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62.11

1915

Barteldes

SEEDS

48TH YEAR



'Twas nigh
onto 50 year
ago when I
began with
Barteldes



BARTELDES

BARTELDES



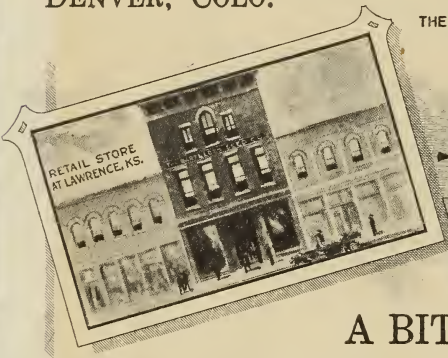
BUILDINGS OF THE BARTELDES SEED CO.

LAWRENCE, KANS.

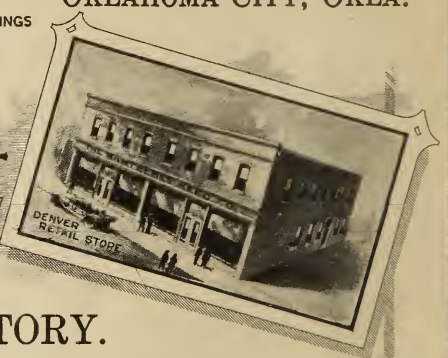
DENVER, COLO.

OKLAHOMA CITY, OKLA.

THE SIZE OF THESE BUILDINGS
SHOW WHAT STOCKS
WE CARRY



160,000
SQ. FT. OF
FLOOR
SPACE

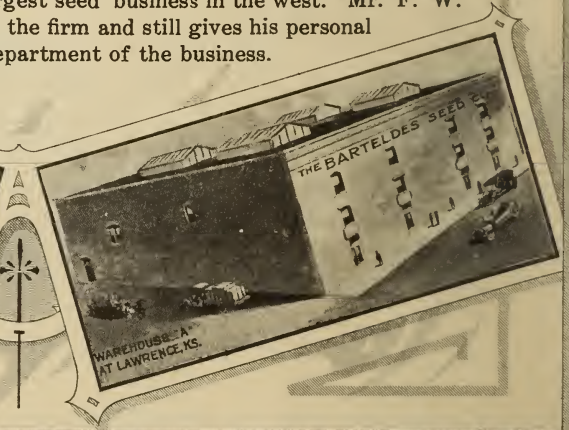
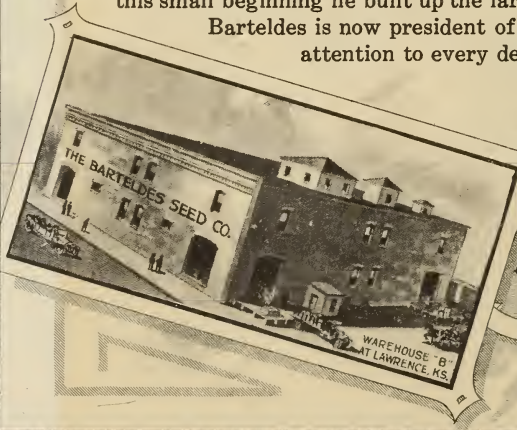


A BIT OF HISTORY.

The Barteldes Seed Co. was founded by Mr. F. Barteldes who came over from Germany and settled in Lawrence in 1858. He opened up a small shop and sold fish, watermelons and other produce. As trade increased he put in a line of bread, cakes, candy and then a few seeds. The early settlers did not have much money to spend on such luxuries as cakes and candy but seeds were very necessary and the trade in seeds gradually crowded out the other articles in Mr. Barteldes' little store.

In 1874 Mr. F. W. Barteldes came over from Germany, bringing a little more capital and more energy. The young Mr. Barteldes gave his entire attention to the seed business and from this small beginning he built up the largest seed business in the west. Mr. F. W.

Barteldes is now president of the firm and still gives his personal attention to every department of the business.



The Barteldes Seed Co.

DENVER, COLORADO

HEADQUARTERS FOR

Western Seeds for Western Planters

To Our Friends, Our Customers:

It is with pleasure that we hand you our Seed Annual of the 48th year of our business. We appreciate the orders you have given us and assure you that all orders, whether large or small, shall have our most careful attention.

We believe that a few words here explaining our way of doing business will be of interest and will also save some time in future transactions.

When we receive your order we give it a number, enter it in our order book, and send you a postal card acknowledging receipt of the order and stating the number. The order is then carefully checked up and at once sent to the proper department. All orders are filled at once, or in case of a big rush of business, within a day or two. If for any reason there is longer delay we will write you about it.

If order goes by mail no further notice is sent, but if it goes by express we send you a postal card giving date of shipment, and if it goes by freight we mail you the Bill of Lading.

We deliver in good order to the express or railroad company, but here our responsibility ceases. We are, however, always glad to do what we can in the way of tracing shipments, etc. If a shipment should arrive short or in bad order be sure and have your agent make a note of it on your expense bill.

ABOUT GUARANTEE. Our seeds are all carefully selected and thoroughly tested as to vitality. All orders are taken and all shipments are made subject to your being satisfied with the seeds on arrival. You can examine them and have germination tests made. Then if you are not satisfied and will notify us within five days of receipt of shipment we are willing to refund the money paid for them and take the seeds back. We can entertain no claim after five days or after seeds have been planted, as seeds of the best quality often fail through various causes beyond human control; therefore we give no warranty, expressed 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 they are at once to be returned.

ABOUT PRICES. In consideration of the high quality of our seeds our prices are very low. All prices are subject to market fluctuations, but as a rule the prices of garden seeds hold good during the season.

Prices of field seeds change constantly and we therefore issue our "Pink List," giving current prices of field seeds. We issue this frequently and are always glad to send it when asked to do so. A postal card will bring it to you.

In case the price is different from what you figure on in your order we will, unless you give us instructions, use our best judgment as to whether to send you more or less seeds, or perhaps write you in case the difference is considerable. You will in all cases get the full value of your money.

Seeds by Mail. We will send postpaid all Garden and Flower Seeds at the prices given in the following list, with exception of heavy seeds, as Beans, Peas, Corn, Clover, Grain and Grass Seeds. If you order these by mail, be sure to add 5 cents a pound to cover postage in small lots and on larger quantities apply regular parcel post charges.

Seeds Now Go By Parcel Post.

Take advantage of this low rate of postage. The rates for the lower zones or up to a distance of 300 miles are very low and you can have your seeds delivered right to your door for less money than it would cost you to drive to town. Your postmaster can give you the rate to your postoffice.

How to Order.

Fill out the order sheet enclosed herewith, writing your name and address very plainly.

SEND CASH ALONG WITH ORDER.

Remittances may be made by Money Order, Draft, Stamps or Currency. We accept any amount of 2-cent stamps the same as cash. Be sure you register your letters if they contain cash. Money orders are the most economical and practical means of remitting.

ORDER EARLY! We will appreciate it if our customers will favor us with their kind orders as early as possible.

Send in your orders. You will be pleased with our service and well satisfied with our seeds.

BRANCHES.

We have houses in Lawrence, Kans., and Oklahoma City, Okla., and if for reason of lower freight rates or prompter service a customer prefers to order from either of these places we assure him equally fair treatment.

FREE PREMIUMS

BARTELDES COOK BOOK.

A splendid book of 130 pages brim full of excellent recipes selected by experts from the contributions of over 2,000 chefs. Gives a lot of valuable information about making all things good to eat. The recipes are up-to-date and the instructions are complete.

This book should be in every kitchen.

BARTELDES FARM GUIDE.

An excellent book of 186 pages of useful information for the farmer, stockman, gardener, poultryman and fruit grower. The book deals with all phases of farm life and the information is reliable. We offered this book last year and received many favorable comments on it.

THESE BOOKS ARE ABSOLUTELY FREE.

We will send you a copy of either of the above books, postpaid, absolutely free with an order of \$3.00 worth of Garden and Flower Seeds, or \$5.00 worth of Field Seeds.

Premium Packets.

Customers sending orders for seeds in packets and ounces not included in collections amounting to..... 50c \$1.00 \$2.00 \$4.00 may select additional packets or ounces amounting to, extra..... 10c .25 .50 1.00

Positively, the above offer is for seeds in packets and ounces only. Not in bulk, or other goods, and discount cannot be applied as postage.

We give to our customers on orders for mixed quantities of GARDEN AND FLOWER SEEDS, positively free, choice of following:

Orders amounting to \$2.00 or over

Book, Practical Suggestions for Vegetable Culture, written by a practical man and prepared expressly for the vegetable gardener.

Orders amounting to \$5.00 or over

Customers' selection one of the following books:
Vegetable Gardening. Prof. Green's latest edition; 115 illustrations.
The Poultry Manual, revised edition; 144 pages.
Spraying Crops; Why, When and How. By Prof. Weed.
Asparagus. Its culture for home use and market.
House Plants and How to Succeed With Them. Profusely illustrated. Just what the ladies want.
Amateur Fruit Growing. A reliable guide for beginners, also helpful to the experienced.



Sudan Grass

A New Hay Crop for the West.

Sudan Grass was brought into the United States in 1909. It has been thoroughly tested since then and has been found to be a most valuable crop for the West.

It stands dry weather and makes a fine crop of hay that is superior to Millet hay and equal to Timothy. Sudan Grass grows seven to nine feet tall, branches out wonderfully and the stems are rarely thicker than a lead pencil.

Under ordinary conditions the yield is from two to four tons of hay per acre and under irrigation the yield goes as high as eight and ten tons per acre.

Sudan Grass should not be planted until weather is thoroughly warm and gives best results when planted in rows and cultivated.

In rows it takes from 4 to 6 pounds per acre and when in drills or broadcast 16 to 24 pounds. Price 50c per lb.

Black Beauty Pop Corn

A distinct variety obtained by crossing the old Indian Squaw Corn with White Rice Pop Corn. The kernel is black, but when popped is nice and white. Black Beauty matures early and is ready for popping before other varieties. Pops very large and is very tender.

Pkt. 10c; ½ lb. 15c; 1 lb. 25c, postpaid

Tepary Beans

A Drouth-Resisting Bean raised by the Indians in Arizona. Prof. Clothier of the University of Arizona says: "After three years of experimenting with the Tepary Bean I am prepared to say it is one of the most wonderful plants ever presented to the dry farming public."

Tepary Beans will make a fair crop in 75 days and a good crop if they have 90 days. If it is struck by a drouth it will ripen the pods already set and when the drouth breaks it will set and ripen a new crop.

Under ordinary dry farming conditions they yield from 450 to 700 lbs. per acre. The beans are white, cook well, have a delicious flavor.

They have been grown by Indians for thousands of years without irrigation with an annual rainfall of 9 inches.

Price 25c per pound. Not postpaid, 1 lb., 20c; 2 lbs., 35c; 10 lbs., \$1.50

Dwarf Black-Hull White Kaffir

There has been a constant demand the last four years for Dwarf Kaffir Corn. This year we are able to supply it. The value of the dwarf kaffir over the tall is apparent. In the first place the Dwarf Kaffir can be harvested with a grain header. By being able to harvest Kaffir in this manner a considerable saving in labor is effected. In the second place plants of dwarf stature expose less surface to the sun, and therefore can get along with less water.

Price: Per pkt. 5c, per pound postpaid 15c; not prepaid 5 lbs. 30c, 25 lbs. \$1.00,

For prices of larger quantity see Pink List.



LOS ANGELES LETTUCE.

Los Angeles Lettuce

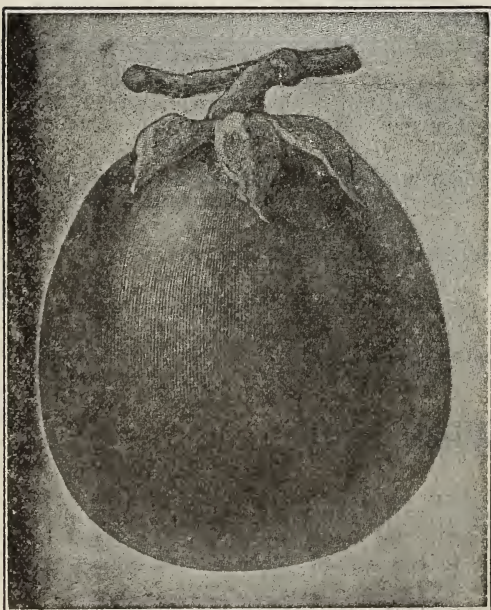
One of the best varieties for main crop. When the few outside leaves are stripped off, there remains a shapely head as hard and large as a small cabbage with interior yellowish white, crisp and tender.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50

Lettuce—Shipper's Favorite

One of the best head lettuces for summer planting, as it is practically the only lettuce that will head good during July and August. Heads are not as large as Big Boston, but the inner leaves will not decay as quickly during the hot weather. The leaves have not the reddish border of the Big Boston.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.40.

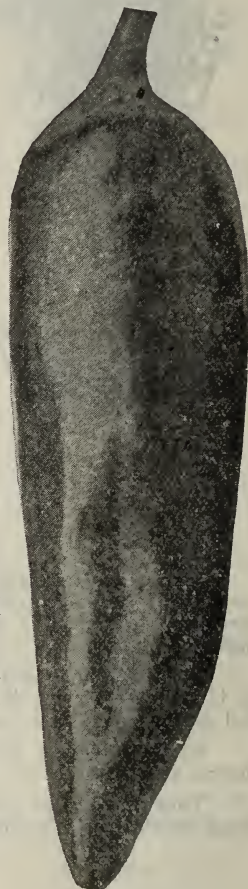


BLACK BEAUTY EGG PLANT.

Black Beauty Egg Plant

The earliest large fruited variety. The fruits set freely and develop quickly so the entire crop can be harvested before frost. They are large, thick and of a rich lustrous purplish black. The calyx is entirely free from spines or thorns.

Pkt. 10c; $\frac{1}{2}$ oz. 25c; oz. 40c; $\frac{1}{4}$ lb. \$1.15.



ANAHEIM PEPPER.

Anaheim Pepper

Plants are very vigorous and produce fruits 6 to 8 inches long, tapering from $1\frac{1}{2}$ to 2 inches in diameter at top to almost a point. When dried they are a brilliant scarlet and are still more pungent than the Black Mexican Chili Pepper.

Pkt. 5c; $\frac{1}{2}$ oz. 15c; oz. 25c; $\frac{1}{4}$ lb. 75c



MICHIGAN WHITE WAX BEANS.

Michigan White Wax Beans

An extra fine wax bean. This is sometimes called the White Seeded Golden Wax. The plants grow larger than the Golden Wax and bear a splendid crop of larger meaty pods of golden yellow color, very uniform and exceedingly attractive. Without doubt one of the very best wax beans.

Pkt. 10c; $\frac{1}{2}$ lb. 20c; lb. 35c; 2 lbs. 65c postpaid; not postpaid, lb. 25c; 2 lbs. 40c; 10 lbs. \$1.75.

Kudzu Vine

Jack-in-the-Bean-Stalk Vine—*Pueraria Thunbergiana*. The most rapid growing plant we have ever seen. It dies to the ground each fall, but makes the remarkable growth of from 50 to 70 feet each summer. The leaves resemble those of the lima bean and the foliage is very dense. Will grow anywhere and can stand an immense amount of hot weather. It grows slowly at first but when once started it will surprise you. You can almost see it grow. Fine for covering porches, arbors or old trees.

Seed, per pkt. 5c; $\frac{1}{4}$ oz. 30c. Root 25c each, 3 for 60c, postpaid.

New Early Cabbage

Copenhagen Market.

Without doubt the finest, largest round-headed early cabbage in cultivation. The type is fixed and heads mature all at the same time. This is a big advantage to the market gardener. The heads are large, averaging about 10 pounds, are very solid and of fine flavor. It matures as early as the Wakefield and yield is much heavier. The plant is short stemmed. Color is light green. Seed from originator in Denmark.



Pkt. 15c; $\frac{1}{4}$ oz. 30c; oz. 50c; $\frac{1}{4}$ lb. \$1.60.



WHITE PEPPER

White Prince Pepper

A Real Novelty.

Be the first to show this new White Pepper in your neighborhood. While all other peppers are green in the edible stage and turning rapidly red or yellow when ripening, this new variety is distinguished by its shining creamy white color in the edible stage. The peppers are 3 to 4 inches long and about 9 inches in circumference. They remain white until they have reached their full size when they begin to change to yellow and finally to a brilliant orange.

Per packet 10c

Bush Musk Melon

This new melon will attract a great deal of attention. The plant makes a compact bush instead of a vine and therefore can be grown to advantage in a small garden. Should be planted in hills three feet apart and thinned to 3 or 4 plants to the hill.

The melons are not large, but the quality is excellent. Each plant sets a good many melons and better results will be obtained if only half of these are allowed to ripen.

Plant a packet of this new melon and show your neighbors a curiosity. Per pkt. 10c

Chalks Early Jewel Tomato



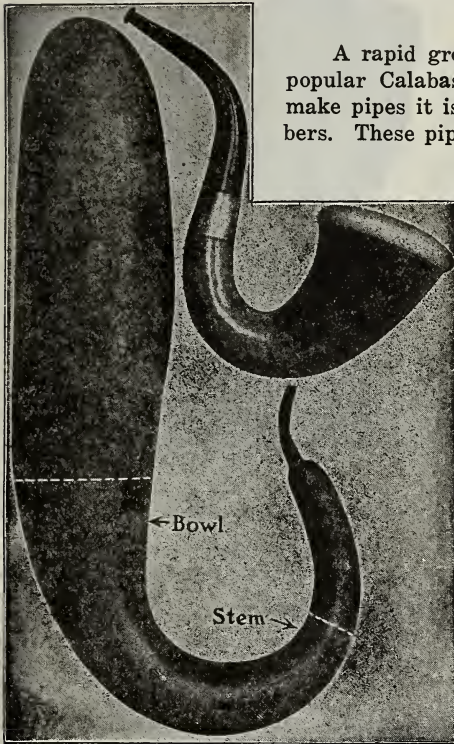
CHALK'S EARLY JEWEL TOMATO

Of most handsome appearance, finest flavor and early ripening qualities, this new bright red Tomato is destined to become a leader among the already numerous popular varieties. In time of ripening it is within a week or ten days later than "Spark's Earliana," the well known earliest of all bright red tomatoes. The extremely handsome fruits are of the finest table qualities, possessing remarkably sweet flavor. They are solidly meaty, having small seed cavities and are not apt to crack. The plants are of robust growth, strong, producing fruits throughout the season, and for this reason we recommend to plant "Chalk's Jewel" not only for an early crop producer, but as one which may be planted as a main crop as well.

For general garden planting, where customers wish to limit their choice to one variety, we can safely recommend "Chalk's Early Jewel" as the variety which will give the best satisfaction. Pkt. 10c; ½ oz. 15c; oz. 25c; ¼ lb. 75c

Calabash Pipe Gourd

A rapid growing climbing annual from South Africa. The very popular Calabash Pipes are made from the fruit. When grown to make pipes it is best to let the vines run on the ground like cucumbers. These pipes are very light and color nicely. Pkt. 10c



CALABASH OR PIPE GOURD

Red Sunflower

Horticulturists have been trying for years to get a Red Sunflower. They have not quite succeeded, but have come very near it. We offer a flower the petals of which are red and tipped with yellow. This is a decided novelty and will please you. Pkt. 15c

Mammoth Chinese Cabbage

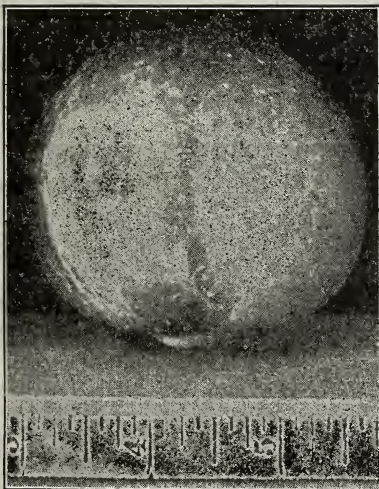
This Cabbage measures 29 inches in diameter. This Cabbage does not form a head like our cabbage, but forms a loose head of very large juicy leaves. These leaves are eaten like greens and make excellent food when boiled with beef.

It requires, like all Chinese Cabbages, a rich well drained soil with abundant moisture. It should be sown in June or July and transplanted to open ground in August, two by two feet apart.

Pkt. 10c; oz. 25c

Lemon Cucumber

Here is a cucumber in the shape of a lemon, and having a flavor that at once puts it ahead of the common cucumber. It is bound to become a great favorite as a table delicacy. It is an excellent shipper, and pickled as a gherkin, is delicious. Pkt. 10c; oz. 20c; ¼ lb. 70c; lb. \$2.00.



