls of 300 linear yards, 18 and 36 inches wide.

Type B. A heavy grade. For growing all biennial and perennial crops such as grapes, berries, perennial flowers and for home garden plantings, including annuals. Comes in rolls of 150 linear yards, 18 and 36 inches wide.

18-inch. **Price per roll (A or B) \$3.50.**
 36-inch. **Price per roll (A or B) \$7.00.**

Write for free booklet, "The Miracle of Mulch Paper."



IMPORTED GRANULATED PEAT MOSS

TORF MULL



Granulated Peat Moss is a specific light-weight and light-colored pure vegetable spagnum peat moss, and comes from the heart of the famous Peat Moss district of northern Germany.

For roses, vegetables, flowers, shrubs, ornamental trees, etc., a covering of fine Peat Moss 1 to 3 inches deep is recommended around the stems or roots and thoroughly watering same during the hottest weather of the growing season. This will keep the roots cool, kill the weed growth, make the garden more attractive and reduce enormously the quantity of water required.

LAWN

Established lawns should be covered one-half inch deep with Granulated Peat Moss in the late fall. It will almost disappear by spring. If the fall covering has been omitted cover lightly in the spring and occasionally during the growing season. It soon works in about the grass roots.

Get Granulated Peat Moss today. Enjoy the pleasure of a beautiful garden and beautiful lawns.

Large Bale, about 140 lbs. (covers 260 square feet one inch deep),

Price per bale..... \$3.25
5-bale lots, per bale..... 3.00

POULTRY PEAT LITTER

Many progressive poultrymen have found Purity Brand poultry litter superior not only to other litter materials, but to other grades of peat as well. It is a labor-saver, because it does not have to be changed often. It appears to have certain germicidal properties. Laboratory tests have shown it to be remarkably free from bacterial and parasitic life.

Poultry Litter keeps the birds clean, prevents the droppings from sticking to them and thus reduces the number of dirty eggs. It absorbs offensive odors, prevents dampness and the spread of disease and keeps the house dry and clean.

Protect your poultry; keep the place cleaner and save time and trouble by buying Purity Brand Peat Litter today.

Large Bale, 19-20 Bushels; price per bale..... \$3.25
Five-bale lots, each..... 3.00

VIGORO

VIGORO is odorless, clean, economical and easy to apply. It is especially prepared to supply grass, flowers, shrubs and vegetables with all of the plant food elements needed for rapid growth. PETERSEN'S SEEDS and VIGORO make an unsurpassable combination, an assurance of good results—start your lawn and garden right. Simple directions for using Vigoro on every bag or package. **5 lb. 50c; 25 lb. \$1.75; 50 lb. \$3.00; 100 lbs. \$5.00.**

VIGORO

Complete Plant Food

A Product of Swift & Company

"Use Vigoro on everything you grow"



Reliable Seed



Disinfectant

INCREASES FARM AND GARDEN PROFITS

Ceresan

For Seed Grains

Ceresan is effective in controlling stinking smut and seed-borne flag smut of wheat; smuts of oats, barley, sorghums, millet, and rye. Ceresan is harmless to seed and does not injure grain drills. Use it to increase your grain yields and profits. Only two ounces needed per bushel of seed wheat, rye, sorghums, or millet, and three ounces for oats and barley.

Semesan

For Flower and Vegetable Seeds

Diseases carried on the seed often reduce germination and cause a poor stand, lowered quality and unsatisfactory yields. Destroy these disease organisms with Semesan. It is easily and quickly applied as a dust or liquid. Effective in controlling damping-off of seedlings and cuttings.

Semesan, Jr.

For Seed Field and Sweet Corn

A simple, quick, inexpensive dust treatment with Semesan, Jr., destroys harmful disease organisms on the seed, protects seed from rotting in cold, wet soil, controls seedling blight, and generally increases crop yields. Harmless to seed corn. Does not slow up rate of drop. Only two ounces necessary per bushel of seed field or sweet corn. Costs only 2½¢ an acre.

DuBay seed disinfectants are poisonous; therefore, must be called for or sent by express.

Semesan Bel

For Seed Potatoes

Prevent seed-borne disease losses by treating seed before planting with Semesan Bel. No time-consuming soaking necessary. Protects the seed piece against rotting by soil-borne organisms. Improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed.



CERESAN

1-lb. tin..... \$.75
5-lb. tin..... 3.00

SEMESAN BEL

4-oz. tin..... \$.50
1-lb. tin..... 1.75

SEMESAN

2-oz. tin..... \$.50
1-lb. tin..... 2.75

SEMESAN, JR.