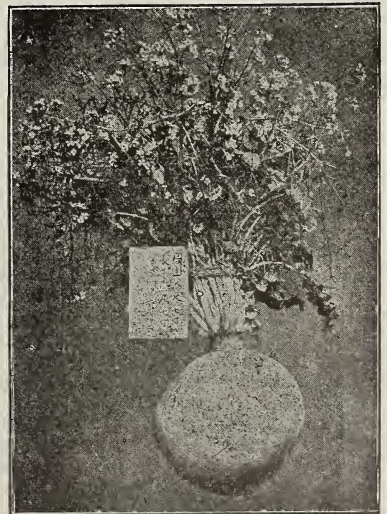
LEMON CUCUMBER

mild flavor, attaining a length of 2 feet, and a diameter of 1 foot or more.

Should be sown in July in drills 2 feet apart and thinned to 1 foot apart in the rows. If sown in the spring the winter radishes are apt to go to seed and form no root. In China and Japan they are most commonly eaten cut in chunks and pickled in brine; also sliced or shredded when fresh. Pkt. 10c; oz. 20c

Sakurajima Radish

This Japanese curiosity is the largest of the oriental winter radishes. It is a white variety of a good quality and



SAKURAJIMA RADISH

Witloof Chicory

FRENCH ENDIVE.

A few years ago this salad vegetable was almost unknown in America. It is now on the bill of fare of all first class restaurants. Although mostly imported as yet, it is an easily grown winter vegetable which can be raised in every home.

We have many customers that are growing it successfully and are very enthusiastic about it, for it furnishes a delicious salad in winter when other fresh vegetables are not available.

Plant seed in March or April. Lift the roots in November or December, and store in sand in a cool place until ready for starting into growth in soil in the cellar.

Forcing or growing is done any time from December 15, until spring, in good soil in cellars, hot beds or outdoors.

Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00

Barteldes' Stringless Green Pod

We offer this fine new stringless bean, which is not only of fine quality, but especially valuable, being a week or ten days earlier than other stringless varieties.

The plant is small, bushy, very erect, compact, of well rounded form and prolific. Pods are about 4½ inches long, straight, bright green, oval round through cross section and contain 5 to 6 seeds. The seeds are yellowish and of good size.

Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 60c postpaid.

By express not paid, lb. 25c; 2 lbs. 40c; 4 lbs. 70c; 10 lbs. \$1.60



WITLOOF CHICORY

Fordhook Bush Lima

This potato lima was bred from the old Kummerle or Dreer Bush Lima and is much superior to its parent. It has the very excellent habit of growing stiffly erect and therefore keeping its bean off of the ground. Contact with the ground discolors beans and is very detrimental to them.

The plants are about thirty inches high and bear an immense crop of fine large pods. The pods are borne in clusters of from five to eight and measure five to six inches long. The beans are delicious and mature eight to ten days earlier than other bush limas.

Pkt. 10c; ½ lb. 25c; lb. 45c; postpaid. Not postpaid, lb. 35c; 2 lbs. 65c; 4 lbs. \$1.20; 10 lbs. \$2.00.

The New "June Pink" Tomato

Undoubtedly the best pink-fruited early Tomato in cultivation. It is fully as early as "Spark's Earliana," of high productiveness and the vines are absolutely blight proof. The splendid round, solid, meaty Tomatoes are the attraction of the markets, and when bright red varieties were bringing \$1.25 to \$1.50 per crate, "June Pinks" sold for \$2.25 to \$2.50.

The plants are very thrifty, making a very vigorous growth. The fruits are usually set in large clusters and run from 2½ to 3½ inches in diameter. They stand shipping exceedingly well and bring highest prices wherever offered. The Tomatoes are solid, free from core, have only few seed cavities and the meat is of fine flavor. "June Pink" is altogether the most desirable pink variety of first crop. It will, we are sure, be a great "money maker" for truckers.

Pkt. 10c; ½ oz. 20c; oz. 35c; ¼ lb. \$1.00

White Delicious Radish

Not since the now popular "Icele" Radish was brought to us from Germany years ago have we found such an excellent Radish as the "White Delicious," which we now offer to "Western Planters." "White Delicious" is particularly adapted for summer use, producing handsome olive shaped roots, which are pure white, exceedingly crisp and of mild flavor. "White Delicious" requires a longer time to mature than the earlier varieties of Radishes, but it remains in fine condition much longer. It is altogether the most desirable variety for summer use and we are sure our customers will like it.

Per Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

New
Bush
Bean



Round
Podded
Kidney Wax

This exceedingly handsome bean is by far the best that has been offered to our customers for some years. It is a decided improvement over Wardwell's Kidney Wax, with far handsomer pods and of better quality. Under ordinary culture, this new variety will yield as many pods as Wardwell's, while its absolute stringlessness and fine delicate flavor makes it by far the most desirable Wax Bean yet introduced. The illustration from a photograph, will convey some idea of the handsome appearance of the pods. Market gardeners can rest assured as long as there are Round Kidney Wax Pod in the market no other variety will have a show. These fleshy pods are about six to seven inches long and one-half inch broad and three-eighths of an inch thick; the color is a rich lemon yellow, a color that will catch the eye. Be sure to have at least one row of these fine beans in your garden. You will be surprised to see what a splendid lot of beans you will have next summer.

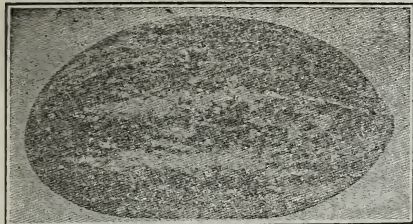
Pkt. 10c; ½ lb. 20c; lb. 35c; 2 lbs. 60c, post-age paid; by express, not prepaid, lb. 25c; 2 lbs. 40c; 4 lbs. 70c; 8 lbs. \$1.25.

Beans—Shippers' Green Pod, or Longfellow

Pods are long, round, straight and of dark green color. Flavor is very fine and the plants are very productive. On account of the fine appearance they always find a ready sale at an advanced price.

Pkt. 5c; $\frac{1}{2}$ lb. 15c; lb. 20c; 10 lbs. \$1.80.

MUSK MELON WINTER CASABA. Winter Melons are becoming more popular every year and these two varieties have given best results.



CASABA.

SANTA CLAUS. The name is well appropriated, as you cannot have anything more delicious for your Christmas dinner. The rind has the appearance of a mottled pomegranate. The shell is hard and about one-eighth inch thick. There is no seed cavity. The seeds are embedded in a jelly-like pulp. The light green flesh is absolutely stringless. Plant the seed early; pick when the green turns to bright yellow and put away until slightly soft.

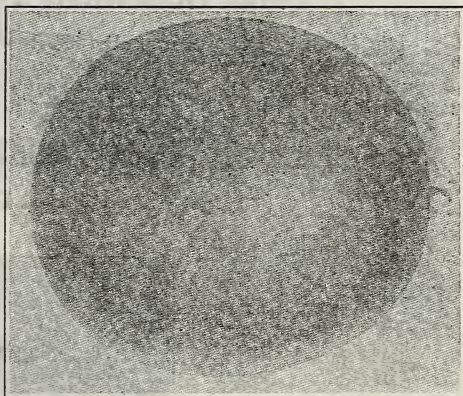
Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50

WINTER PINEAPPLE. This is the green melon used extensively for shipping East for the holiday and winter trade. Melons do not mature on the vines and the flavor is greatly improved by being stored in a cool place.

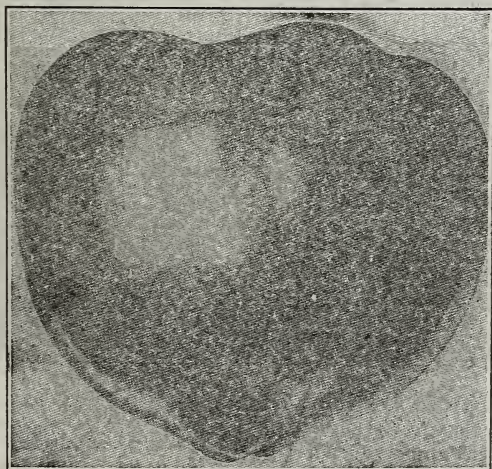
Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00

Water Melon, Angeleno

The deep red flesh and excellent flavor of this melon commends it to the consumer, while the beautiful dark green color of the rind makes it attractive to the buyer. Do not pick until the yellow shows slightly through the green, as it is a sure sign that the melon is ripe. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50



ANGELENO



PIMIENTO PEPPER.

Pepper Pimiento

This new pepper is very mild, with thick heavy flesh and has a delicate flavor. The shape is very good, being of medium length and smooth. It presents an attractive appearance when filled for the table. It is also delicious when used in salads or creamed like onions. Very prolific and a good shipper.

Pkt. 10c; $\frac{1}{4}$ oz. 15c; oz. 50c; $\frac{1}{4}$ lb. \$1.50

**A SPLENDID NEW CABBAGE
FROM DENMARK.**



**Mariendaler
Stonehead**

Our correspondent in Denmark, from whom we obtained this fine new cabbage, describes it to us as being the finest white cabbage he ever saw, and he has grown cabbage all his life.

Mariendaler Stonehead belongs to the class of "Danish Ballhead Cabbages." It forms fine, symmetrical and compact heads of bluish white color. The plant grows to good size and is shorter stemmed, forming fine large round heads of unusual solidity, hence the name—Stonehead. The mature heads are of excellent keeping quality, being if sheltered properly, in excellent condition as late as June.



MARIENDALER STONEHEAD CABBAGE

Taking everything into consideration, Mariendaler Stonehead deserves the highest recommendations and should quickly attain great popularity. Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. \$2.50

New Bohemian Horseradish Maliner Kren

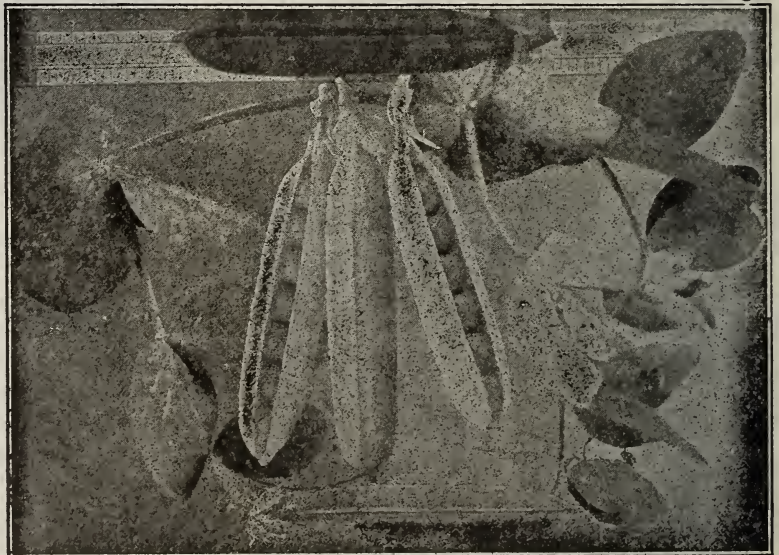
The Maliner Kren Horse Radish Roots were introduced by the U. S. Department of Agriculture. They are much earlier and produce better than the ordinary sort. The roots grow larger, are whiter, and quality is far superior. All who grow Horse Radish should try this variety. Dozen 25c; 50 for 70c; 100 for \$1.25, postpaid.

Peas—Pedigree Extra Early

Undoubtedly the Best of All Extra Early Peas.



Equally as early as the choicest strain of Alaska and the peas are of much better flavor. The vines are strong bearers, producing an abundance of fine pods, generally 2½ to 3 inches long, well filled with from six to seven fine sweet peas. The peas ripen very uniformly and the whole crop can generally be gathered in one picking, a fact which should particularly appeal to Market Gardeners.



PEDIGREE EXTRA EARLY

The first peas command the highest prices and if you have a lot of them, a good share of the money spent for the first fresh vegetables will come to you.

Pkt. 10c; lb. 40c; 2 lbs. 65c postage paid. By Express: 2 lbs. 45c; 4 lbs. 90c; 10 lbs. \$2.00

Dimorphotheca Aurantiaca

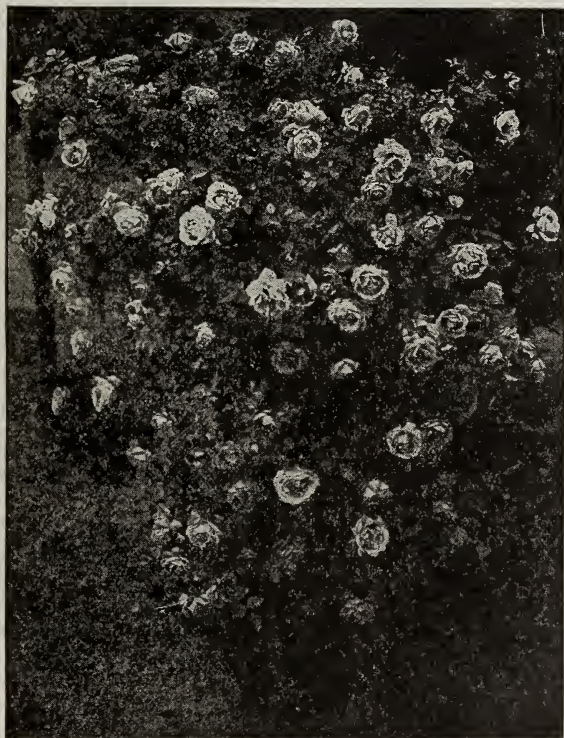
THE AFRICAN GOLDEN ORANGE DAISY.

This is an extremely showy annual of easy culture and is a beautiful flower. The hardy plant has a branching habit, growing 10 to 12 inches in height, and is an exceedingly profuse bloomer. The marguerite-like blossoms, about $2\frac{1}{2}$ inches in diameter, are of a rich, glossy orange color. Pkt., 10c.

Hybrids Mixed—Various colors. Pkt., 10c.

The Mexican Ever-Blooming Single Tuberosc.

They have tall, stiff stems, with single pure white flowers, delightfully fragrant. They should not be planted before danger of frosts is passed. They never blight and the smallest bulb blooms the first season, generally sending up from 5 to 15 flower stalks. If the stalk is cut when the first flower opens and put in water the flowers increase in size and whiteness and keep for a week or ten days. Planted in May will bloom in August. Ea., 10c; 2 for 15c; doz., 65c.



Climbing American Beauty Rose.

Climbing American Beauty Rose.

NEW.

The Climbing American Beauty is the result of a cross between an unnamed seedling and the grand old American Beauty, thereby producing an American Beauty rose of the same color, size and fragrance as its parent, with the addition of beautiful, lasting foliage and better blooming quality. One plant of this new rose will produce twenty times as many blooms in June as the old American Beauty, besides blooming occasionally during the summer. The roses grow on single stems, measure three to four inches in diameter, and have an exquisite fragrance. While the old American Beauty is rarely satisfactory planted in the open ground, this new rose has proved perfectly hardy, stands heat and drouth well, and the foliage is green and beautiful until the snow falls. It can be trained to trellises and porches, grown in bush form, and is unequaled as a pillar rose. Our plants are not budded, but grown on their own root. Price, each, 60c, postpaid.

STANDARD VARIETIES OF VEGETABLES.

SEEDS BY MAIL.

We will send postage paid, all Vegetable—and Flower—Seeds, at the prices given in this catalog except heavy seeds, such as Beans, Peas, Corn, Field Seeds, Grass Seeds and Onion Sets. If these are wanted by mail it will be necessary to add to the remittance 5 cents per pound in small lots or in larger quantities regular parcel post charges. Seeds can now go at parcel post rates. We sell half pounds of garden seeds at the pound rate.

Artichoke.

Artichoke.

Alcahofa.

CULTURE. Sow in April in rich soil and transplant the following spring to permanent beds (in rows or hills) three feet apart and two feet between the plants. Green Artichoke gives only partial crop the first of the season, but the beds will be bearing for years. Protect in winter by a covering of leaves or coarse manure.

LARGE GREEN GLOBE. The standard variety. Produces large, globular heads, scales, green shading to purple.

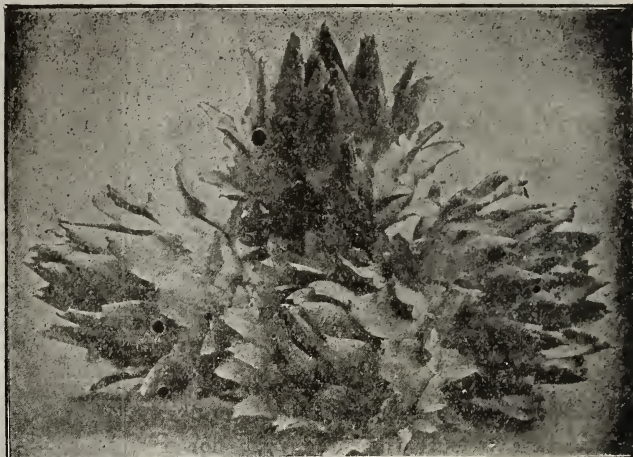
Pkt. 5c; oz. 35c; $\frac{1}{4}$ lb. \$1.00

JERUSALEM ARTICHOKE.

Cultivated for its roots, which make an excellent crop for stock feeding. Tubers in season.

5c per pound, postage 8c extra.

For full description and prices in quantities, see page 88.



ARTICHOKE, LARGE GREEN GLOBE.

Asparagus.

Spargel.

Asparago.

CULTURE. The seed can be sown in any garden soil and should be sown in rows about 14 inches apart as early in the spring as possible. Cultivate thoroughly and thin plants to three inches in the row. The permanent bed should be of deep, rich, loamy soil, well stirred, and as these beds must bear for a good many years they should be well manured and fertilized. If the soil is of stiff clay it should be loosened up by using plenty of sand or even coal ashes. Have rows from two to four feet apart and set the plants a foot apart and at least six inches below the surface. Cut sparingly the second season but after that the beds will yield full crops. One ounce of seed will produce about 250 plants and it takes four to five pounds to the acre.

For full directions how to grow Asparagus, get our Asparagus Book by Hexamer, price 50c.

COLUMBIAN MAMMOTH WHITE. A magnificent variety. It furnishes fine, white shoots, which stay white as long as they are fit to use without any artificial means of blanching.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c

CONOVER'S COLOSSAL. The standard sort, of a large size and excellent quality.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 55c

EARLY ARGENTEUIL. Just recently introduced. It is very early and of extremely vigorous habit, two qualities which make this variety less apt to be attacked by rust. The flavor of the stalk is very delicious. It is appreciated wherever there are people who relish Asparagus.

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

PALMETTO. Of bright green appearance, very large size and even, regular growth. Its immense productiveness combined with earliness and good qualities, make it a fine variety for general use.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c

ROOTS OF THE ABOVE VARIETIES. 25c per dozen; \$1.25 per 100. Price for larger quantities on application.



ASPARAGUM.

Beans.**NOTICE.**

We are selling everything by the pound. A pound of beans is equal to a little more than a pint.

In ordering beans, peas and sweet corn, corn, grass and other field seeds by mail please add postage 5 cents per pound in small lots and regular parcel post charges for larger quantities. Seeds now go at regular parcel post rates.

CULTURE. Plant in drills about two inches deep and from 18 inches to two feet apart, according to the richness of the soil—the poorer the soil the closer the rows can be—and the plants should be about 4 inches apart. A succession of sowings can be made from the first week in May until August. One pound to 60 feet of drill; 1 to 1½ bushels to the acre.

Shippers' Green Pod or Longfellow.**Barteldes' Stringless Green Pod**

SEE NOVELTIES.

Beans, Full Measure.

We offer for the second time this fine new bush bean. This is a green pod bean and the pods are absolutely stringless, long, more or less curved, round, deeply creased back, sharply constricted between seeds, dark green, extremely brittle, and totally without fibre.

The plant is large and very erect when young, but becomes weighted down when fully developed. This bean matures early, has a moderately long bearing period and is heavily productive.

This bean, because of its absolute stringless, brittle, fiberless green pods, is going to be one of the most popular varieties on the market.

Pkt. 10c; ½ lb. 20c; lb. 30c; 2 lbs. 50c; postpaid. By express not prepaid, lb. 25c; 2 lbs. 40c; 4 lbs. 70c; 10 lbs. \$1.65.

STRINGLESS GREEN POD.

The best green podded bean on the market. It is very early, extremely vigorous and produces an abundance of brittle, stringless pods.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

EXTRA EARLY RED VALENTINE.