4-oz. tin..... \$.50
1-lb. tin..... 1.75

Treat All Seeds Before Planting

VEX

Now You Can Fertilize as You Sprinkle



Vex Automatic Fertilizer

The Vex Automatic Fertilizer is simply an enameled brass cylinder, 12" long and 3" in diameter, which is attached to the garden hose. Into this cylinder slip a cartridge of Lawn Vex Food. This cartridge is 100% plant food. 46% is NITRAGIN, the most productive food science has found for cultivating a thick, sturdy growth of grass. One cartridge contains as much real plant food as 100-lb. sack of ordinary fertilizer.

If lawn is starved and the growth of grass is weak, one cartridge should be applied to an area of 30x40 or 1,200 sq. ft. This is a strong feeding and should show quick results. After this first feeding one cartridge of Lawn Vex should be applied to twice this area, or 2,400 sq. ft. every four to six weeks, insuring a high state of cultivation.

It overcomes the objectionable odor and muss that the use of manure brings.

It eliminates the back-breaking work of distributing a powdered fertilizer in solution.

It ends the danger of burning the grass or starving it, due to uneven distribution and is weedless.

Vex Automatic Fertilizer with one cartridge, complete..... \$4.85
Additional cartridges, each..... 1.45

THE PUTNAM BROODER

Requires filling **BUT ONCE A WEEK**—no other attention. Patented principle—**EFFICIENCY** guaranteed. Thousands in use. Every **OTHER BROODER** must be filled and trimmed **SEVEN TIMES** a week.

Putnam **HOME MADE BROODER** is adapted to any size plant from 25 to 60 chicks in one brooder to any greater number desired; simply use more brooders. Is particularly adapted to needs of small breeder who aims to produce one lot of chicks or a few dozen.

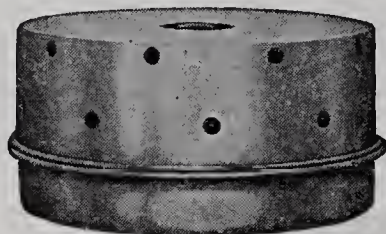
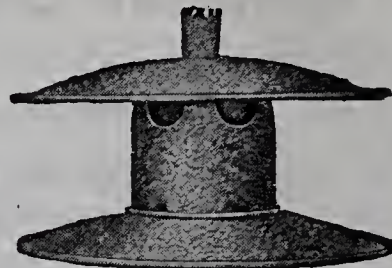
No other brooder on the market is **EASIER** or more **SIMPLE** to operate; none uses **SO LITTLE OIL** per chick; brooder consumes less than a gallon of oil **A MONTH**. Send for and read the testimonials.

Putnam **BROODER HEATER** is so constructed that it acts **LIKE AN OPEN FIRE PLACE** carrying the foul air out and drawing the fresh air in, thus providing **PERFECT VENTILATION AUTOMATICALLY**.

Brooder Heater is made of brass and galvanized iron—**IS PRACTICALLY INDESTRUCTIBLE**.

Capacity of Putnam **HOME MADE BROODER IS ELASTIC**. When chicks require more exercising space, heater and hover can be placed in larger box or other structure. **THE BROODER GROWS WITH THE BROOD**.

The Putnam Home Made Brooder is not for sale. You must make it yourself. The Brooder-Heater only is sold. The price of the Heater is **\$4.75, postpaid**. Every Brooder-Heater is accompanied by **EASILY FOLLOWED DIRECTIONS** for building the Home Made Brooder.



THE LITTLE PUTNAM STOVE

Used under the drinking vessels of the poultry house to keep the water from freezing in the coldest winter weather. Also used as the heat element for a Putnam home made oat sprouter.

DESCRIPTION OF THE LITTLE PUTNAM STOVE

A Little Putnam Stove is nine inches in diameter and four inches high; made of galvanized iron and equipped with a burner which embodies an **entirely new principle** in oil combustion. Combustion is complete and perfect, doubling the heat value of the oil. **The oil tank holds three pints of oil and burns three to four weeks without refilling or any other attention.** The wick never needs trimming. The stove with any kind of fair usage will last a life time. Write for descriptive circular. **Price, \$2.00 each, postpaid. Wicks, 20c per dozen.**

Inoculate

ALL LEGUMES

Alfalfa, All Clovers, Soy Beans, Cow Peas, Vetch, Peas, Beans, Peanuts with

All Legume Germs Are Perishable

To Protect You NITRAGIN Cans Stamped With Expiration Date



Legume Germs Die Rapidly When Dried

Authorities Recommend Inoculating With Water

THE ORIGINAL LEGUME INOCULATOR

Guaranteed Fresh Each Year—Leads in High Germ Count

For profitable results, Agricultural Colleges advise inoculation for all legume seed, because it pays well in producing larger quality yields. NITRAGIN inoculated legumes draw their nitrogen from the air—not the soil—with billions of fresh, efficient nitrogen-gathering germs. It's fresh each year—it's DATED, and leads in High Legume Germ Count. Quality inoculation is the cheapest legume crop insurance known.

NITRAGIN PRICES

Alfalfa, All Clovers		Peas, Vetch, Beans, Austrian Winter Peas		Soy Beans and Cow Peas	
Size	Price	Size	Price	Size	Price
1/4 bu.....	\$.40	1 bu.....	\$.40	1 bu.....	\$.40
1/2 bu.....	.60	1/2 bu.....	.60	2 bu.....	.70
1 bu.....	1.00	1 bu.....	.60	5 bu.....	1.50
5 bu.....	4.75	*1 1/2 bu....	.90	10 bu.....	2.50
		3 1/2 bu....	1.80		
		5 bu.....	2.50		
		*Also called "100 lb. size."			

When ordering always specify kind of seed

When ordering always specify kind of seed

Garden Nitragin—Garden Size—Peas, Beans, Sweet Peas

Inoculates from 1 ounce to 8 lbs. seed. Price \$.25
IMPORTANT: When ordering NITRAGIN, always be sure to state kind of legume seed you wish to inoculate.
Nitragin Has Served the American Farmer Since 1898

Mixing Nitragin with Seed

Legume Germs die rapidly when dried. NITRAGIN, containing between 30%—40% moisture, will readily stick to the seed without adding water, and give inoculation. However, for best results, the preferred practice, recommended by The Nitragin Company and Agricultural Authorities is to use water when mixing legume culture with seed.



No. 25 Planet Jr. Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow

Holds 2½ quarts. Weight, packed, 61 lbs. Net, 47 lbs. It combines in a most practical way the Planet Jr. No. 4 Drill and No. 12 Double and Single Wheel Hoe.

Equipment:
 One pair of 6-inch hoes. }
 Four cultivator teeth. } All oil
 One pair plows. } tempered.
 Two leaf guards.
 One marker.

This Seeder and Wheel Hoe has long been known as the "Complete Gardener." We strongly recommend it to all who have a good amount of planting and cultivating to do. As a seed drill the No. 25 opens the furrow, drops the seed, covers with moist soil, neatly rolls the surface and marks out the next row, spaced from six to twenty inches as desired, all in one operation.

No. 25 can be changed from single-wheel hoe to double wheel. The advantage of a double-wheel hoe is that it straddles the row and runs steadier and more evenly than a single-wheel hoe, allowing closer adjustment and more accurate work.

Price..... \$21.50

Planet Jr. Machines are Unexcelled.

They Do the Best Work and are Operated With Ease.

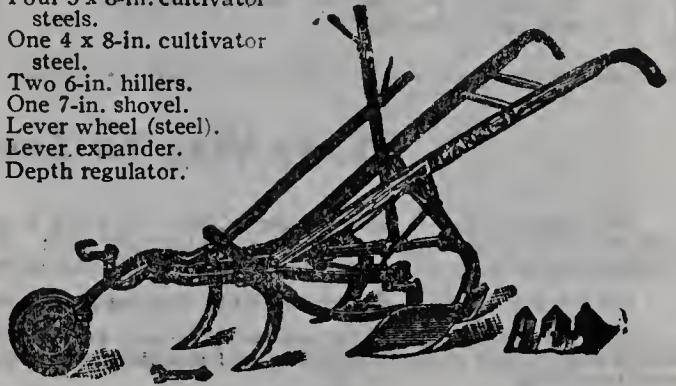
Any Boy Can Handle Them.



**Planet Jr. No. 8—Horse Hoe
 With Dirt-Proof
 Clog-Proof Steel Wheel**

No. 8 PLANET JR. HORSE HOE AND CULTIVATOR
 Weight, 83 pounds. Arranged as used for plowing toward the row and for hilling.

Equipment:
 Four 3 x 8-in. cultivator steels.
 One 4 x 8-in. cultivator steel.
 Two 6-in. hillers.
 One 7-in. shovel.
 Lever wheel (steel).
 Lever expander.
 Depth regulator.



Our No. 8 horse hoe and cultivator has been a great favorite for years; it is designed to give years and years of service. And yet it is not clumsy, but the most easily guided, easily handled and steadiest running horse hoe you ever put your hand to. This machine should not be compared with some of the cheaply made clumsy and ill-operating machines that are sometimes sold. The frame of stiff steel, extra long and two inches higher than usual; closes to 10 inches and opens to 25 inches.