An old favorite and has only recently been surpassed by the Stringless Green Pod. Very prolific and the pods are fine and round, and very tender while young. It is as early as the preceding one, but the pods are not quite as long nor as straight.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

EARLY YELLOW SIX WEEKS.

The pods are long and flat and of a bright green color. Plants form erect bushes.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

EXTRA EARLY REFUGEE OR BROWN SPECKLED VALENTINE.

This may be called one of the second early sorts. Pods are round, of good flavor, but because of the great vigor of the bush it needs twice the usual room.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

GIANT STRINGLESS GREEN POD VALENTINE.

The round, meaty pods resemble the Early Red Valentine, but this bean matures a week or ten days later. The pods are quite stringless and brittle at all stages and this variety is to be recommended highly.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

DWARF HORTICULTURAL. An excellent soup bean in summer, a fine baking bean in winter.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.40

LARGE WHITE MARROWFAT. The standard of white soup beans.

Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.25

BROAD WINDSOR. Quite hardy and consequently can be planted very early.

Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.25

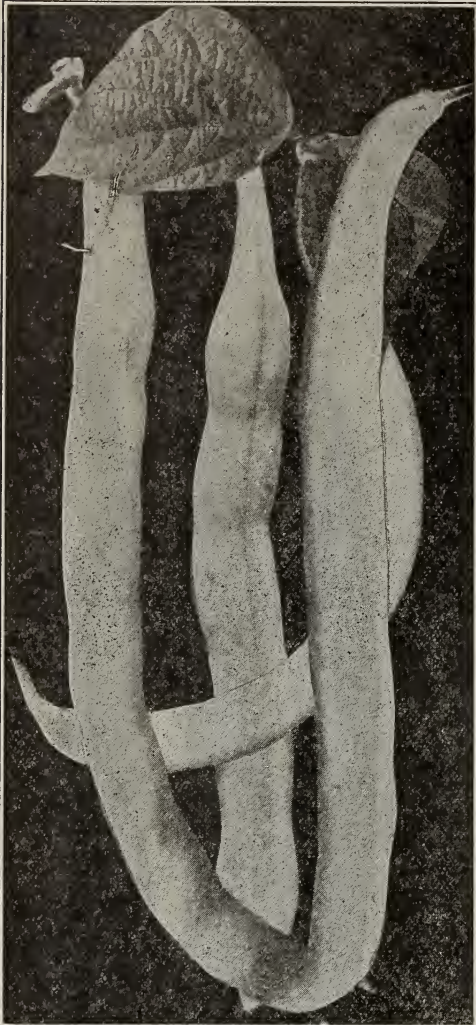
WHITE KIDNEY. One of the best for winter use.

Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.25

SAMPLE PODS, STRINGLESS GREEN POD.



CALIFORNIA CREAM BUTTER. White, very large round seed; growth 24 to 30 inches in height, and of branching habit. The best for winter use. Pkt. 5c; ½ lb. 10c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.20.



ROUND PODDED KIDNEY WAX. (See page 8)

Beans—Continued.

Postage 5 cents per pound in small lots and regular parcel post charges in quantities.

Wax Pods.

IMPROVED GOLDEN WAX. (Rust Proof.)

The standard wax bean for years. The pods are large, slightly flattened, brittle, quite stringless when young, and of golden wax color. It is very tender, of fine flavor, and is unexcelled as a shell bean for winter use. The bushes are of compact growth and very prolific.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.60

DWARF GERMAN BLACK WAX.

Sometimes called Butter Beans. One of the earliest varieties, producing fine, round meat, pods of good quality.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.60

WARDWELL'S KIDNEY WAX.

Highly recommended for private planters and market gardeners. The pods are flat, straight, and are produced in large quantities.

Pkt. 5c; lb. 20c; 2 lbs. 40c; 10 lbs. \$1.75

PENCIL POD BLACK WAX.

Plant grows about 15 inches high, very productive, with straight pods 6 to 7 inches long, light golden yellow color, round, meaty and deeply saddlebacked; flesh brittle, solid and stringless; flavor fine.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.60.

CURRIE'S RUST PROOF BLACK WAX.

As near rust proof as a good bean can be. Very vigorous and hardy and productive.

Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.60

DAVIS' WHITE WAX.

This bean does not discolor, and is therefore excellent for canning. It is immensely productive and a very good shipper. The pods are straight and 5 to 6 inches in length. The dry bean is white and very desirable for winter use.

Pkt. 5c; lb. 20c; 2 lbs. 40c; 10 lbs. \$1.75

FLAGEOLET WAX.

An early wax variety; long pods. Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.60.

Bush Lima Beans.

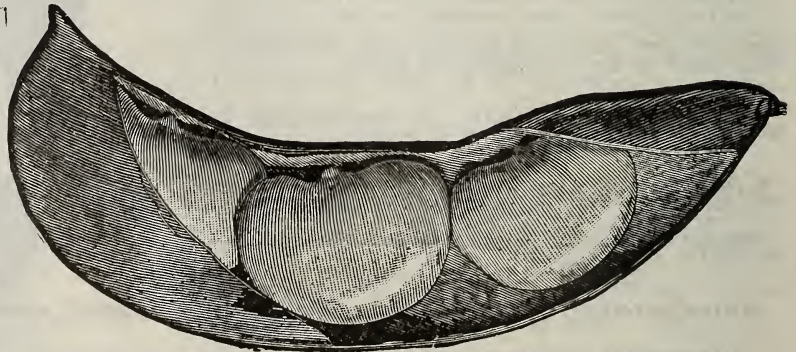
FORDHOOK BUSH LIMA. (See under Novelties.)

BURPEE'S BUSH LIMA.⁵¹

This is the bush form of the Large White Lima. The bush is about 20 inches high and up to two and a half feet in diameter, bearing from 50 to 100 large pods. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25.

HENDERSON'S BUSH LIMA.

This bean is about two weeks earlier than the pole Limas. It needs no stakes and produces an enormous crop of delicious Lima beans. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25.



BURPEE'S BUSH LIMA.

Beans—Continued.**Pole or Running Varieties.****Stangenbohnen.**

Postage 5 cents per pound in small lots and regular parcel post charges in quantities.

BURGER'S GREEN STRINGLESS. This bean has surpassed the old Kentucky Wonder, it being earlier and bearing for a longer time. The pods are stringless and up to eight inches long, dark green, very tender, and have a delicious flavor. The dry beans are white. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

KENTUCKY WONDER OR OLD HOMESTEAD. This has been for a long time the most popular bean. It is very vigorous, climbs well, and bears abundance of nearly round pods which are often ten inches long. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

WHITE CREASEBACK. Extremely early and matures all its pods at the same time. Vines are medium sized but wonderfully productive in good soil. The pods are quite round, quite fleshy, medium sized, silvery green, and are borne in clusters of four to twelve. Are excellent snap beans, fine shippers and are especially fine for baking. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

LAZY WIFE. So named because of the easy picking, and a very popular bean in some localities. Pods are broad, thick, very fleshy, entirely stringless and of a rich buttery flavor when cooked. The beans are white and make a good dry bean for winter use. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

CUT SHORT OR CORN HILL. The old standard for planting among corn. Pods are short, round and tender. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

WHITE DUTCH CASEKNIFE. Pods are large, flat and green; can be either snapped or shelled. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

HORTICULTURAL, OR SPECKLED CRANBERRY. A showy bean and matures in eighty days. Pods green, dashed with red, valued as a snap or for shelling. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

EARLY GOLDEN CLUSTER WAX. The only wax bean among the pole varieties. It bears from July until frost and the pods are six to eight inches long and come in clusters from three to six. The flavor is most excellent. Pkt. 5c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50



BURGER'S STRINGLESS.

Flowering Beans.

Pkt., 5c; lb., 30c; 2 lbs., 50c.

SCARLET RUNNER. Has a fine scarlet flower and is very desirable for covering trellises, old fences, etc. The green pods are edible.

TRI-COLOR RUNNER. Pink and white in the same blossom.

WHITE RUNNER. A pure white flower.

Pole Lima Beans.

LARGE WHITE LIMA OR BUTTER BEANS. The old favorite and of fine flavor.

Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

KING OF THE GARDEN LIMA. This is a decided improvement over the large White, being a strong grower, very productive and bearing large, well filled pods. The beans are usually shelled, of fine quality and excellent flavor. Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

SMALL CAROLINA, OR SIEVA LIMA. This is a small type of the pole limas. It matures quickly, produces immense crops, and makes an excellent bean for winter use.

Pkt. 5c; lb. 20c; 2 lbs. 30c; 10 lbs. \$1.25

The Barteldes Farm Guide and Barteldes Cook Book.

Two excellent books that should be in every farm house. One gives a lot of valuable information in regard to farm topics and the other in regard to cooking, etc.

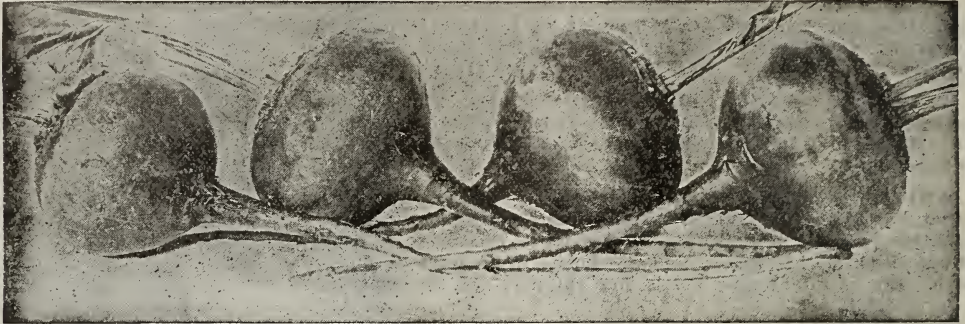
We give these valuable books free. See page 2.

Table Beets.

Rote Rüben.

Remolachas.

CULTURE. Beets require a deep, rich, mellow soil, and may be sown from early spring to commencement of summer. Drop about one inch deep in drills 12 to 18 inches apart. One ounce to 60 feet of drill; 6 to 8 pounds to the acre. If for sugar factory, sow from 15 to 20 pounds to the acre; the small beets contain proportionately more sugar than the larger ones. Hence the reason for sowing thickly.



CROSBY'S EARLY EGYPTIAN.

Early Model.

The earliest of any beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it cannot be beat. It is tender, sweet and juicy, retaining its crispness throughout the season. The foliage is of a very dark color, is very small, permitting close planting of beets. This is one of the best acquisitions of recent years.

Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. \$1.00

Barteldes' Early Blood Turnip.

This is a carefully selected strain of this Blood Turnip Beet. It is very early, deep blood red and almost round. It is smooth and an excellent forcing variety. Good for main, spring or summer crop, and is a fine keeper. It cooks sweet and crisp and is an excellent beet in every respect.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 30c

EARLY BLOOD RED TURNIP.

This is a turnip beet, and is the old standard among the early varieties. It is of dark red color and is perhaps the most popular of all beets.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EXTRA EARLY EGYPTIAN.

An extra early turnip-shaped variety; has small tops and grows quickly. The flesh is in alternate rings of white and red.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

DETROIT DARK RED.

A choice strain of dark red turnip beet of globular to oval shape with smooth roots and small tops. Skin is blood red, zoned with light shades, tender and sweet. Fine for market and canning.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

THE LENTZ.

As early as the Egyptian, flesh very tender and sweet at all times. Very productive, a good keeper and will produce crop in six weeks from time of planting.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

ECLIPSE.

This is as early as the Egyptian, but is more desirable owing to its globe shape, smoothness and regularity. It has a small firm top, is very sweet, fine and of dark red color.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

CROSBY'S EARLY EGYPTIAN.

One of the earliest and best on market. It is more globular than the Early Egyptian. Especially good for market gardeners.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EDMOND'S BLOOD TURNIP.

Handsome round shape, skin very deep, blood red color, flesh very dark and exceedingly sweet and tender. Very regular and of good size. Make excellent bunch beets.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

HALF LONG RED.

Larger than the turnip beets and makes a heavier yield.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

LONG BLOOD RED.

The old standard variety for table and cattle. It is the best drouth resister of all; color deep red, flesh very sweet. Grows entirely under the ground.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

SWISS CHARD OR FOLIAGE BEET.

This is a distinct vegetable from the common beet, much superior for greens, and is ready for use much earlier. When mature, the plant forms broad, flat and beautifully white and wax-like stems, which are very delicious when cooked as beets and asparagus tips, or pickled. We recommend this beet.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

If you buy in large quantities, write for our Market Gardener's Price List.

Sugar Beets and Stock Beets.

Runkel Rüben.

CULTURE. The soil for these should be plowed more deeply and the drills should be farther apart than for garden beets. Sow in April or beginning of May in drills from 2 to 3 feet apart, and when 4 to 5 inches high thin to 12 or 15 inches in the row. As soon as frost comes dig up the roots, cut top off and then pile 5 to 6 feet deep on a raised and sloping situation and cover at frost with straw or hay and one inch of earth. As it gets colder, increase to 5 or 6 inches of earth; by so doing all danger of heating is obviated, and the roots keep until next summer. Four or five pounds are sown to the acre. Sugar beets are also used for stock feeding, and while not as large as the Mangels, they have a higher percentage of sugar and therefore are of higher feeding value.

Remolachas Forrajetas.

Sugar Beets.

RED TOP SUGAR. Fine, sweet flesh and the best for cattle feeding.
Oz. 5c; ¼ lb. 15c; lb. 40c

LANE'S IMPERIAL SUGAR. Will yield almost as much as the best Mangel.
Oz. 5c; ¼ lb. 15c; lb. 40c

SILESIA SUGAR. The old well-known standard variety and a good beet for feeding.
Oz. 5c; ¼ lb. 15c; lb. 40c

VILMORIN'S IMPROVED SUGAR. This is one of the best for making sugar. The skin is a creamy color and flesh is white.
Oz. 5c; ¼ lb. 15c; lb. 40c

WHITE KLEIN WANZLEBEN SUGAR. The beet contains 15 to 16 per cent sugar, and yields, under an average condition, 16 tons to the acre. It has a long, slender root, and grows deeply sunk into the ground.
Oz. 5c; ¼ lb. 15c; lb. 40c

Stock Beets.

YELLOW GLOBE MANGEL. This beet is easily pulled and more delicate than the Long Red.
Oz. 5c; ¼ lb. 15c; lb. 40c

GOLDEN TANKARD. This is a yellow beet, the most prolific variety, and very nutritious. It is one of the most profitable varieties for stock feeding.
Oz. 5c; ¼ lb. 15c; lb. 40c

MAMMOTH LONG RED MANGEL. These roots attain an enormous size and it is a fine variety for feeding.
Oz. 5c; ¼ lb. 15c; lb. 40c

RED GLOBE MANGEL. This variety is especially adapted to shallow soils. It is a large, round beet, red-skinned and white fleshed. It is an excellent keeper.
Oz. 5c; ¼ lb. 15c; lb. 40c

GIANT HALF SUGAR MANGEL. This beet combines the large size of the Mangel with the great feeding value of the Sugar Beets. The flesh is white, crisp and very sweet, and the beet grows well above the ground. We recommend it especially.
Oz. 5c; ¼ lb. 15c; lb. 40c

SPECIAL PRICES. If beet seeds are to be sent by express or freight not prepaid, deduct 8 cents per pound from the above prices. In quantities we can furnish as below:
10-lb. lots at 30c per lb. not prepaid.
50-lb. lots at 25c per lb. not prepaid.

Prices on larger quantities will be furnished on request.

Broccoli.

Spargelkohl.

Colliflor de moradu.

This plant belongs to the family of "Brassica" and is cultivated like Cabbage, Cauliflower and the other members of that family. Sow early in the spring, then transplant and set out. It will form heads like Cauliflower, but it is more hardy and of a less delicate flavor. It is grown in cold localities to some extent, and also in the South for winter use.

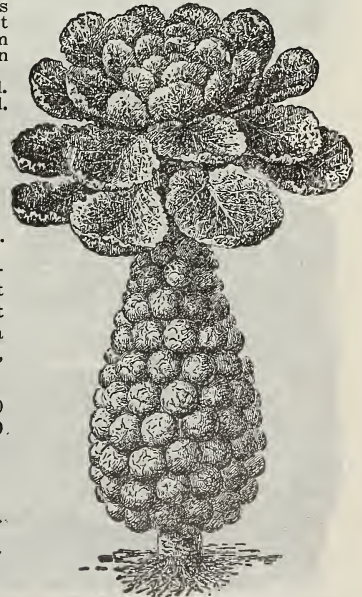
Purple Cape. Pkt. 5c; oz. 35c; ¼ lb. \$1.00
Large White Mammoth. Pkt. 5c; oz. 35c; ¼ lb. 1.00

Brussels Sprouts.

Rosenkohl.

Col de Bruselas.

This is another member of the Cabbage family. They form a straight stalk which bears on all sides a large number of miniature cabbages. These have a particularly fine flavor and are esteemed a delicacy by many. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.60



BRUSSELS SPROUTS.



MAMMOTH LONG RED MANGEL.



Cabbage.

Weisskraut.

CULTURE. For early cabbages sow the seed in a hot bed in March or April, covering the seed from $\frac{1}{4}$ to $\frac{1}{2}$ inch deep and when big enough transplant to another bed. As soon as the ground is in good condition transplant outside in rows 2 feet apart and 15 to 18 inches in a row. The soil should be mellow, rich and well drained. For late crops the seed can be sown in a cold frame, or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in 3 gallons of rain water sprinkled over the cabbage or cauliflower will destroy the green worm. The liquid being clear does not color the cauliflower or cabbage heads. Fine air-slacked lime or tobacco dust sifted on the young plants as soon as the fleas appear on the ground will prevent them from doing harm. One ounce of good seed will produce 2,000 plants. About 16,000 early or 8,000 late cabbage plants to one acre.

Col Repello.

Earliest Varieties.

See Copenhagen Market, Page 5.

TRUE JERSEY WAKEFIELD. This is a most remarkable variety, particularly adapted to the wants of market gardeners. It heads evenly from the latter part of June to the beginning of July. It is erect in growth and has cone-shaped heads.

Our stock is of the true Long Island type, and is sure to give satisfaction.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; lb. \$2.00



EARLY WINNINGSTADT. A well-known and popular early variety, but matures a little later than the Early Wakefield. The heads are large, solid and hard even in summer, decidedly conical, with bright glossy green leaves. This is a sure heading variety, valuable not only for early use, but also for winter cabbage. It is a favorite with the krautmakers.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

BARTELDES'

SURE HEADER WINNINGSTADT.

This is the well known Winningstadt improved by years of selection. Almost sure header, having produced 98 heads out of 100 plants. An excellent keeper. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb. 65c; lb. \$2.00.

EARLY YORK. This is one of the earliest varieties, but it is not a very large size, nor will it stand extreme summer heat.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

EXTRA EARLY EXPRESS. This variety produces fair sized heads in 80 to 85 days from time of sowing. The heads are not as large as the Etampes, but are matured several days earlier.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; lb. \$2.00



JERSEY WAKEFIELD

EXTRA EARLY ETAMPES. One of the very earliest and produces heads which are remarkably hard for a cabbage that ripens so early. The planter is always surprised at the extreme earliness of its maturity.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; lb. \$2.00

Second-Early or Round-Head Varieties.

THE GLORY CABBAGE. This cabbage was recently introduced from Holland. It combines earliness with good size, qualities which are both very desirable for market purposes. This is easily one of the best sellers on the market. Pkt. 5c; oz. 30c; $\frac{1}{4}$ lb. 85c.

ALLHEAD EARLY. This is the earliest cabbage of the large early sorts and cannot be recommended too highly. It is larger than other varieties of its class and grows remarkably uniform.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 65c; lb. \$2.00



ALLHEAD EARLY.



Cabbage—Continued.

FOTTLER'S BRUNSWICK.

This is a good second early variety.
Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

EARLY DWARF FLAT DUTCH.

A very popular variety because of its heat-resisting character. It never flaws under the most severe heat, and produces heads after the earliest varieties have disappeared.
Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

SUREHEAD. It is remarkable for its certainty to head and produces large, round, flattened heads of the Flat Dutch type.
Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

EARLY SPRING.

Its great value lies in its being a first early flat cabbage, a type much preferred over the pointed heads by many. It is of the "Allhead Early" type, resembling it in habit of growth, but smaller, and is nearly as early as the Wakefield. The heads have few outside leaves, and these are small and grow so close to the head that they can be planted very close together. It is round in shape, slightly flattened, very solid even before the cabbage attain their mature size.
Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

Main Crop or Winter Varieties.

COPENHAGEN MARKET.

MARIENDALER STONEHEAD.

See Novelties.

THE DANISH BALLHEAD. This variety of cabbage is grown exclusively for winter use by the Dutch gardeners, who brought it to perfection. The heads are perfectly round, extremely solid, fine grained, bear shipping well, and will keep far into the spring. It requires the full season to mature its heads alone.

We have long and short stem; state which one you want. Long stem does best in very rich soils, while short stem does best in moderate rich soils.
Pkt. 5c; oz. 30c; ¼ lb. 85c; lb. \$2.25

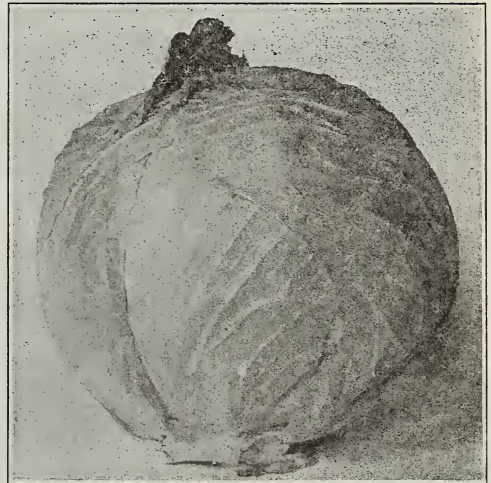
BARTEDES' SELECTED DANISH BALL HEAD.

This is without any doubt the finest white cabbage grown. It is an improved strain of the well-known Hollander Cabbage. Plants grow to a good size, are short stemmed, forming fine large, round heads of unusual solidity, almost like a stone, keeping in excellent condition as late as June.
Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$2.75

ST. LOUIS LATE MARKET. This variety is very popular with the krautmakers. The plant is very vigorous and hardy, the leaves are large and broad, the stem of moderate length, the head is large, white and solid and seldom bursts.
Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

SCOTT'S CROSS OR GREELEY MARKET CABBAGE.

This cabbage is one of the best for medium early crops. It originated near Greeley, Colo., several years ago and has been improved ever since so now it ranks among the best, if not the best. It is a cross between the Winningstadt and Flat Dutch, and possesses all the good qualities of both. It is medium early, making a medium to large sized head, well flavored. This plant is almost lice-proof and a sure header.
Pkt. 10c; oz. 60c; ¼ lb. \$2.00; lb. \$7.50



DANISH BALLHEAD.

Varieties.	Pkt.	Oz.	¼ Lb.	Lb.
Premium Flat Dutch. Large fall and winter variety, particularly adapted to Kansas.	5c	20c	60c	\$1.75
Late Large Drumhead. This Cabbage is of the same type as the preceding	5c	20c	50c	\$1.50
Marblehead Mammoth. It is indeed well named, as it is of true mammoth size.	5c	20c	60c	\$1.75

Red Cabbage.

Repollo Colorado. Rotkraut.

MAMMOTH RED ROCK.

This is by far the largest and surest heading red cabbage ever introduced. The plants are large with numerous spreading leaves. The large with numerous spreading leaves.
Pkt. 5c; oz. 20c; ¼ lb. 65c; lb. \$2.00

Savoy Cabbage.

Wirsing. Repollo de hojas crespas.

DRUMHEAD SAVOY.

An excellent winter and spring family cabbage, partaking partially of the size of the Drumhead and the curled leaves of the Savoy
Pkt. 5c; oz. 20c; ¼ lb. 65c; lb. \$2.00

Carrots.

Möhren.

CULTURE. Carrots delight in sandy loam deeply tilled. For early crops, sow in the spring as soon as the ground is in working order; for late crops, sow any time until the middle of June. Sow in rows and do not cover more than one-half inch deep. One ounce to 150 feet of drill; three pounds to the acre.

Table Use.

EXTRA EARLY SHORT FORCING. An excellent forcing variety; very tender, small tops, and of fine flavor. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY SCARLET HORN. A very early variety. Recommended for the market and home garden. Texture very fine and very delicate in flavor. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

OXHEART OR GUERANDE. The French Carrot is one of the most valuable varieties either for family use or for the market. It is an intermediate between the half long and the Horn types attaining a diameter of 3 to 4 inches at the neck. It is very productive, rich orange color and beautiful shape. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

CHANTENAY OR MODEL. A nice smooth carrot of perfect and uniform shape. A heavy yielder, a fine table quality, 5 to 6 inches long and easily dug. The flesh is of a deep yellow color, tender and of excellent flavor. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Cauliflower.

Blumenkohl.

Coliflor.

CULTURE. The same as for cabbage, except that it will pay to use extra manure and plenty of water for Cauliflower. If the soil is dry water frequently and if the plants have a heavy mulch of hay or straw, it would keep the soil moist, and the plants would not suffer from drouth. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out the same as Cabbage. One ounce of seed produces 1,500 plants; 15,000 plants will cover one acre.



EARLY DANISH SNOWBALL. This splendid Cauliflower is extremely early, heads with certainty and these heads are of high quality. The plant is dwarf, outer leaves are erect, while the inner leaves lap over the head, protecting it from the sun. It is the finest Cauliflower on the market, and we recommend it to the Market Gardeners especially. Pkt. 15c; ¼ oz. 75c; oz. \$2.00; ¼ lb. \$5.00



VEITCH'S AUTUMN GIANT. A distinct and valuable late variety. The heads are very large, beautifully white, firm and compact, and being well protected by foliage, remain fit for use for a long time. The plants should be started and transplanted early in the season, to insure their full development. Pkt. 5c; ¼ oz. 25c; oz. 80c; ¼ lb. \$2.25

EARLY PARIS. An excellent French variety, and very popular among the early sorts in the Paris markets. Heads are large, white, compact, solid, of excellent flavor, tender and delicious. Leaves large, stalk short. Pkt. 5c; ¼ oz. 25c; oz. 80c; ¼ lb. \$2.25

Zanikorlas.



EARLY SCARLET HORN

Barteldes Late Snowball or Dry Weather.

This splendid Cauliflower, introduced by us in 1907 to Western Planters has proven to be a perfect "success." Samples weighing 8 and 11 pounds have been brought to us with the statement that they average 7 pounds in large fields planted with this stock. We feel satisfied that it answers the purpose we have been seeking; that is, to furnish a Cauliflower well adapted to our Western country, for use in summer. Is about 2 weeks later than Danish Snowball. It has a larger head, solid, white and very fine grained. The leaves are large and have a tendency to fold over the head to protect it from the scorching sun of our summer months. It also stands the drouth better than any other Cauliflower grown. Pkt. 15c; ¼ oz. 75c; oz. \$2.00; ¼ lb. \$5.00



EXTRA EARLY DWARF ERFURT, SELECTED. This is the choicest strain of the popular Erfurt type and noted for its extreme reliability in heading. Plants are very dwarf with solid, pure white heads of excellent quality. When planted in rich soil early in the spring heads 8 to 10 inches in diameter, can be marketed early in July. Pkt. 25c; ¼ oz. 75c; oz. \$2.00; ¼ lb. \$5.00

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Carrots—Continued.

DANVERS HALF LONG.

Admirable in color, fixed in habit, a wonderful producer, the best of all for the stock breeder, and valuable to the market gardener. With this variety the planters secure the largest return to the acre, with the least difficulty of harvesting. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

HALF LONG SCARLET NANTES.

Foliage finely cut, dark and of medium height, roots slender, smooth, and of a bright orange color, flesh orange becoming yellow towards the center, but with no distinct core. Quality very fine. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Stock-Feeding.

Para Forage.

Für Futterzwecke.

IMPROVED LONG ORANGE. The old standby for both stock feeding and table use, either summer or winter. Fed to milch cows, it increases the flow of rich milk and gives to the butter a fine flavor and a beautiful golden color. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

LARGE WHITE BELGIAN. Grows one-third out of the ground. Root pure white, green above the ground and has a small top. It will grow to a very rich large size on soil, and is very easily gathered. Flesh rather coarse and used exclusively for stock feeding purposes. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

LARGE YELLOW BELGIAN. Practically the same as the above, except that the color of the flesh is yellow. An excellent keeper. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

Celery.

Apio.

Bleich-Sellerie.



CULTURE. For early celery sow in March or February, in hot beds, in drills 4 to 6 inches apart and cover about ¼ inch deep. When fairly out of seed leaf transplant to another bed, thin out to 2 or 3 inches in the row, and leave growing until needed to plant outside. In April plant the field in rows 18 to 20 inches apart, and set six inches in the row. In planting press the ground around the plants, but do not let any earth get into the heart. The soil should be very rich and the plants should be earthed up several times during their growth. Celery needs more water than any other garden crops, and is liable to get soft if not watered sufficiently.

For winter use sow the seed in the latter part of April, or beginning of May, in beds, and transplant in the fields in July. If the roots are to be dug up and put in trenches to bleach, allow two feet between the rows, or if they are to be dug up and put in trenches to bleach, allow in a high, well drained place, one foot wide, and of a depth of a few inches less than the height of the celery. Set your plants closely in it and cover gradually with straw or hay and earth as the weather gets colder. The top of the trench should be sloping so as to allow the water to run off. One ounce of seed produces 2,500 plants and it takes about 42,000 plants to set one acre if the rows are 2 feet apart.

GOLDEN SELF BLANCHING. This is a beautiful plant of close habit, compact growth, and has straight and vigorous stalks. The ribs are perfectly solid, crisp and brittle. Its delicate flavor is surpassed by no other variety and moreover it has the decided merit of being self-blanching to a very remarkable degree. Our stock of this seed is selected with special care in France.

AMERICAN. Pkt. 5c; ½ oz. 20c; oz. 35c; ¼ lb. \$1.50; lb. \$4.00.

FRENCH. Pkt. 5c; ½ oz. 60c; oz. \$1.10; ¼ lb. \$4.00.

WHITE PLUME. This celery is valued because the stalks and portions of the inner leaves and heart are white; by simply tying up the stalks and drawing up the soil with the hoe, the work of blanching is completed. It is ornamental, tender, crisp and of good flavor and very early.

DWARF GOLDEN HEART. Very popular and distinct variety. In habit of growth it resembles Half Dwarf, except when blanched the heart, which is large and full is of a waxy golden yellow. It is entirely solid, of excellent flavor, and keeps well during the winter.

BOSTON MARKET. The most popular variety in the market of Boston. It forms a cluster of heads instead of single one and is exceptionally tender and crisp. The best variety for light soils. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50

GIANT PASCAL. This is a green leaved variety. It bleaches very quickly after earthing up and is a beautiful yellowish white color, very solid and crisp, and of a sweet flavor which is not equalled by any other variety. The stalks grow broad and thick, a single plant making a large bunch. Under high cultivation this variety will give best satisfaction. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75

AMERICAN. Pkt. 5c; ½ oz. 20c; oz. 35c; ¼ lb. \$1.50; lb. \$4.00.

FRENCH. Pkt. 5c; ½ oz. 60c; oz. \$1.10; ¼ lb. \$4.00.



Celery—Continued.

HALF DWARF. When blanched it is of a yellowish white, making it very ornamental for the table; it is entirely solid, possessing the nutty flavor peculiar to the dwarf kinds, while it has much more vigor of growth, surpassing most of the large growing sorts in height of bunch grown under the same conditions.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50

LARGE WHITE SOLID. Of tall growing habit and very handsome in appearance. A splendid pure white variety.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50

Celeriac or Turnip-Rooted Celery.

Grown exclusively for its roots, which are turnip shaped, very smooth, tender and marrow-like. The roots are cooked and sliced and eaten with vinegar. They make an excellent salad. Are used for seasoning meats and flavoring soups.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c

CELERY FOR PROFIT. By Griener. Illustrated. Price 50c.

CELERY PLANTS. We can supply them during June and July. If interested, write us. See page 50.



CELERICAC

Chicory.

Cichorienwurzeln.

Achicoria.

LARGE ROOTED OR COFFEE.

A hardy plant introduced from and much used in Europe as a substitute for coffee; large quantities of prepared roots are exported to this country. May be used to good advantage and pay large profit, and its culture is simple. In the fall the roots require to be taken up and cut into small pieces and put where they will dry, requiring the same treatment used for drying apples. When required for use they should be roasted and ground like coffee. Requires similar treatment as carrots.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. \$1.00

WITLOFF—See Novelties.

Collards.

GEORGIA SOUTHERN OR CREOLE.

This is the variety so extensively used in the South, where it furnishes an abundance of food for both man and beast. Forms a large, loose, open head, or a mass of leaves on a tall stem. Freezing improves the quality.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c



WATER CRESS

Chives.

Schnittlauch.

Ceholettas.

The Chives are small and not very important members of the onion tribe, quite hardy everywhere. The leaves are slender and appear very early in the spring, and may be cut several times during the season. They are propagated by seeds and by roots. The Chives make the very best border for beds in the vegetable garden, and are not only useful, but bearing pink flowers and a mass of golden leaves, are ornamental and are equal to the onion for flavoring soups and salads.

Pkt. 10c; oz. 60c; Roots 20c per bunch, 3 for 55c postpaid.

Corn Salad.

Stechsalas.

Macha o Valerinaila

BROAD LEAVED.

Used as a small salad throughout the winter and spring. Sow thickly in drills, cover slightly at the beginning of autumn and sprinkle with straw on the approach of severe winter weather, or sow in a cold frame, covered in winter as may be convenient—this is accessible even when the deep snow prevails.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c

Cress.

Kresse.

Berro.

Used as a small salad. Sow very thickly in shallow drills; cover on a smooth surface at short intervals throughout the season.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 50c

Water Cress.

Brunnen Kresse.

Berro de Fuente.

Is quite distinct from garden cress, and thrives only when its roots and stems are submerged in water. It is one of the most delicious of small salads and should be planted wherever a suitable place can be found.

Pkt. 5c; oz. 30c; $\frac{1}{4}$ lb. \$1.00

Pop Corn.

WHITE PEARL.

A common variety having smooth kernels.

WHITE RICE.

A very handsome variety; kernels long, pointed, resembling rice. Very prolific, and fine for parching. Does not pop as large as Queen's Golden, but is more tender and better flavor.

QUEEN'S GOLDEN.

Produces ears in great abundance on stalks nearly six feet high. It pops perfectly white. A single kernel will expand to nearly an inch in diameter.

Prices for all varieties of pop corn.

Pkt. 5c; lb. 10c

Postage 5c per lb. extra.

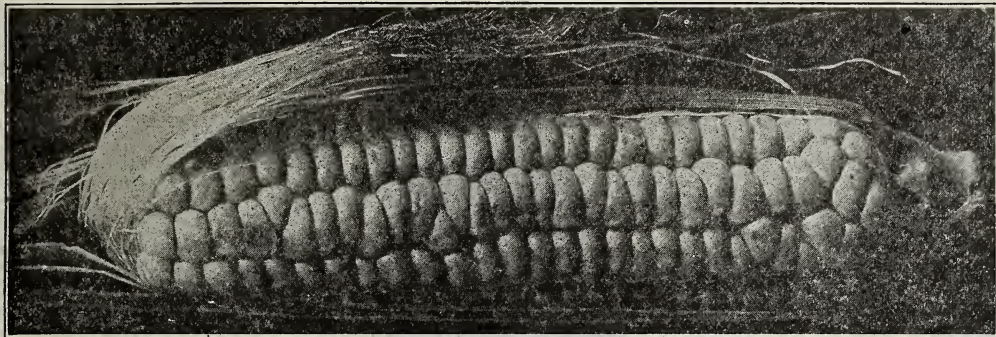
Sweet Corn.

Spelse Mais.

Mais Dulce.

Postage of 5 cents per pound must be added in ordering corn sent by mail.—One pound is equal to over three-fourths quart.

CULTURE. All varieties of sweet corn may be sown either in rows four feet apart and the seeds planted about eight inches in the row, or planted in hills at a distance of three or four feet each way, according to the variety grown or the richness of the soil in which it is planted. Sweet Corn should not be planted deeper than one to one and a half inches, as it is liable to rot in the ground. Hoe often, drawing the earth against the stems and breaking off the side shoots. One pound to 275 hills. About one-fourth bushel will plant one acre in drills.



NEW GOLDEN BANTAM

GOLDEN BANTAM is the most tender, sweetest, richest, and best evergreen Sweet Corn in existence. It produces strong, sturdy stalks, growing about four feet high. Is extremely hardy and can be grown from the Gulf to the Great Lakes. Each stalk produces three to four fine ears 5 to 6 inches long, having eight rows of sweet kernels. Golden Bantam is the quickest to mature and will give better and quicker results than any other sweet corn we know of. We have found it remarkably free of worms. Don't fail to have some of this splendid corn in your garden next year. By mail: Pkt. 5c; lb. 30c; 2 lb. 45c. By express not prepaid: Lb. 20c; 2 lbs. 30c; 10 lbs. \$1.10.

HOWLING MOB. One of the earliest large varieties, being only 4 to 5 days later than White Cob Cory. The ears are 7 to 9 inches long, 12 and 14-rowed. It generally produces 2 fine ears to a stalk. Pkt. 5c; ½ lb. 10c; lb. 15c; 10 lbs. \$1.00

PEEP O'DAY. Is not only one of the earliest Sweet Corn, but is very sweet and immensely productive, stalks producing from 2 to 5 large size ears and being dwarf, about 4 feet in height, admits a close planting. Pkt. 5c; ½ lb. 10c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00

EGYPTIAN SUGAR. It is of vigorous habit, late, good for canning. Pkt. 5c; ½ lb. 10c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00

EXTRA EARLY ADAMS. This is not a true sweet corn, but on account of its hardness and its round, hard grains it can be planted much earlier than the wrinkled sort sugar corn. The ears are well filled with tender white kernels. It is usually ready a week earlier than the Cory. Pkt. 5c; lb. 10c; 2 lbs. 15c; 10 lbs. 70c

WHITE MEXICAN. This new variety of recent introduction is 4 to 5 days earlier than the White Cob Cory and has all the delicious sweetness of Black Mexican. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00

MAMMOTH WHITE CORY. The large extra early Sweet Corn. The ears are 12-rowed, white-cobbed, covered with very large white grains of good quality, and very much larger than the old Cory. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

WHITE COB CORY. Selected for white cob and white kernel from the original and earliest. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

EARLY MINNESOTA. This is among the earliest of the sugar varieties, and is much esteemed, not only because it matures earlier, but because of its excellent qualities as well. Ears rather small, long and pointed. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

PERRY'S HYBRID. A very fine variety, fully as early as the Minnesota, and having much larger ears. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

CROSBY'S EARLY TWELVE ROWED. A most excellent variety and remarkably early. Ears of medium length, sweet, rich, and delicate. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

EARLY EVERGREEN. Like Stowell's Evergreen, only ten days earlier. Ears large, about 18 inches long, 12 to 16 rowed, and having the identical flavor of the famous Stowell's Evergreen. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

BLACK MEXICAN. The sweetest and most desirable for family use. When dry the kernels are black. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

STOWELL'S EVERGREEN. This variety is more largely planted than any other, and is the general favorite with canners and market gardeners for late use. It is very productive, the ears are of large size, grains deep, exceptionally tender and sugary and remain for a long time in an edible condition. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. 80c

COUNTRY GENTLEMAN. The ears are not only of good size, but are produced in great abundance, one stalk frequently bearing four good ears while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly whiteness. Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00

Cucumbers.

Gurken.

CULTURE. For early, sow seed in hotbed in small pots and plant out when danger of frosts is over. They can be marketed with a gain of six or seven weeks over those sown in the open ground. For general crops drop in hills four to six feet apart, as soon as the weather is warm ten to twelve seeds in a hill, cover half an inch deep and pat it down with the hoe. Hoe often and when out of danger of insects, thin out to three or four plants to a hill. Middle of June to July 1st is the right time to sow for pickles. Pick fruits as soon as big enough to use or their productiveness will be injured. One ounce will plant about 50 hills. Two pounds to one acre.

BUG DEATH kills the bugs.

Pepias.

BARTELDES' EXTRA SELECT WHITE SPINE CUCUMBER.