Price..... \$16.25

No. 17 SINGLE WHEEL HOE

Very popular because equipment includes just the attachment needed in the average garden. A pair of 6-inch hoes for weeding and shallow cultivation, three cultivator teeth for deeper and general cultivation, and a plow with landside for hilling, furrowing, ridging and plowing. Light and easy to handle. All steel—unbreakable.

Price..... \$7.75



No. 4 Combined Hill and Drill Seeder and Single Wheel Hoe

The No. 4 is a combination of the most useful tool for a home garden. Plants almost all vegetable seed in continuous rows or in hills 4, 6, 8, 12 or 24 inches apart. A plow adjustable for depth opens a straight, narrow furrow, the seeds are dropped in it, are covered and the soil firmed and the next row marked out all in the same operation. Converted into a Single-Wheel Hoe by changing one bolt. Cultivating equipment includes the most useful attachments—hoes for weeding and shallow cultivation—cultivator teeth for deeper and general cultivation, and the plow for furrowing, ridging.

Price, complete..... \$18.00
 Less cultivating attachments..... \$14.25

- No. 5. Planet Jr. Hill and Drill Seeder. Capacity, 5 quarts..... \$20.00
- No. 300. Planet Jr. Drill Seeder. Capacity, 4 quarts..... \$20.00
- No. 11. Planet Jr. Double and Single Wheel Hoe, combined, with attachments..... \$13.75
- No. 12. Planet Jr. Hoe. Same as No. 11 except 4½-inch hoes and the rakes not in equipment..... \$10.75

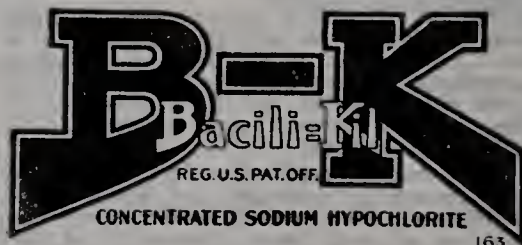


B-K KILLS GERMS

Simple—Safe—Inexpensive

FINE FOR DAIRYMEN

B-K is the ideal solution for sterilizing and deodorizing, because it is simple to use, economical and positive in action. You don't have to bother to heat water. Just make your dilution with cold water, according to our directions. This will give you for 1/2c to 3c a gallon, a rinse that will thoroughly sterilize your utensils and assure you of clean milk.



Easy Way To Save Your Poultry

B-K (Bacili-Kil) is a powerful germ-killer. It is not a poison but is ten times more powerful as a germ killer than carbolic acid. Destroys germs almost instantly on contact. B-K is a concentrated sodium hypochlorite product—clean, colorless, and a deodorant. Used as a preventive of roup, coids, bronchitis, cholera and white diarrhea in poultry.

Do not practice false economy and use homemade or unstable chemical preparations.

B-K is the most widely accepted non-poisonous germicidal agent nationally distributed through commercial channels. B-K is not a poison and may be freely used according to instruction charts without danger of possible injury to baby chicks or mature birds.

Feeding B-K in the drinking water at all times is very important to prevent spread of disease.

Prevention of disease is much easier and cheaper than the cure. Keep your poultry houses clean and sterilize frequently and the chances of disease infestation will be cut to a minimum.

BLACK LEAF "40"

BLACK LEAF "40"—NICOTINE SULPHATE. For spraying fruits, flowers, shrubs and for Delousing Poultry. One teaspoonful of Black Leaf 40 will make one gallon of spray. Poison. 1 oz. 35c; 5 ozs. \$1.00; 16 ozs. \$2.50; cannot be mailed.

Price on B-K

10-oz. bottle.....	\$.60
1 quart.....	1.25
1 gallon.....	3.00
5 gallons.....	12.50

B-K CANNOT BE MAILED

H. W. Bird Tonic

"H. W." Bird Tonic is a conditioner when used regularly, as directed, in the drinking water, or as a health restorative when used in cases of disease. This aids each and every organ to function properly, thus permitting your bird to receive the full benefit of the food it eats, and the highest records of continued song. Excellent plumage and health can be expected and maintained.

*"A Song Thru the Day
Makes the Household Gay"*

"It's Decidedly Better"—Get Your Bottle Today!
Price 25c.

Protect Your Poultry By Using H. W.

Users—old and new—have had it conclusively proven to them that "H. W." is not a stimulant, but is a conditioner and when properly fed will bring unto and keep your flock in bodily health—strengthening.