Early, handsome, of very dark green color, excellent for slicing and hardy and productive. Fruits uniform and averaging six to eight inches. Color is retained very long and is an excellent shipping variety.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

DAVIS PERFECT. This is one of the very best cucumbers grown, both for forcing and for out of doors. It is slim and symmetrical in shape and from 9 to 12 inches long and of a dark glossy, green color changing to white, without a streak of yellow, only when nearly ripe.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

IMPROVED LONG GREEN. This is unquestionably the most popular for general use. When matured is 9 to 12 inches long. Flesh is very solid, crisp and of delicate flavor. The skin is dark green and retains its color for a remarkably long time.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY FRAME. Popular both for table and pickling purposes. Growth vigorous, vines very productive, fruit medium size.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EVERBEARING. This variety is of small size; very early, enormously productive, and valuable as a green pickle. Its peculiar merit however, is that the vines continue to flower and produce fruit until killed by frost, whether the cucumbers are picked off or not.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

COOL AND CRISP. A popular extremely early variety of the White Spine type. Very prolific and produces large numbers of medium sized cucumbers, excellent for table use. The fruit is 6 to 8 inches long, distinctly tapering, with a dark skin thickly set with small knots.

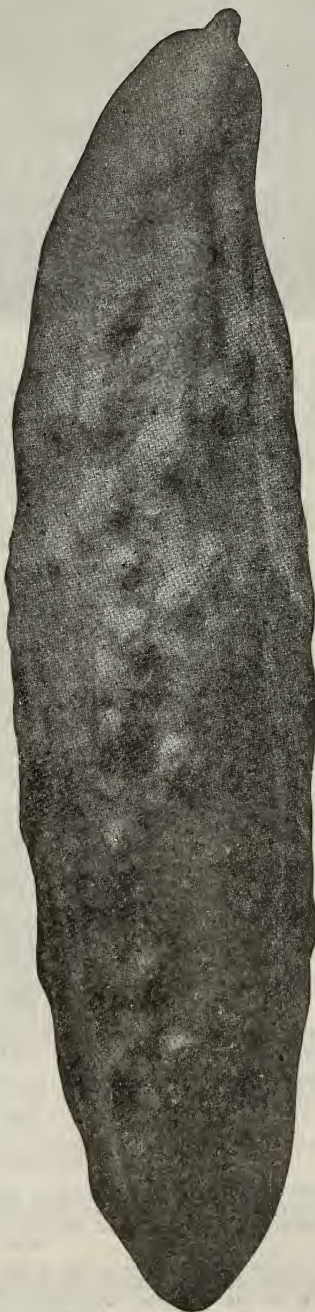
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY WHITE SPINE. Vines vigorous, bearing early and abundantly. Fruit uniformly straight and handsome, dark green, with a few white spines. Flesh tender and of excellent flavor. Used extensively for forcing under glass.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EXTRA LONG WHITE SPINE. A selection of the White Spine. Is very uniform in size and exceedingly early, at the same time makes a long growth—10 to 12 inches.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c



COOL AND CRISP.

KLONDIKE. Medium early, of the white spine type. Skin very dark. Fruits large and attractive.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90

BARTELDES' SELECT PICKLE

An improved strain of Boston Pickle. More symmetrical, holds its color longer and immensely productive.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90

EARLY RUSSIAN. One of the earliest in cultivation, resemble the early frame, but is smaller and shorter.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

EARLY GREEN CLUSTER. A very popular early cucumber producing its fruit in small clusters near the root of the plant. Average length is about 5 inches. Skin prickly, flesh white, seedy tender and well flavored.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

ARLINGTON WHITE SPINE This is the strain so popular around Chicago for growing under glass.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

CHICAGO OR WESTERFIELD PICKLING. Very popular with Chicago market gardeners.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

SHORT PROLIFIC. A very short variety of the "Frame" type. It is an abundant bearer and is highly recommended for pickles, for which it is used extensively in New York State.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

BOSTON PICKLING. The fruit abundantly borne, averages 4 to 5 inches in length and is of excellent quality.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75

PARISIAN PICKLING. A decidedly distinct variety used mostly for making French pickles.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

JAPANESE CLIMBING. While all cucumbers are running vines this variety is much more so than others. It climbs quickly on poles or trellises and is entirely distinct. The quality is splendid and well adapted for pickling and salads. The greatest advantage of having a cucumber trained on a pole fence is evident.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00.

WEST INDIA GHERKIN. The fruit is very small, almost round and closely covered with spines.

Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

Endive.

Endivien. Escaroly & Endibia.

Culture the same as lettuce. A desirable salad. When bleached by exclusion of the sun, gather all the leaves and tie them for a couple of days. Open after a rain to give them a chance to dry out, as otherwise the leaves begin to rot. The inside will turn into a beautiful yellowish green, making the plant very attractive for salads and garnishing.

Varieties.	Pkt.	Oz.	¼ lb.	Lb.
Green Curled, the hardy variety.....	5c	15c	40c	\$1.25
Broad Leaved Batavian very thick leaved.....	5c	15c	40c	1.25

Egg Plant.

Eierpflanze. Berenjena.

CULTURE. Sow in hot beds very early in the spring; thin them out as soon as big enough to be handled to 3 or 4 inches each way, and transplant to 2 or 3 feet apart in very rich warm ground. Do not plant them outside till nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take 2 or 3 weeks before they get over it. Hoe often and hill up gradually till they blossom. One ounce to 1,500 plants.



NEW YORK IMPROVED LARGE PURPLE SPINELESS.

This variety has about superseded all others both for market and home garden; a favorite everywhere. Our stock is extra selected direct from the best growers in New Jersey.

Pkt. 5c; ¼ oz. 15c; oz. 30c; ¼ lb. \$1.00

EARLY LONG PURPLE.

This is the earliest variety; very hardy and productive; fruit long and of superior quality.

Pkt. 5c; ¼ oz. 10c; oz. 25c; ¼ lb. 75c

BLACK BEAUTY—See Novelties.

Garlic.

Knoblauch. Ajo.

The garlic is the most pungent of all the onion family. It is much used in the south of Europe. The root, or bulb, is composed of many small bulbs called "cloves," which are planted in the spring 6 to 8 inches apart, and in August the bulbs are ready to gather. Write for prices on large lots.

Lb. 15c

Horse Radish.

Meerrettig. Rabano Rústico.

Horse radish produces no seed, but is grown from pieces of the root.

CULTURE. Mark off rows 2½ feet apart in rich moist, well prepared ground, and set the pieces of roots 18 inches apart in rows, vertically, the small end down. Cultivate thoroughly until the tops cover the ground, when their shade will keep down the weeds.

See page 10

Small roots 20c per dozen; 85c per 100, post-paid. If wanted in quantity, ask for special prices.

Kale or Borecole.

Krauskohl oder Blatterkohl. Col rizida.

DWARF GREEN GERMAN.

Sow in the spring for "sprouts" or "greens." Hardy prolific, flavor similar to cabbage; desirable in every garden. Pkt. 5c; oz. 10c; ¼ lb. 25c

DWARF PURPLE GERMAN.

A variety of the preceding, and identical with it, except in color, which is a beautiful deep purple. Pkt. 5c; oz. 10c; ¼ lb. 25c

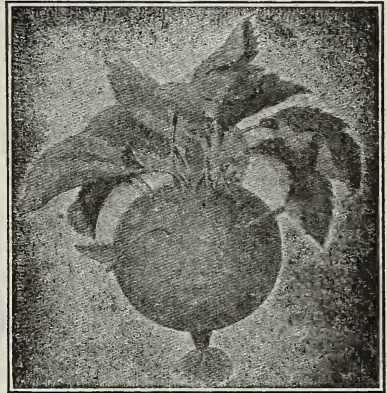
TALL GREEN CURLED OR SCOTCH.

This is one of the most popular varieties. It is very hardy and is much improved by frost. Two feet high. Pkt. 5c; oz. 10c; ¼ lb. 25c

Kohl-Rabi.

CULTURE.

Sow in the spring in rows 38 inches afterwards thin out to 8 or 10 inches in the row The edible part is a turnip shaped bulb, formed by the enlargement of the stem. When used for the table this should be cut when quite small as it is the



very tender and delicate; but if allowed to reach its full size it becomes tough and stringy. One ounce will produce 2,000 plants.

Varieties.	Pkt.	Oz.	¼ lb
Early White Vienna. The earliest and best for forcing.....	5c	20c	50c
Early Purple Vienna. Both Vienna Kohl-rabis are very tender and excellent for table use.....	5c	20c	50c
White Giant. A good sort of Summer and Autumn.....	5c	10c	30c
Purple Giant. Differs from the preceding in color only.....	5c	10c	30c

Leek.

Porree oder Lauch. Puerro.

CULTURE. A hardy species of onion, sown in drills or broadcast. When 6 inches high transplant into rows a foot apart, setting the plants 4 or 5 inches deep and about 6 inches apart in the row. Used mostly in soups and stews. One ounce to 1,000 plants.

LARGE LONDON OR SCOTCH FLAG.

This leek, aside from being valuable for soups and salads, when blanched, makes an excellent dish if sliced and cooked.

Pkt. 5c; oz. 15c; ¼ lb. 30; lb. \$1.00

Lettuces.

Salat

Lechuga



BIG BOSTON LETTUCE

CULTURE. Lettuce is grown under glass during the winter months and brings a fair profit. For general crops sow as soon as the ground is open, in drills fifteen to eighteen inches apart, and thin out to six or eight inches in the rows. As they do best when growing quickly, the soil should be rich and well worked. The seed may be sown every two weeks. If wanted as a cut salad, sow thickly in rows, or broadcast, and cut when needed. One ounce to 80 ft. drill; 4 lbs. to an acre. One ounce to 3,000 plants.

Early and Forcing Varieties.

BIG BOSTON. This variety resembles the well known Boston Market but produces heads almost double the size and matures a week later. Endures hot weather exceedingly well. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

WHITE SEEDED TENNIS BALL. One of the best varieties of headed cabbage lettuce for growing under glass. Very hardy, with thick, crisp, and tender leaves. Forms a compact head under glass, but unless planted very early is apt to be loose in the open air. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

DENVER MARKET FORCING. A stock selected expressly for growing under glass. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

GRAND RAPIDS. For greenhouse forcing this variety has few equals. It is of quick growth, little liable to rot, and can stand some days after being cut. The plant is upright and forms a loose head or cluster of large yellowish green leaves which are slightly crimped, blistered and rather thin. Is a good shipper. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

MAY KING. The best Butterhead lettuce for forcing, as well as early spring planting in the open ground. It is extremely hardy and therefore can be planted very early in the spring. It makes a quick growth, forming when mature, attractive heads measuring 10 to 20 inches across. The outside leaves are tightly folded, making the plant practically all head. It has a rich buttery flavor which is delicious. We recommend it particularly to Market Gardeners, as the tightly folded heads carry well, and will out-sell any other.

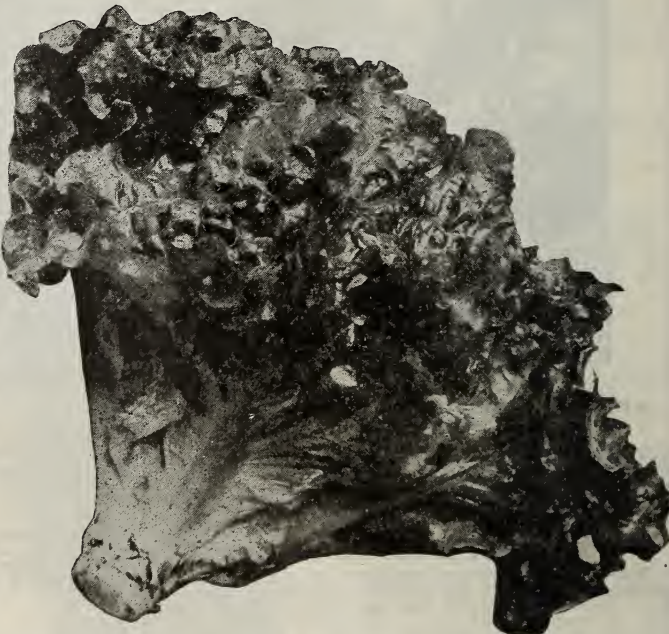
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY OHIO — SELECTED. An excellent Head Lettuce for forcing or outdoors. The leaves are light green, blistered, very crisp and tender and of delicious flavor.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

BARTELDES' "FRENCH FORCING." It is very early and sufficiently curly to be attractive, yet makes a reasonably solid head with scarcely any outside leaves. Its solid, upright shape allows of close planting, and less likely of rotting on lower leaves.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00



SIMPSON LETTUCE

Loose-Head or Cutting Varieties.

Varieties.	Pkt.	Oz.	¼ lb.	Lb.
Black Seeded Simpson. Good for forcing as well as outside culture.....	5c	10c	25c	75c
Early Curled Simpson. Highly recommended for general culture.....	5c	10c	25c	75c
Early Curled Silesian. The old favorite. Golden leaves with finely curled edges.....	5c	10c	25c	75c
Early Prizehead. Good variety, bright green, tinged with brownish red..	5c	10c	25c	75c

Barteldes' Denver Market.

It is an early variety of head lettuce either for forcing or open ground. It forms large solid heads of a good light green color and is very slow to seed. The leaves are beautifully marked and blistered, very crisp and tender and of excellent flavor. By these blistered leaves it distinguishes itself from any other kind of head lettuce now grown. Buy from us and get the true stock.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Hanson.

The heads are of a very large size, deliciously sweet, tender and crisp, even to the outer leaves; heads weigh 2½ to 3 pounds and measure 1½ feet in diameter. Color green outside and white within; free from any bitter, unpleasant taste. Not recommended for forcing, but has few superiors for family use.



HANSON

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY CABBAGE OR DUTCH BUTTERHEAD. Produces the greenish white, large heads of extra quality; remarkably tender and crisp, sure to head, of quick growth. It is one of the best for forcing and also for summer use, as it is slow to shoot seeds and resists heat well.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Lettuce—Iceberg

This remarkable sort belongs to the "Crisp Head Cabbage Lettuces" and is a decided acquisition. It forms a large solid head, the only outside leaves being of a light green color, while the inside is being bleached and is almost white. It is quite as well adapted for planting in the summer as in the spring, as the hottest summer weather cannot cause the leaves to open outward and expose the heart. The usual solidity of heads makes it, in our opinion, the ideal summer lettuce, and we strongly recommend our customers to give this splendid variety a trial.

Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

All Seasons.

All Seasons Lettuce is a distinct black seeded variety forming splendid solid heads of a light silvery green color. These heads are large and will "stand" longer before going to seed than those of any other Butterhead variety. The leaves are of a rich yellow color, crisp, tender, and of mild flavor.

Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c

Silver Ball.

This lettuce produces a beautiful head, very firm, solid and compact, with handsomely curled leaves.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c.

California Cream Butter.

Heads large, round and of a beautiful appearance. The outer leaves are glossy green, masked with small brown spots; the inner leaves are of a rich color. Medium early, and makes a good sort for summer use. Quality is very good.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c.

Cos or Celery Lettuce.

The Cos Lettuce is distinct from the preceding sorts, in having long, narrow, spoon-shaped leaves, which usually fold in to loose sugar-loaf shaped



CALIFORNIA CREAM BUTTER

heads, which blanch better by having the outer leaves drawn about them and tied. On account of their exceeding crispness, tenderness, and delicate flavor they are becoming more and more popular in this country.

Paris White Cos.

This is an excellent variety, although it is not quite as early as the "Express" Cos. It forms large, light green plants, well folded and quite solid. The interior is well blanched, and of a crisp, fine flavor, although the flavor is somewhat stronger than that of the preceding sort.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

Musk Melons.

Zucker Melonen.

Melon almizelena o centalu.

CULTURE. The soil for Musk Melons must be light, rich and sandy, for if grown on a heavy soil the quality will be poor, and they will not be so early. When there is no danger of frost drop 8 to 10 seeds in a hill 6 feet apart, each way, covering about three-fourths inch deep. As soon as a plant commences to run, thin out to 3 best plants in a hill and cultivate until the vines cover the ground. If slow to fruit, pinch off the ends of the growing shoots. Ash or air-slacked lime sifted on the young plants, while the dew is on is good to keep insects out. One ounce will plant about sixty hills, and it takes 3 pounds to one acre.

Deduct 15c per pound when 5 pounds or more of one variety are ordered not prepaid.

Green
Fleshed



THE ROCKY FORD

This melon, grown first in Rocky Ford, Colorado, has in a few years acquired a national reputation. It is of the Netted Gem type, oval in shape, averaging from 4½ to 5 inches in length. It is a most delicious flavor, is very fine and smooth grained, has flesh of light green color throughout when ripe. Our seed comes from Rocky Ford where this melon is raised so extensively and from where carloads upon carloads are shipped out every season.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c

BARTELDES' SELECT STRAIN ROCKY FORD CANTALOUPE. An improved strain growing more vigorously, ripening more evenly and yielding more than the common strain. A good acquisition among melons.

EDEN GEM RUST RESISTING. This new strain of Cantaloupe is the product of several years' careful selection from the strongest and most vigorously growing plants. It is not quite as early as Barteldes' Select Rocky Ford, but will yield more.

In comparing the vines and fruits of the common strain with this new strain we found that the melons, hidden under a healthy growth of vines, were larger, more solidly netted with thick, firm flesh, and small seed cavity completely filled with seeds. On the rusted hills, where leaves were very few, the small melons were prematurely matured, the flesh watery and thin and seed cavity open.

Pkt. 5c; oz. 20c; ¼ lb. 45c; lb. \$1.50, 4 lbs. \$5.50

NETTED GEM. Practically the same as the "Rocky Ford." It has become one of the most popular of small, or basket melons. The description of the Rocky Ford is also to be applied to this variety. We offer an exceptionally fine stock.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

CASABA, OR LARGE PERSIAN. Long, oval shaped, skin very thin and delicate; flesh extremely tender, rich and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

THE HACKENSACK OR TURK'S CAP. The most popular variety of musk melon grown for market by gardeners in the vicinity of New York. It attains a large size, is round in shape, flattened at the ends; it is of most delicate flavor and wonderfully productive.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EXTRA EARLY HACKENSACK. By careful selection and improvement carried on for some years this strain has been developed so that it produces melons with all the good qualities of the well known Hackensack Melon, but at least ten days earlier.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

NETTED NUTMEG. We consider this the very best variety in cultivation. Vines vigorous, hardy, productive, fruit round, slightly flattened at both ends, ribbed, covered with coarse netting; flesh very thick, green and of the highest flavor.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

MONTREAL MARKET. This variety is nearly round, flattened at the ends, and very regularly ribbed; skin green, deeply netted; flesh remarkably thick, light green, melting, and of a delicious flavor. They are very regular in shape and uniformly grow to a very large size.

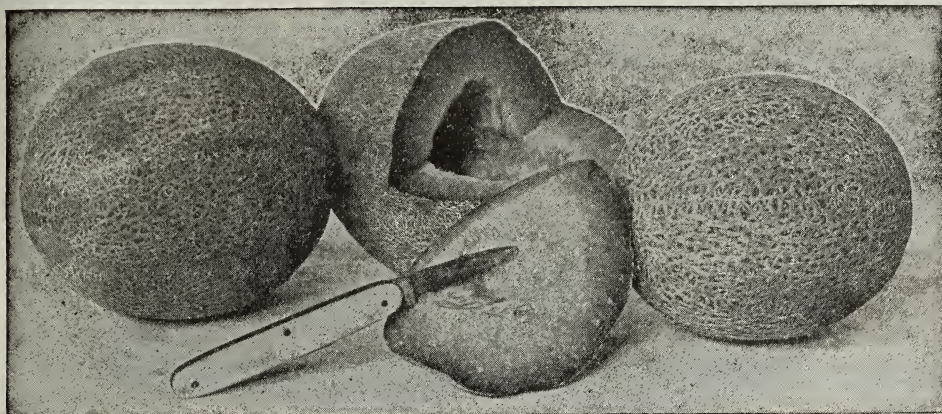
Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EXTRA EARLY CITRON. Earlier than any other cantaloupe, large, showy, and of fine flavor. This variety will also be found profitable by all market gardeners, and desirable also in the private garden until late varieties become fit for use.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

Musk Melons—Continued.

Yellow-Fleshed Varieties.



NEW MUSK MELON, BURRELL'S GEM.

It was hard to beat the Rocky Ford, and yet it has been done. The new variety has a salmon flesh of unusual thickness and flavor that can hardly be surpassed. The flesh is $1\frac{1}{2}$ to 2 inches thick, the rind is heavily netted, slightly ribbed, and very thin. The melons grow to an average size of six inches in length and $4\frac{1}{2}$ inches in diameter, weigh about 2 pounds apiece.

They are ideal shipping melons, and, notwithstanding the thin rind, have stood shipment from Colorado to New York in perfection. The Burrell Gem has brought more money in the open market than any other variety. A crate containing a dozen melons sold for one dollar in carload lots, and frequently a dozen melons are picked from one hill.

We recommend this new melon very highly and encourage extensive planting.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 30c; lb. 80c

HOODOO MELON. See Novelties.

EMERALD GEM. This is a variety of excellent quality; it is of medium size. The skin is, while ribbed, perfectly smooth and of deep emerald green color, and ripens to the green rind. It is peculiarly crystalline in appearance, and so very juicy and rich that it almost drops to pieces when dipped out with a spoon. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

OSAGE OR MILLER'S CREAM. The great popularity which this melon has attained is due mainly to its luscious spicy flavor and its perfect shipping qualities. The skin is very thin, and of a dark green color and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

PAUL ROSE. A cross of Osage and Netted Gem, and best of the salmon, or red-fleshed sorts. Flesh unusually thick, firm and delicious; well netted and fine for market.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

KHIVA OR WINTER MUSK MELON. Musk melon for Christmas dinner. You can have such and from your own garden, if you plant Khiva. It is the most delicately flavored winter keeping melon we have ever eaten. The skin is firm, with a grayish color, green slightly mottled. Is of egg shape and weighs 12 to 30 pounds. Not real delicious until November and later. They keep nicely until January.

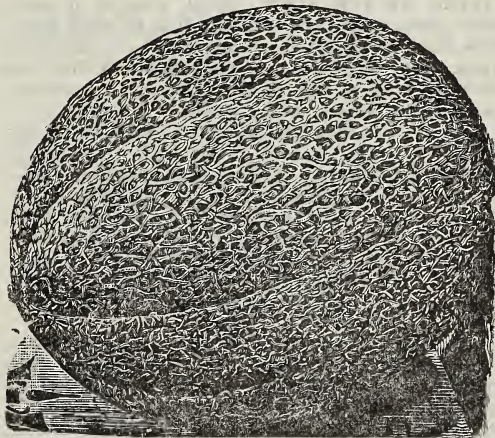
Pkt. 10c; oz. 20c

PEACH OR GARDEN LEMON. The fruit is about the size of a large peach, oval-shaped and of a bright orange yellow color, somewhat russeted. When it first ripens it is quite hard and has very little flavor, but they soon become mellow, not sweet, and have a rich flavor, but for sweet pickles, pies, or preserving, they are superb.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.20

BANANA. An entirely distinct variety, bearing long slender banana-like fruit. Flesh deep salmon color, thick and of good quality.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. \$1.00



DEFENDER

DEFENDER. A splendid variety. It is one of the very best yellow-fleshed sorts and in some respects is far superior to any of this class. The fruit is medium sized, oval in shape, slightly ribbed, covered with gray netting. The flesh is firm, finely grained, and of a rich, deep yellow color. The flesh extends to the rind and retains its color hard and firm, so that one can remove the edible portion with a spoon, leaving a rind no thicker than that of an orange. The vine is vigorous and very productive, fruit, because of the hard, firm rind, keeps and bears shipment remarkably well. One of the most desirable of the yellow-fleshed sort, either for the home or the market garden.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

Water Melons.

Wassermelonen.

Sanhios

We grow Water Melons on a very large scale and are in a position to offer the very best seed at reduced prices.

Melon seed has been one of our specialties for years and we supply many of the leading seed houses of the country.

If you are in the market for a large quantity of melon seeds, be sure and ask us for special prices.

CULTURE. The same as for Musk Melon except that they should be planted from 8 to 10 feet apart. One ounce for 30 hills; 3 to 4 pounds to the acre.



TOM WATSON

TOM WATSON. In the last few years this melon has become immensely popular. The average size fruit of this variety reaches the size of 24 to 28 inches long and 12 to 14 inches in diameter. It has a dark mottled green rind, thin, but tough enough to stand shipping long distances. For the home or for the market garden or for shipping it is a money-maker for the growers. The seed we offer is of the very best strain.

Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c

HALBERT HONEY. Originally grown in Texas, it comes to us from the East, where owing to its superb qualities, it has won a reputation in an incredibly short time. The melons are oblong of form, symmetrically rounded at both ends. The skin is smooth, of dark green color, thin and rather brittle; on this account the melons do not stand shipping well. They are, however, the best melons for home use and nearby markets. The flesh is of a beautiful crimson color, of luscious flavor and entirely free from strings. Try Halbert Honey this year.

Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c

ICING OR ICE RIND. Solid, always of good flavor, rind very thin. Unequaled in good qualities but not a good shipper. There are two types, light skinned and dark skinned, but the light may be a few days earlier. In ordering please state which you prefer.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

SWEET HEART. An excellent melon. Vine vigorous, productive, and ripens its fruit early. Fruit is large, oval, very heavy, uniformly mottled light and dark green. Rind thin but very firm. Flesh bright red, firm, solid, very tender, melting and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

ALABAMA SWEET. A long melon with dark skin and red flesh. One of the first to come into market, is good growth and will bear longer than any other varieties. It has light seeds, is of good size though not ungainly, and is a first class shipper. Raised extensively in Texas, where it brings extra prices.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

DIXIE. This new and desirable variety of Southern origin is a cross between Kolb's Gem and the Mountain Sweet, having the tough rind and the long keeping qualities of the former, combined with the great productiveness, high flavor and freedom from stringiness of the latter. Color of the skin dark green, striped with a lighter shade, making it very attractive; rind thin, but tough; flesh bright scarlet, ripens closely to the rind.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

GYPSY OR GEORGIA RATTLESNAKE. The melon is long, smooth, distinctly striped with light, mottled and wavy dark green stripes. Flesh bright scarlet, and very sugary. Notwithstanding its thin rind it will stand shipping well.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

COLE'S EARLY. This is an extra early melon, maturing fully a week or more in advance of any other variety. The melons are oval in form, small in size and handsomely striped with light and dark green. The fruits are of good quality and it is a very desirable variety for localities where the season is short.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

CUBAN QUEEN. A large and solid variety; rind very thin and strong; ripens very close to the rind; skin striped with light and dark green. Vines strong, healthy, and of vigorous growth; very heavy cropper, flesh bright red, tender, melting, luscious, crisp and very sugary. It is an excellent keeper, stands shipping well.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

CITRON. For preserving. Rind striped and marbled with light green, flesh white and solid.

Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 75c

BLACK SPANISH. Round, very dark green, with scarlet flesh and black seeds. Has a very thin rind and a rich sugary flavor.

Pkt. 5c; oz. 10c; ¼ lb. 20c; 1 lb. 60c

The Rocky Ford. Barteldes' Select



The famous Water

Melon is in a fair way to become as popular as the Canteloupe of the same name. Fruit is of large size, oblong in shape, averaging eighteen to twenty inches in length to ten to twelve inches in diameter. The appearance is handsome, the flesh is a bright scarlet with a flavor which is superbly delicious. Unfortunately the skin is too tender to admit of shipping to any great distance, but its other excellent qualities make it the most desirable for home use and for selling in nearby markets.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 90c

ROCKY FORD—Ordinary Strain. Saved from average good specimens.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

GRAY MONARCH. The skin is mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. One of the most productive and popular varieties.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

ICEBERG. Similar to Kolb's Gem, but distinctly darker and the skin, where it rests on the ground, is rich yellow instead of white as in that variety. It has a very firm, hard rind, and is a good shipper. The flesh is of deep coloring, very tender and sweet.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

ICE CREAM. One of the best Watermelons, solid, always of good flavor, rind very thin.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

JONES' JUMBO. The shape is round, color green, with faint lighter stripes; deep red meat, surpassing all other varieties in flavor. As a market melon it sells very rapidly and for high prices.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

KENTUCKY WONDER. In shape it is oblong, skin dark green, marbled in stripes of light green. The flesh is of a beautiful scarlet color, crisp and of rich sugary flavor. It is always firm and never mealy. Attains an average weight of 30 to 40 pounds.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

"KING AND QUEEN" WINTER WATER-MELON. Average weight 25 pounds. Spherical in shape, ivory shell, pink center, seeds black. The most luscious, handsome and valuable winter melon in the world. It is very hardy, a good drought resister, and does well in any soil which grows melons; never sets an imperfect specimen on its vines, and ripens every melon in less than 120 days. It is a prize-taker everywhere. These melons have been shipped to market as late as December. Ripens on the vines the third week in August and does not change its condition for ninety days if not bruised. The shell is very hard and the melon ripens to within one-eighth of an inch of it.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. \$1.00

KLECKLEY SWEETS. This melon is dark green, the flesh is scarlet, ripening close to the skin, the rind being only about one-half inch in thickness. Seeds white, lying close to the rind, leaving a large, solid heart, which does not crack open when ripe. The scarlet flesh is sweet and sugary, and of such texture that it leaves no string of pulp whatever in eating.

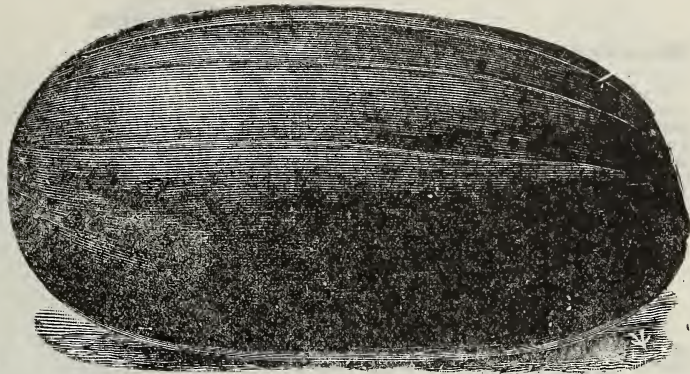
Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

CHILEAN. This melon originated near Los Angeles, Calif., where it is extensively grown. It has a very attractive appearance, being nearly round, with dark green rind and black stripes extending from end to end. The flesh is bright red, solid, sweet and melting, leaving no pulp in the mouth. Seeds white; skin one-quarter of an inch thick, very strong, excellent for shipping. Fry it.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c

McIVER'S WONDERFUL SUGAR. Oblong in shape, attains great size and weight, the rind showing broad stripes of light and dark green; flesh rosy pink, solid and stringless from rind to core. Crisp and delicious.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c



ROCKY FORD.

MAMMOTH IRONCLAD. This is one of the largest melons grown. It resembles the striped gypsy in color, but grows larger.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

KOLB'S GEM. The vines are remarkably vigorous and healthy. Fruit of the largest size, round and slightly oval, marked with irregular mottled stripes of dark and very light green. Flesh bright red, extending to within half an inch of the rind; always solid, very firm, a little coarse, but sweet and tender. An excellent keeper and very good for shipping.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

MOUNTAIN SWEET. Size large, flavor good, rind thick, dark in color, best for garden culture.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

PHINNEY'S EARLY. A very early variety, medium and uniform size. The skin is smooth, with narrow white mottled and dark green stripes. Flesh light red, or pink, very sweet and delicious.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

PRIDE OF GEORGIA. A much better table variety than the Kolb Gem, though not so good a shipper, owing to the exceeding thinness and tenderness of the rind.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

SEMINOLE. It is extra early, enormously productive, extra large and of most delicious flavor. It is of two distinct colors, gray and light green. The gray color predominates, about one-fourth of the melons being the light green color. Melons of both colors are found on the same vines.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

TRIUMPH. Triumph is a cross between the Duke Jones and the Kolb's Gem, have the same handsome green color of the former and the fine shipping qualities of the latter, but infinitely superior in flavor and grows much larger than either.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

KANSAS STOCK OR COLORADO PRESERVING MELON. A boon to the dry land farmer. This melon is grown extensively in Oklahoma, Western Kansas, and Eastern Colorado. It is immensely productive. The melons grow to a large size, some of them weighing as high as 60 to 70 pounds. The flesh is firm and solid with only very few seeds. The melons will keep all winter and can be fed to stock the same as turnips and beets. They grow on most any kind of soil, stand dry seasons very well and seem adapted to most climates.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

FLORIDA FAVORITE. Oblong in shape, growing to a very large size, rind dark with light green stripes, flesh light crimson, crisp and deliciously sweet. One of our best sellers.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 20c; lb. 60c

BLACK DIAMOND. A cross between Kolb's Gem and Hoosier King. Its prominent point of merit is its extreme size. Melons weighing 75 to 90 pounds are frequent. Its color is a rich dark green, almost black, of uniform symmetrical shape, roundish to bluntly oval.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c

Mushrooms.

Champignonbrut.

Seta.

Mushrooms can be grown wherever there is a cellar or a close shed, in which an even temperature of from fifty to sixty degrees can be maintained and where a plentiful supply of fresh horse manure for making the beds can be obtained. You can have these delicious fungi, considered one of the finest delicacies, by getting good spawn from us and by following the directions given in our book, "How to Grow Mushrooms," price 10c, postpaid.

PURE CULTURE SPAWN.

- 1 brick. 40c
- 2 bricks. 70c
- 4 bricks. \$1.30

With every order for four bricks, at mail prices, we shall be pleased to send the above mentioned book, "How to Grow Mushrooms," free of charge.

By express at purchaser's expense:

- 5 bricks. \$1.20
- 10 bricks. 2.15
- 25 bricks. 4.80



MUSHROOMS

Mustard.

Senf.

Mostaza.

Varieties.	Pkt.	Oz.	1/4 lb.	Lb.
Giant Curled Southern. Highly esteemed for salads, particularly in the South. The leaves are twice the size of the ordinary White Mustard: flavor sweet and pungent.	5c	10c	20c	60c
Ostrich Plume. The leaves are long, ruffled and curled as gracefully as an ostrich plume. Is especially good as a salad and as greens, equal to spinach. The growth of leaves makes it a very ornamental plant.	5c	10c	20c	60c
Chinese. A very hardy variety. Leaves are large, thick and deeply savoyed with broad white mid-rib.	5c	10c	20c	60c
Black or Brown. The common, small seeded variety. More pungent than the white.	5c	10c	15c	40c
White English. Leaves are light green, mild and tender when young; seed light yellow.	5c	10c	15c	40c

Nasturtiums.

Kupuzinerkresse.

Capuchina.

The seeds while young and succulent are pickled and used as capers. The plants are also highly ornamental; the tall variety makes an excellent screen or covering for unsightly places in the garden. Do not sow until the ground is warm.

	Pkt.	Oz.	1/4 lb.
Tall Nasturtium	5c	15c	35c
Dwarf Nasturtium	5c	15c	40c

Okra or Gumbo.



TALL OKRA

Safran.

Quimbombo.

One ounce will plant 100 hills.

CULTURE. Sow late in the spring, after the ground has become warm, in drills 3 feet apart, and, when the plants are three inches high thin out from 10 to 12 inches. They should be well manured. They also can be started in a hot bed and transplanted afterwards. The young green seed pods of this plant are used in soups or stewed and served like asparagus. The young pods can also be dried for winter use.

EARLY DWARF PROLIFIC.

Short podded and productive. Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 50c

TALL.

Grows to a height of five feet. Pods usually eight ridged and about 6 inches long. Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 50c

WHITE VELVET.

It is very distinct in appearance, and unlike other varieties the pod is not ridged but is perfectly smooth and round. They are of attractive appearance and superior flavor and tenderness. The plants are comparatively dwarf and of compact, branching growth; the pods are of extra large size and produce in great abundance. Pkt. 5c; oz. 10c; 1/4 lb. 20c; lb. 60c

Onions.

Zwiebeln.

Cebollos.

We make a specialty of onion seed and handle it extensively. We grow a large portion of our seed ourselves and have it grown under our supervision. Our seed is grown from choice selected bulbs and can be relied upon. We make special prices to gardeners and others using seed in large quantities. The picture below shows one of our large fields in California.



CULTURE. The onion thrives best in a rather deep, rich loamy soil, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. As early in the spring as the ground is in working order, commence operations by leveling the ground with a rake; sow thickly in rows a quarter of an inch deep and one foot apart; cover with fine soil and press down with the back of the spade or a light roller. When the young plants are strong enough, thin gradually so that they stand 3 to 4 inches apart. Keep the surface of the ground open and free from weeds by frequent hoeing, taking care not to stir the soil too deeply, or collect it about the growing bulb. When ripe, pull and dry thoroughly before storing. As maggots are the worst enemies of an onion patch, commercial fertilizers are better to use than manures, which originate maggots. One ounce to 100 feet of drill, 4 to 5 pounds to an acre.

American Yellow Varieties.

AUSTRALIAN BROWN. This fine onion is extra large and sure to make a good crop. This onion is of special merit because of its excellent keeping qualities, bulbs remain in excellent condition until almost a year after they are harvested.

The advantage of this is easily seen, especially by the Southern growers. In shape and form they resemble somewhat the round Yellow Danvers, but the former are heavier in every case. The skin is quite thin and bright reddish brown, while the flesh is solid, crisp and mild.

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

SOUTHPORT YELLOW GLOBE.

The true Southport Onions are very handsome Globes of superior quality. They are excellent keepers, uniform in size and form, and command higher market prices than any other kind. We highly recommend the Yellow Globe. It ripens a little earlier than the red, grows to an average size of two to three inches in diameter and has all the good qualities mentioned above.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25

YELLOW GLOBE DANVERS.

A very excellent variety of globular shape; flesh white and of a mild flavor, skin brownish yellow. It is very productive and a good keeper.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25

SELECT COLORADO GROWN YELLOW DANVERS. Grown in Larimer county. Acclimated and gives best results.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.60

FLAT YELLOW DANVERS.

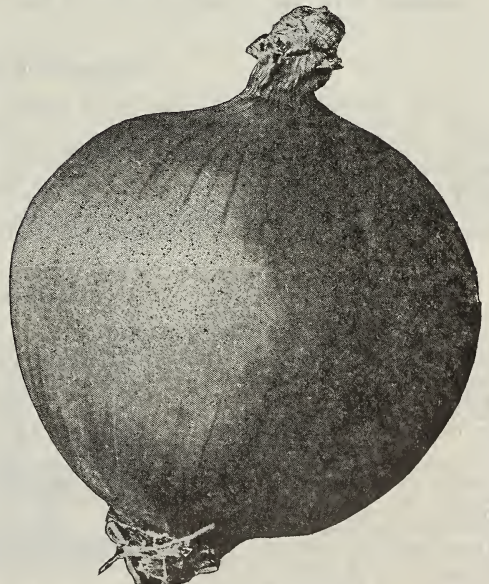
Same as Globe Danvers, except in shape.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.10

OREGON YELLOW DANVERS.

It is a cross between the Flat and the Globe, one of the best keepers for our Western climate.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25



PRIZETAKER ONION

PRIZETAKER. This handsome variety is a splendid type of the celebrated Spanish fancy onions, which are annually imported into the United States from Spain and sold by confectioners and fruiterers in our large cities at from 25 to 50 cents each, and even higher. The onions grown here quite rival the imported ones in great beauty and enormous size. The outside skin is of a greenish yellow color, while the flesh is white, sweet and mild. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 40c; lb. \$1.25

Onions—Continued.

American White Varieties.

SOUTHPORT WHITE GLOBE.

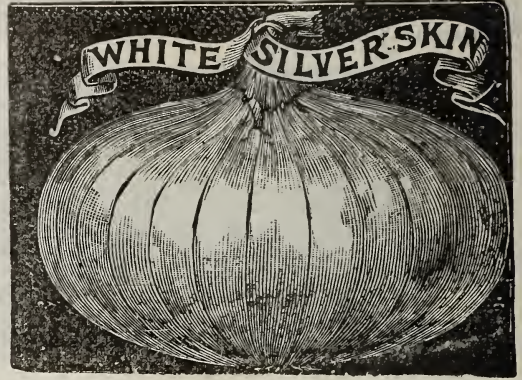
Yield abundantly, producing handsome and uniformly globe-shaped bulbs. The flesh is firm, fine grained and of fine flavor.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.75

WHITE SILVERSKIN OR PORTUGAL.

A mild, pleasant flavored variety, admirable for family use; not so good a keeper as the dark-skinned varieties.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.50



SELECT COLORADO GROWN RED GLOBE.

Grown for us and under our Supervisor's care from selected bulbs in Larimer county. It is well acclimated and the earliest red globe onion.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 50c; lb. \$1.65



American Red Varieties.

EXTRA EARLY RED FLAT.

This variety ripens about 10 days earlier than the large Wethersfield and is rather smaller in size, but close grained and heavy.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.25

SOUTHPORT RED GLOBE.

A large globe-shaped onion, with small neck and rich red color; a splendid keeper and of extra fine quality. It matures a few days later than the Red Wethersfield.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.25

LARGE RED WETHERSFIELD.