One-half cent per bird per week will easily cover the cost of "H. W." fed in the drinking water, and the hen will quickly pay for this additional attention and will during the winter season bring in large dividends through producing eggs.

Three ounces.....	\$.50
Eight ounces.....	1.00
One quart (32 ounces).....	2.75

WE DELIVER FREE IN THE U. S. ALL VEGETABLE AND FLOWER SEEDS BY THE PACKET, OUNCE OR QUARTER POUND

SWEET PEAS

Sow in permanent location, in single row, two seeds to the inch, half-ounce of seeds to every yard or row; cover one inch deep.

Sweet Peas can be grown as easily as the common garden Peas, simply requiring room and early starting—planted even before the frost is out of the ground, sometimes the preceding autumn, as with deep roots in a deep, rich soil the season of blooming is lengthened. They do best when trained to trestles made of string or wire. They should be thinned out about one inch apart in rows, and if in parallel rows the rows should be four (4) feet apart.

Sweet Peas always develop the largest and best flowers and continue longest in bloom under conditions of a rainy season or under irrigation. On the other hand, hot, dry weather diminishes the size of flowers, causes them to fade and induces the vines to cease blooming, to soon dry up if not revived by rain, but after a good rain will make a display as attractive as at first.

White-seeded Sweet Peas are more delicate than the dark-seeded varieties, and under unfavorable conditions of soil and rainfall or drought do not germinate as freely as dark-seeded, which are always hardy.

Sweet Peas of any variety will generally bloom in 60 or 70 days after they germinate.

Separate Colors. 1 oz. 75c; pkt. 15c.

Very Choice Mixed. Oz. 15c; pkt. 5c.

Spencer's Giant Mixed. Oz. 35c; pkt. 15c; ¼ lb. \$1.00.

For Flower Seeds see pages 23 to 28.



Rare Beauty and Fragrance of the Sweet Pea Make them the Pride of Every Garden

PARCEL POST RATES WITH- IN U. S. AND POSSESSIONS FROM ST. LOUIS, MO.

	First Pound or Fraction	Each Additional Pound or Fraction
First Zone, within 50 miles of St. Louis.	7c	1c
Second Zone, within 50-150 miles of St. Louis.	7c	1c
Third Zone, within 150-300 miles of St. Louis.	8c	2c
Fourth Zone, within 300-600 miles of St. Louis.	9c	4c
Fifth Zone, within 600-1000 miles of St. Louis.	10c	6c
Sixth Zone, within 1000-1400 miles of St. Louis.	11c	8c
Seventh Zone, within 1400-1800 miles of St. Louis.	13c	10c
Eighth Zone, all over 1800 miles of St. Louis.	14c	12c



Petersen's Calendula

Weight Limit—The weight limit within the first, second and third zones is 70 pounds and within all other zones 50 pounds. If in doubt, obtain your zone rate from your Postmaster.

Shipments of 20 pounds or over are cheaper if sent by Express beyond the third zone.

Express and freight rates are cheaper in large quantities. We make no charge for delivery to freight depot or express office.

CALENDULA

One of the best and showest free-flowering hardy annuals, growing in any good garden soil, producing a fine effect, in beds or mixed borders, particularly bright in late fall, continuing in bloom from early summer until killed by frost; valuable also for pot culture blooming freely in winter and early spring. Height 12 in.

The Ball. It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite. **Pkt. 25c.**

Apricot. A charming and delightful shade, soft yellow with a suggestion of salmon-pink. **Pkt. 10c.**



Petersen's Dahlia-Flowered Zinnia

ZINNIAS

The most gorgeous annuals with a wonderful range of color. Beautiful old rose, dainty cream, striking red and brilliant yellow flowers of velvety texture, extremely double, with long stems and good keeping qualities make this old-fashioned flower a joy in the garden.

The Giant Flowering produce such enormous blooms that they appear as greenhouse Chrysanthemums. They will thrive in any sunny place. In transplanting give the young plants plenty of room, about 18 inches apart. The seed can be started in boxes indoors in March or sown directly in the open ground in May. Grows bushy plants about 15 inches high, bearing immense double flowers.

Pkt. 25c.
Dahlia-Flowered. The plants of this new variety are very sturdy and produce many flowers of large size. The colors are soft and pleasing and the broad petals are closely imbricated. Flowers often measure 4 inches in depth and 6 to 8 inches in diameter. **Pkt. 25c.**

Sec. 435 1/2 P. L. & R.
U. S. POSTAGE
Paid
ST. LOUIS, MO.
Permit No. 994

JULIUS PETERSEN COMPANY

709 Carroll St.
ST. LOUIS, MO.