The old standard sort; best for main crop. Large, deep red, thick, nearly round, fine grained, of pleasant flavor and a good yielder. It ripens in September and keeps well.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.25

Gigantic Gibraltar Onion

This comparatively new and little known variety is particularly adapted for growing in warm climates. In appearance it is very similar to the well known "Prize Taker" Onion; will grow larger under favorable conditions. The handsome globular shaped bulbs have a light straw colored skin, while the flesh is white and very mild. The ripe onions are excellent keepers and surpass, in this respect, most of the other varieties, if properly handled. Experiments have shown that of onions harvested in August, fully 95 per cent were in fine marketable condition in January, free from split and rotting.

These onions are excellent for marketing purposes as well as home use. The growing crop withstands dry weather to a remarkable degree. Most highly recommended.

Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 65c; lb. \$2.25

Italian Varieties.

GIANT ITALIAN TRIPOLI.

A large, beautiful, pure white onion of mild, excellent flavor. Will produce a somewhat larger onion from seed than our White Portugal, but to attain their full size the plant should be started very early in a hot bed and set out in rich soil. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

EARLY WHITE QUEEN.

Succeeds well everywhere. The bulbs are small, flat, beautifully white and of excellent flavor, but the principal recommendation is the marvelous rapidity of their growth.

It will produce ripe onions in 100 to 110 days from date of sowing. Both the White Queen and the Extra Early Barletta are highly recommended for pickling purposes.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

LARGE WHITE LISBON.

Globular shaped, grows to a large size, pure white and very mild. As it is late to mature, should be sowed early in the spring. It is used very much by our market gardeners for sowing in August, wintered over and bunched up in the early spring for green onions.

Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 45c; lb. \$1.60

MAMMOTH SILVER KING.

We have imported seed of this truly mammoth variety. The onions are of attractive shape with silvery white skin and flesh of a most agreeable flavor. It reaches a larger size than any of the flat white varieties.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

EL PASO.

A variety from Mexico. It grows there to a diameter of 6 inches, weighing two-thirds of a pound, flavored very mildly. Our seed of this variety comes direct from Mexico. Skin of the onion generally white, but sometimes mixed with red and yellow.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00

EXTRA EARLY BARLETTA.

It is fully two or three weeks earlier than the Early White Queen, which heretofore has been the earliest variety under cultivation. The onions are of a pure paper-white color, very mild and delicate in flavor, from one inch to one and one-half inch in diameter and three-fourths of an inch in thickness.

Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 45c; lb. \$1.50

Onions—Continued.



**BERMUDA ONION SEED IMPORTED
FROM TENERIFFE.**

In growing onions the quality of the seed is of greatest importance. Our seed is grown by the best grower in Teneriffe and is the best to be had.

WHITE BERMUDA.

This valuable onion is especially adapted to the Southern states and is the most profitable of all varieties of onions for the grower. Ease of cultivation, large size and mildness of flavor make it the most valuable of this type. The White Bermuda is a selection from the original Red Bermuda, and preferred to all others by growers in the South. We offer seeds obtained direct from the Isle of Teneriffe, one of the Canary Isles, the home of the Bermuda onion.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

Onion Sets. Steckzwiebeln.

For bushel prices please see our Pink List.

Prices are subject to market fluctuations. When you want large quantities ask for market prices.

Thirty-two pounds constitute a bushel, except the top or Button Sets, which are 28 pounds per bushel.

We are selling Onion Sets, as well as everything else by the pound; believe our customers will find this more satisfactory than the quart method. A pound of Onion Sets is equal to about a quart.

When wanted by mail add 5 cents per pound.

RED BOTTOM. Produced by sowing thickly the seed of the large Red Wethersfield variety, and thinning out. They mature under this method when about half an inch through. They are used precisely as top onions and set them out in the spring instead of sowing seed.

Lb. 15c; ¼ bu. \$1.00

YELLOW BOTTOM. Identical with the preceding except in color. They are used in the same manner and are produced from the seeds of the Yellow Danvers variety.

Lb. 15c; ¼ bu. \$1.00

WHITE BOTTOM.

The seed of the White Silver Skin or White Portugal variety is used to produce white sets. They do not keep as well as the red or yellow but produce beautiful white onions early in the season.

Lb. 15c; ¼ bu. \$1.00

RED TOP OR BUTTON.

Produce no seed but instead a small number of bulbs or onions about the size of acorns on top of the stock. These little bulbs are used instead of seed, and will produce a large onion, maturing much earlier than from the seed.



The large onion produces the top onion and the little top onion produces the larger onion.
Lb. 15c; ¼ bu. \$1.00

WINTER TOP. This variety has been lately advertised by Eastern houses as "Perennial Tree

or Egyptian Onion," at high prices. We tried it and found it to be our old and long-known Set, which are only good for early bunch onions, making no bulbs. If once set, they will come up year after year without any winter protection. The set grows on the top of the stalks. Should be planted in fall.

Lb. 15c; ¼ bu. 60c

POTATO ONION. Produces a quantity of young bulbs on parent root, which should be planted early in the spring in rows 18 inches apart in the row, and covered one inch deep. They should be earthed up like potatoes as they continue to grow.

Lb. 20c; ¼ bu. \$1.25

WHITE MULTIPLIER.

These are of a pure silvery white color, enormously productive, frequently producing as many as 20 bulbs in a cluster from a single bulb plant. It is of excellent quality and size for bunching green, or can be ripened for use as pickling onions; for this latter purpose can be grown much more economically than from the seed. Their most important quality is extreme earliness, being ready for market from 3 to 4 weeks ahead of other onion sets.

Lb. 20c; ¼ bu. \$1.25

SHALLOTS. Used extensively in Germany. Valuable for an early crop. They grow in clusters; very productive and of a mild and sweet flavor.
Lb. 20c; ¼ bu. \$1.25

Petersilie.

Parsley.

Perejil.

CULTURE. Parsley succeeds best in rich, mellow soil. As the seeds germinate very slowly, 3 or 4 weeks elapse sometimes before it makes its appearance. It should be sown early in the spring, previously soaking the seeds for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. One ounce to 150 feet of drill.



DWARF PERFECTION.

DWARF PERFECTION. This new Parsley well deserves the name of perfection. It combines a highly decorative appearance with a fine delicate flavor and is very desirable for planting as a border around flower beds.

The plant, if properly transplanted and given space for development, will form a symmetrical half-globe shaped bush from 6 to 8 inches high and about 10 inches across. The color is a delightful green and the leaves are attractively curled.

CHAMPION MOSS CURLED. The green leaves are finely cut and curled, and of dark green color. Extra fine for garnishing and culinary purposes.

HAMBURG TURNIP ROOTED OR GERMAN PARSLEY. The root resembles a small parsnip and is the edible part of this sort; extensively used for flavoring soups.

NEW EMERALD. The plants are dwarf and of compact growth. The leaves are of a handsome bright green color, and very finely crimped and curled. It is very ornamental and commands high prices in Western markets.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

Pastinake.

Parsnips.

Chirivía.

CULTURE. They do the best in deep rich sandy soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is slow to germinate, it should be sown as early as possible; cover ½ inch deep, and press the soil firmly over the seed; give frequent cultivation, and thin the plants 6 to 8 to the foot. As they are improved by frost, a part of the crop should be left in the ground for spring use. One ounce will sow 150 feet of drill, 5 pounds an acre.

MAGNUM BONUM. A very fine and greatly improved strain of the Hollow Crown, which we can recommend to all market gardeners as a money maker. The roots are smooth, not so long as those of the standard sort, somewhat thicker in diameter and much more easily pulled. A heavy cropper.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

SUGAR OR HOLLOW CROWNED. The best for table use; a vegetable of merit, easily raised and of great productiveness.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

IMPROVED GUERNSEY. Roots comparatively short, ending somewhat abruptly with a small tap root; grows with a cavity on the top or crown of the root.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

Peas.

Arvejas.

Erbsen.

When ordering Peas to be forwarded by mail be sure to add postage at rate of 8c per pound.

CULTURE. Peas can be grown in every garden, but for the earliest varieties a light, warm, moderately rich soil is most suitable. The smooth kinds can be sown as soon as the ground can be worked, but the wrinkled varieties should not be planted till it is warmer, or they will rot. Sow in single or double rows from 1½ to 3 feet apart, dropping a pea every inch and covering from 2 to 3 inches deep. For a succession sow every ten days up to July. Sow one quart to 50 feet drilled; 1½ to 2 bushels to an acre.

GRADUS OR PROSPERITY. This remarkable pea is not only large and of the best quality, but it is also nearly as early as the small, round, extra early sorts. It is hardy and may be planted as soon as the ground is fit to work in the spring, along with smooth peas.

The vine grows to a height of about 30 inches. The pods are of a light green color and measure 4 inches or more in length, being as large as Telephone and equally as well filled with luscious peas—8 to 10 in a pod. The peas are of first class table quality and retain their color and attractive appearance after cooking. It is a grand pea in all respects.

Large Pkt. 10c; lb. 20c; 2 lbs. 35c; 10 lbs. \$1.50

ALASKA. A variety of remarkable earliness. It is a good yielder and produces pods of good size and dark green color, which are well filled with round, smooth peas of splendid flavor. The color of the dried pea is green. It ripens evenly; one picking will nearly clean off the crop. Advise market gardeners to give this variety a trial.

Pkt. 5c; lb. 15c; 2 lbs. 25c; 10 lbs. \$1.00

UNIQUE. Dwarf, hardy, prolific, first early variety of great merit; pods in pairs long pointed, dark green and well filled with peas of fine flavor. One of the best smooth seeded varieties for extra early sowing.

Pkt. 5c; ½ lb. 15c; lb. 25c; 2 lbs. 45c; 10 lbs. \$1.75



EXTRA EARLY GRADUS

Peas—Continued.

Early Smooth Varieties.

PEDIGREE EXTRA EARLY. The market gardener's favorite. For illustration and description see Novelties.

FIRST AND BEST. This is a reliable early cropper of the hardy smooth seed variety. Not quite as early as Alaska. Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

TOM THUMB. Fine, bushy, growing to a height of 10 inches; foliage heavy; productive; matures in 36 days after sprouting.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

Early Wrinkled Varieties.

AMERICAN WONDER.

The vine grows 8 to 10 inches high and is very prolific in pods of striking form and size. In maturing it is among the earliest, ripening in about 50 days from germination. It is among the first of the early green wrinkled sorts.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

NOTT'S EXCELSIOR.

Robust and vigorous in growth, very prolific, producing a profusion of long handsome pods, closely packed with large peas of fine flavor. An improvement on American Wonder, being more vigorous and prolific with large pods with more green peas than either the Wonder or Premium Gem. Seeds green, wrinkled, square at the ends like American Wonder. Height 12 inches.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

PREMIUM GEM.

An improvement on the Little Gem, being larger and more productive. Early in maturing, very luscious in flavor and highly recommended. Try it.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

HORSFORD'S MARKET GARDEN.

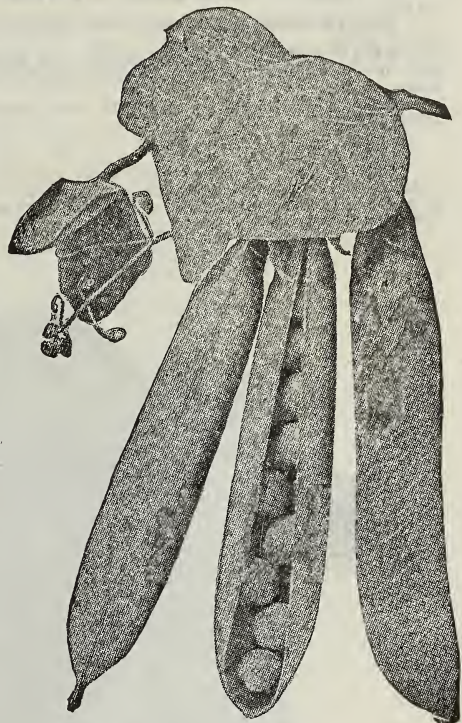
Very popular with the canners on account of its heavy yields. The vines are from 2 to 2½ feet tall and very uniform. Pods are of medium size but remarkably well filled with peas of fine flavor.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

MCLEAN'S LITTLE GEM.

A good standard sort; early, productive and of good flavor, growing from 18 to 20 inches high.

Pkt. 5c; ½ lb. 15c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25



AMERICAN WONDER.

Main Crop Varieties.

DWARF CHAMPION.

This is a dwarf-growing strain of the popular Champion of England, which for many years has been considered the Standard Pea for main crop and summer use. The stocky vines grow only two feet high and set large well-filled pods very freely. In warm soils and locations this dwarf type will give better results than the tall strain.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

BLISS EVERBEARING.

The vines attain a height of 2½ to 3 feet; foliage large; the pods will average 3 to 4 inches in length, each pod producing 6 to 8 wrinkled peas. These peas are very large, being half an inch and over in diameter, and in quality unsurpassed. For a continuance of bearing this variety is unexcelled.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

CHAMPION OF ENGLAND.

A most popular and extremely productive second early pea, which has been valued for many years as the standard variety for summer use. Vines are of strong growth and very productive of large, well-filled pods. The flavor of the peas is delicious. Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

IMPROVED STRATAGEM.

Seeds green, wrinkled; middle crop; one of the best peas ever sent out; grows vigorously and showing vine of branching habits; heavily laden with immense pods containing 10 to 12 peas of large size; height 1½ feet.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

TELEPHONE.

This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It bears splendid peas of the finest quality and excellent, sugary flavor; vine very strong, averaging 18 to 20 pods per plant; the pods are of a large size and closely packed with from 8 to 10 large delicious peas.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

PRIDE OF THE MARKET.

This famous New England Pea has given great satisfaction. It grows from 18 inches to 2 feet high and has grand pods, well filled with large peas of excellent flavor. Its robust growth, enormous productiveness and superior appearance make it a favorite.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

YORKSHIRE HERO.

Maturing after the premium Gem, but the vines are of a much stronger habit. It is hardy, productive, and of superior flavor.

Pkt. 5c; 1 lb. 20c; 2 lbs. 35c; 10 lbs. \$1.25

DWARF TELEPHONE.

Grows from 20 to 24 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods containing from 8 to 10 peas. It is one of the best for second early and, on account of its nice appearance, brings the highest price on the market. Must be sown further apart than other peas. Height, 2 feet.

Pkt. 5c; ½ lb. 15c; 1 lb. 25c; 2 lbs. 40c; 10 lbs. \$1.50

If you buy in quantities ask for our Market Gardener's Price List.

Peas—Continued.

Marrowfats and Sugar Peas.

BLACKEYE MARROWFAT. A very productive variety of strong growth, requiring much space. If grown in the garden brushwood or poles are necessary. Matures in 80 days after germination. Pkt. 5c; 1 lb. 10c; 2 lbs. 15c; 10 lbs. 75c

WHITE MARROWFAT. Very similar to the Blackeye Marrowfat, except that it does not have black eyes. Pkt. 5c; 1 lb. 10c; 2 lbs. 15c; 10 lbs. 75c

GRAY SUGAR. (Edible pods.) A splendid variety with edible pods. It grows medium high, and is remarkable for its prolific character. The pods are flat and crooked, and contain 5 to 6 peas. Pkt. 5c 1 lb. 25c; 2 lbs. 40c; 10 lbs. \$1.50

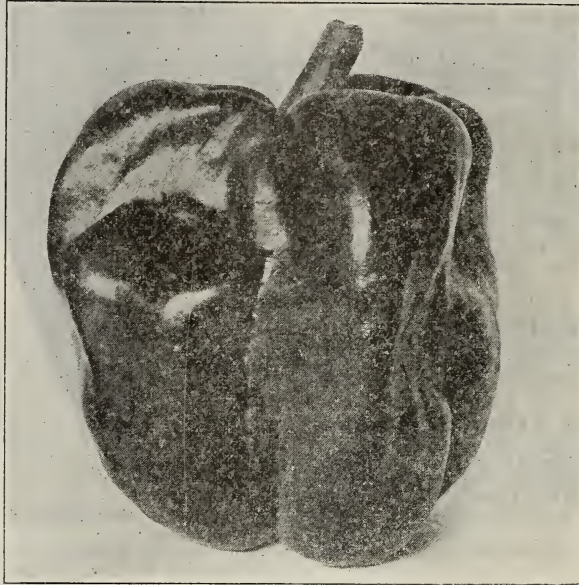
Note.—If you are in need of peas in large quantities write us. We will make prices that will please you.

Pepper.

Pepper.

Pimiento.

CULTURE. Peppers should be started in a hot bed in February or March, and not planted outside until the ground is warm, and there is no more danger of frost. Set the plants in rows 2 feet apart and 18 inches in the row. Hoe often and keep the weeds down. One ounce produces about 1,000 plants.



CHINESE GIANT.

CHINESE GIANT.

One of the very best and largest mango Peppers ever introduced. Its mammoth size, splendid shape, beautifully rich, glossy-red flesh and mild flavor, all lead us to recommend it very highly. Its strong bushy plants are heavily loaded with large fruits, which are produced throughout the season. A very unusual variety worthy of the highest recommendation. Pkt. 10c; ¼ oz. 15c; ½ oz. 25c; oz. 45c; ¼ lb. \$1.25

NEAPOLITAN, LARGE EARLY.

First brought to this country by a company of Italian market gardeners, this pepper has quickly pushed its way to the front, and is now on a fair way to become the principal shipping pepper of this country. It combines extreme earliness with a most prolific character, and is now the earliest large fruited pepper in cultivation. The first fruits are ready for market the last week in June. Pkt. 10c; ¼ oz. 15c; ½ oz. 25c; oz. 45c; ¼ lb. \$1.25

SWEET SPANISH.

An excellent rather late variety. Very mild, thin skinned and fruit rather long.

Pkt. 5c; oz. 25c; ¼ lb. 75c

PROCOPP'S GIANT OR ELEPHANT'S TRUNK.

This variety produces large, long, thick-fleshed peppers of a brilliant scarlet color. The flesh is fully ½ inch thick and of a slightly pungent flavor. Pkt. 5c; oz. 25c; ¼ lb. 75c

MONSTROUS OR MAMMOTH.

Of cylindrical form, 6 inches long by 2½ inches in diameter. When ripe, the fruit is of a beautiful coral red, sweet and thick fleshed.

Pkt. 5c; oz. 25c; ¼ lb. 75c

RUBY KING.

Fruit of a bright red color, 6 to 7 inches long by about 4 inches through. They are remarkably pleasant and mild in flavor and can be eaten sliced with vinegar, like tomatoes. The best for making mangoes.

Pkt. 5c; oz. 25c; ¼ lb. 75c

GOLDEN DAWN.

It resembles the popular Bell Pepper in shape. It is of a most beautiful golden yellow color, and of a very handsome appearance, both in growth and upon the table.

Pkt. 5c; oz. 25c; ¼ lb. 75c

LONG RED CAYENNE.

This fruit is a brilliant coral red, conical, and from 2 to 3 inches long and from ¾ to 1 inch thick. Very pungent. Pkt. 5c; oz. 20c; ¼ lb. 75c

CELESTIAL.

This pepper has two uses, being both ornamental and edible. The profusely bearing plants produce fruits of constantly changing color. When young they are a creamy yellow and as they mature they become a vivid scarlet. The bushes are an ornament to any garden and the peppers are fine for pickling.

Pkt. 5c; oz. 20c; ¼ lb. 75c

LARGE RED CHILL.

This pepper is slightly larger than the Red Cayenne, being 3 inches long and 1 inch thick. The fruit is bright red, very hot and fiery, and ripens early. It is used for making the famous Mexican Chill. Pkt. 5c; oz. 20c; ¼ lb. 75c

LARGE BELL OR BULL NOSE.

A very large pepper of square shape, mild, thick and hard. Suitable for stuffing and for mixing pickles. It is less pungent than other sorts, and notwithstanding its size, is one of the earliest.

Pkt. 5c; oz. 25c; ¼ lb. 75c

Potatoes.

Kartoffeln.

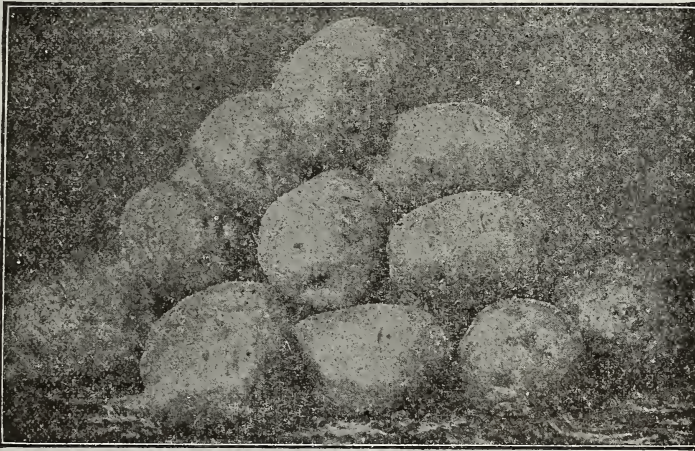
If wanted by mail 15c per pound, postpaid. We use extra packing for small shipments.

Standard weights of Irish Potatoes 60 pounds per bushel. Please state in case stock of variety ordered is exhausted if we shall return the money or substitute an equal value of some near variety. We make special prices on large lots. Write us.

Our potatoes are grown by experienced men, who make a specialty of potatoes for seed. You can depend on our stock. It is usually cheaper to have potatoes shipped in bags on account of both the cost of the barrel and the greater weight. We will ship potatoes whenever directed, or use our best judgment, but in no case will we be responsible for delay or damage in transit.

CULTURE. Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil they will be of better quality than if planted on clay soil. The sets should be planted from 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches in the rows. If planted 1½ feet by 3 feet there will be about 9,700 hills in one acre, and it will take between 600 and 700 pounds, according to the size of the sets to plant it. At 3 by 3 feet one-half the quantity is sufficient.

Prices: 1 lb. 10c; 4 lbs. 25c. Ask for prices on larger quantities; if not quoted, will charge current prices of day the order is received.



EARLY OHIO.

TRIUMPH. Red River Stock. This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose. Tubers are medium size, round and uniform in shape, with but few small ones; eyes slightly depressed; color a beautiful light red. Its beauty, productiveness and good qualities in general make it one of the best early market varieties, especially for the South, from whence it is shipped to Northern markets, bringing highest prices on account of its appearance.

BURBANK. A large, long, white potato of excellent quality. Fine for main crop and a splendid keeper. One of the first introductions of the famous Wizard.

RURAL NEW YORKER No. 2. The standard white market potato. It is very large, usually smooth, oblong, inclining to round, and rather flattened. Skin and flesh white; quality excellent; season intermediate. Tubers of great uniformity in size; almost every one marketable.

DOWNING. One of the best for main crop; is about 10 days later than Early White Ohio. It is a white potato, kidney shaped, smooth skin, with shallow eyes, and a heavy yielder of medium to large tubers. Vines are spreading and hills require to be planted further apart than other varieties.

BUG DEATH kills the bugs but does not injure the foliage. Try it on at least a few rows and notice the increase in the yield. Include some Bug Death with your order.

EARLY OHIO. Northern grown, Red River stock. Extra early, and one of the best, if not the best, for the Western states. It is fit for table use before fully ripe, and can be shipped earlier than any other variety.

WHITE OHIO. Skin white, flesh creamy white, eyes deeper than Early Ohio; not as good yielder as Early Ohio and not very good keeper. Shape mostly round.

EARLY SIX WEEKS. Earliest potato in existence and most valuable for market gardeners. A great beauty. Perfect table potato and a wonderful yielder. Ready for market in six weeks, matures in 72 days, two weeks ahead of any other variety, and has yielded as high as 400 bushels to the acre.

NETTED BURBANK. Called sometimes Netted Gem. A late variety with skin brownish and leathery; flesh white, eyes shallow, shape long and smooth; cook mealy and dry. Good yielder and good keeper.

Potatoes—Continued.

PEACHBLOW. A late variety; skin pink spotted to red, flesh yellowish white, eyes shallow and few; shape large and round. Fair yielder and a good keeper.

MAMMOTH PEARL. A late variety; skin leathery white, flesh very white and mealy; eyes shallow; shape oval and somewhat flattened; a good keeper and the heaviest yielder for Colorado, 200 to 300 bushels per acre.

ROSE SEEDLINGS. This is the potato that is famous about Greeley, and is now known in nearly all potato markets as "Colorado Red," "Greeley Seedling," etc. It is our standard for general crop. Our stock is selected for purity.

Sweet Potatoes.

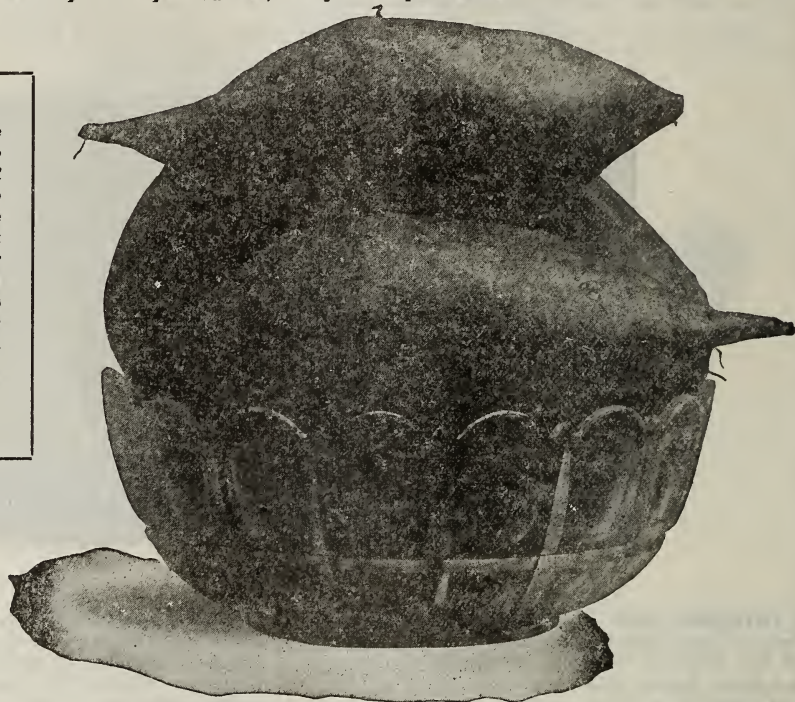
CULTURE. Sweet potatoes should be started in a hot bed. When the ground is warm and the danger of frost is past the shoots are carefully lifted and planted in rows three feet apart and eighteen inches in the row. They need considerable care till well started, but after getting a good start will grow easily. They should be cultivated quite often, moving the vines to prevent from rooting at the joints. They must be harvested before frost.

One bushel makes 2,000 to 3,000 plants. Three to four bushels to the acre.

To insure prompt filling of orders for sweet potatoes they must be engaged ahead. Standard weight of sweet potatoes 50 pounds per bushel; 125 pounds per barrel.

Buyers will please note that owing to the tenderness of Sweet Potatoes we do not guarantee the safe arrival of Sweet Potato Plants or seeds; however, we use all precautions necessary in packing and time of shipping.

Sweet Potatoes cannot be mailed.



PRIDE OF KANSAS

"Pride of Kansas."

Grown alongside of all other varieties known to us, "Pride of Kansas" outyielded every other sort, including the "Yellow Jerseys," which have the reputation of being the best all "around." The strongest point in favor of the "Pride of Kansas" is the excellent shape of the tubers. While all the other varieties end in a more or less long, slim neck, this sort is rather blunt on both ends. The average specimen measures 8 inches in circumference in the middle, with 6 and 7 inches in circumference on either end. And we have frequently found 8 to 10 fine tubers to a single hill, weighing an average of 10 ounces each. The tubers are of superior appearance, having an attractive russett-yellow skin, flesh of a beautiful rich, light salmon color. "Pride of Kansas" is the best.

10 lbs. 80c; 25 lbs. \$1.75

YELLOW NANSEMOND. Standard variety for main crop; good keeper and fine flavor.
10 lbs. 75c; 25 lbs. \$1.50

YELLOW JERSEY. Similar to the preceding, only shorter and thicker.
10 lbs. 75c; 25 lbs. \$1.50

Please see our Pink List for market prices.

Sweet Potato Plants.

Ready May 13 until in July.

If wanted by mail, postage should be added; 15c for 50; 25c for 100 plants. Will make a special rate on large lots.

We positively will not accept orders for long distance shipping of Sweet potato Seed or Plants, excepting at purchaser's risk.

	Per	Per		Per	Per	Per
	50	100	1,000		50	100
Yellow Nansemond	25c	40c	\$3.50	Yellow Jersey	25c	40c
						\$3.50

We have fertilizers especially suited to potato culture. Ask for particulars. Humphrey's Concave Potato Knife is just the thing to cut potato sets with; 30c, 3 for 75c, postpaid.

Pumpkins.

Kürbisse.

Calabaza.

CULTURE. Pumpkins require the same general culture as melons and squashes. As the plants require much space and as they readily mix with cucumbers, melons, etc., they are not very suitable for the home garden. The common practice, and a good one, is to plant the seeds in the corn field, either in hills or between the rows, after the last cultivation. One ounce of seed to thirty hills; 4 pounds to an acre.



CUSHAW.

CUSHAW OR CROOKNECK. A French variety liked by many. Has yellow flesh, solid and sweet. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

KING OF MAMMOTH OR GENUINE MAMMOTH. The flesh and skin are of a bright golden yellow. Flesh fine grained and of excellent quality. Notwithstanding its enormous size, it is one of the very best pie pumpkins ever grown, and a splendid keeper. This enormous variety has been grown to weigh over 200 pounds. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00



TENNESSEE SWEET POTATO. A good variety for making pies and other cooking purposes. It is of medium size, of a creamy white color, and has an excellent flavor; good keeper. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c

COMMON FIELD OR BIG TOM. The well known old Connecticut variety. Grows well among corn; varies in shape. Excellent for feeding dairy stock. Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 40c

KENTUCKY FIELD. A large variety, producing pumpkins in abundance. Has thick meat of fine quality. Very suitable for canners' use. Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 40c

MAMMOUTH TOURS. A French variety which grows to an immense size, often weighing over 100 pounds. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c

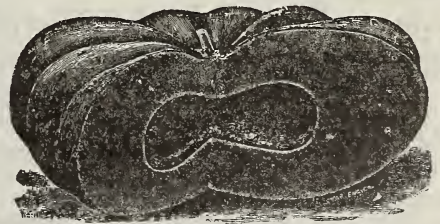
SMALL SUGAR.

SMALL SUGAR. Smaller than the field pumpkin, but finer grained, sweeter, and very prolific; first rate for the table or stock. The best variety for making pies.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

JAPANESE PIE. The flesh is very thick, nearly solid; the seed cavity being very small in one end of the pumpkin; fine grained, dry and sweet, having much the taste and appearance of sweet potatoes. They ripen early, keep well, and are fine for home use. The seeds have peculiar marks resembling characters of the Chinese alphabet.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 80c



LARGE CHEESE

LARGE CHEESE. A popular variety in the South. Fruit flattened, the diameter being 2 or 3 times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; flesh tender and of excellent quality. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

Radieschen,

Radishes.

Rabanitos.



CULTURE. Sow as early in the spring as the ground can be worked, and every two weeks throughout the season for a succession of crops. A warm sandy loam, made rich and light by some good, strong manure, which is thoroughly rotted will be most likely to afford them free of worms and brittle. During summer months use the summer or winter varieties, as the early kind get pithy. Winter Radishes can be wintered over as easily as any root crop and furnish an acceptable relish. One ounce to 100 feet of drill; 10 pounds to an acre.

Early Round Varieties.

ROSY GEM. One of the earliest varieties in cultivation. It is of perfectly globular shape, of rich color, being deep scarlet on top, blending to pure white at the bottom. The radishes are exceedingly tender and crisp and delicious. Desirable for growing under glass as well as in the open ground.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.

EARLY SCARLET GLOBE. This variety makes roots fit to pull as early as Non-Plus-Ultra, but they are much larger when full size, and for this reason are very popular in some markets. Roots round or slightly oval shaped; color rich, deep scarlet, flesh white and tender.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

EARLY ERFURT DARK, ROUND RED OR DEEP SCARLET TURNIP. This is a splendid strain of the small extra early, round radish; it is ready for use in 18 to 20 days after sowing. The radishes are very attractive, tender and mild flavor. The tops are small, hence it is an excellent variety for growing under glass.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY SCARLET TURNIP. A small, sound, red turnip shaped radish, with a small top, and of very quick growth.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

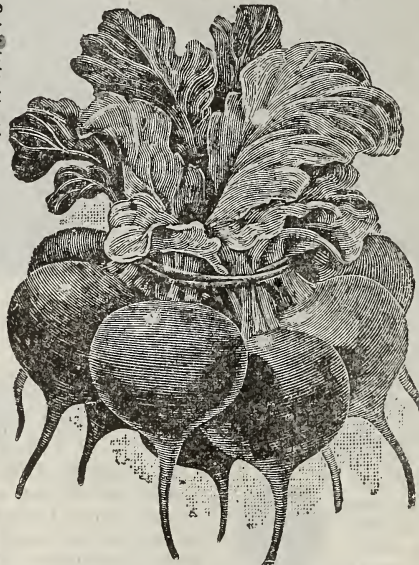
EARLY WHITE TURNIP. Both skin and flesh are white. It is a few days later than the scarlet turnip, and will bear heat, without becoming pithy.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

FRENCH BREAKFAST. A medium-sized radish with small top, and tender.

EARLY SCARLET OLIVE SHAPED. Very early and handsome. Shaped, top very small.

CINCINNATI MARKET. An improved Long Scarlet Short Top, the roots being more perfect in shape, and excellent for forcing.



DEEP SCARLET TURNIP

a large number can be grown in a single bed.
Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

SCARLET TURNIP, WHITE TIPPED. A beautiful variety, deep scarlet with white tip. It is very ornamental for table use, and is becoming very popular as a market variety. It is of the same size and shape as the scarlet turnip variety.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

Olive-Shaped Varieties.

FRENCH BREAKFAST. A medium-sized radish with small top, Quick growth and very crisp and tender.

EARLY SCARLET OLIVE SHAPED. Very early and handsome. Shaped, top very small.

CINCINNATI MARKET. An improved Long Scarlet Short Top, the roots being more perfect in shape, and excellent for forcing.

Summer Varieties.

All of the following varieties attain a larger size than do any of the earlier radishes. While not ready for the market quite so early they remain in fine condition longer without becoming pithy.

Varieties.	Pkt.	Oz.	¼ Lb.	Lb.
CHARTIERS OR SHEPHERD. Long Scarlet tipped with white.....	5c	10c	20c	60c
GIANT WHITE STUTTGART. Very large, excellent quality.....	5c	10c	25c	70c
WHITE STRASBURG. Will stand summer heat admirably.....	5c	10c	25c	70c
LONG WHITE VIENNA OR LADY FINGER. A rapid grower of fine shape	5c	10c	20c	60c
YELLOW SUMMER TURNIP. A general favorite with market gardeners.	5c	10c	20c	60c



CRIMSON GIANT GLOBE. This new radish is an entirely new type, and differs radically from all the varieties hitherto in

cultivation, in so far that its roots attain more than double the size of those of other forcing varieties without getting pithy or hollow. This giant radish develops roots 6 to 8 inches in circumference and over an ounce in weight, their pure white flesh remaining firm and crisp, and of mildest flavor. Notwithstanding the extraordinary size and weight of its bulbs, it is second to none as a forcing variety. It's equally well adapted to outside culture. The seeds should be sown very thinly to permit full development of the roots.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c

NON PLUS ULTRA. By far the smallest-topped and earliest forcing radish in cultivation. Roots small, round, deep red, with very crisp, tender white flesh. This is the very best variety for forcing, as it will mature in 18 to 21 days and the tops are so small that a large number can be grown in a single bed.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

SCARLET TURNIP, WHITE TIPPED. A beautiful variety, deep scarlet with white tip. It is very ornamental for table use, and is becoming very popular as a market variety. It is of the same size and shape as the scarlet turnip variety.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c

Radishes—Continued.



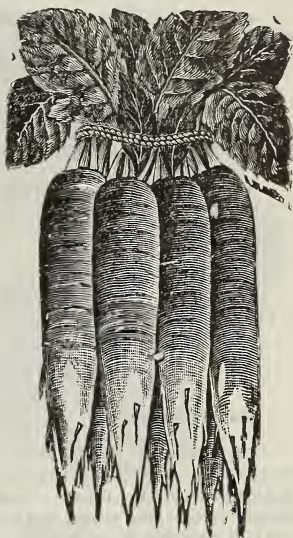
WHITE ICICLE

Long Varieties.

White Delicious. See Novelties.



BARTELDES GLASS RADISH. The radish comes from the same gardener in Denver who originated the Denver Market Lettuce, and is a fine acquisition. It is a long radish of light pink color, white tipped, of uniform size. The flesh is transparent white, always crisp and brittle, even if grown to a large size, and mild flavored. It was named "Glass Radish" on account of the fine transparency of the flesh. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c



BARTELDES GLASS

HALF LONG DEEP SCARLET. The roots of this hardy and desirable variety are of a very brilliant, deep red rich color, and half long, with somewhat tapering points, the flesh is very white, crisp and tender, and holds its juiciness very well not becoming pithy until overgrown. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

EARLY SCARLET SHORT TOP. Is undoubtedly the best standard variety for private garden and market use. It grows 6 or 7 inches long, half out of the ground. It is very brittle and crisp and of quick growth. Color, bright scarlet, small top, tapers regularly to the root, and is uniformly straight and smooth. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

WHITE ICICLE. (Eizapfen.) An entirely distinct long slender, pure white variety. It is without doubt the earliest and finest long white Radish in existence. Ready for use fully as early as Long Scarlet Top, with less foliage, rendering it most desirable for forcing. In the open ground the roots continue brittle, crisp and mild until they are fully as large as those of the Long Bright Scarlet. The Icicle is perhaps superior to the finest long red ones. Roots four inches in length and half an inch in diameter; they retain their crispness and fresh, mild flavor until fully 6 inches long and an inch in diameter. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 65c

LONG BRIGHT SCARLET OR CARDINAL.

Extra early, the roots being fit for use about 25 days after sowing; very bright color; quite unique; being the most fiery scarlet in any kind of radish. It is very slightly tipped with white, and the flesh is crisp and tender. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

WOOD'S EARLY FRAME.

Of the "Long Scarlet" type, not quite so long and a little thicker, the brilliant scarlet color, mild, brittle, of fine flavor, and the most suitable for forcing and the early market garden. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c

Winter Radishes.

SAKURAJIMA—See Novelties.

These can be divided into two distinct classes: the European varieties and the Chinese, or California varieties. The former have firm, hard, but very fine grained flesh, while the latter produces radishes of an extra large size with white, crisp and juicy flesh.

The Long Black Spanish and the Round Black Spanish are the favorite German Winter "Rettige."

The White Chinese is the finest of all extra large white radishes. Nearly the whole of the splendid root grows above the surface, which makes pulling them a pleasure. The flesh is always crisp and juicy.

The China Rose-colored, and the California Mammoth White are quite similar to the above, but not quite so large. 5 lb. lots of one variety 15c less per lb. not prepaid.

Varieties.	Pkt.	Oz.	¼ Lb.	Lb.
LONG BLACK SPANISH. An excellent keeper.....	5c	10c	25c	70c
ROUND BLACK SPANISH. Fine for winter use.....	5c	10c	25c	70c
WHITE CHINESE OR CELESTIAL. Cultivated extensively by market gardeners.....	5c	10c	25c	80c
CHINA ROSE COLORED. Not as strong as the "Spanish" Radishes.....	5c	10c	25c	70c
CALIFORNIA MAMMOTH WHITE. Grows from 8 to 12 inches long.....	5c	10c	25c	70c

Rhubarb or Pie Plant.

Rhobarbar.

CULTURE. Rhubarb succeeds best in deep, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to 12 inches apart. The following spring transplant in place; set the plants from 4 to 5 feet each way. One ounce produces from 400 to 500 plants.

Book, "Rhubarb Culture," by J. E. Morse, price 50c.

LINNAEUS. Early, large and tender.

Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.00

VICTORIA. The most popular variety, later than the preceding.

Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.00

AUSTRALIAN CRIMSON WINTER. Luther Burbank's introduction. Can be grown indoors in winter time.

Pkt. 10c; oz. 50c; ¼ lb. \$1.50

Rhubarb Roots.

LINNAEUS and **VICTORIA**, 2 for 25c; 5 for 50c; 12 for \$1.00, charges prepaid. If by freight or express not prepaid 50c per dozen; \$4.00 per 100.

Salsify or Oyster Plant.

Haferwurzeln.

Salsifl.

CULTURE. The Oyster plant succeeds best in some light, well enriched soil which previous to sowing the seeds should be stirred to the depth of 18 inches. Sow early in the spring in drills 15 inches apart; cover the seeds with fine soil 1 inch deep. One for 60 feet of drill; 7 pounds to one acre.

MAMMOTH SANDWICH ISLAND.

This splendid variety grows to fully double the size of the old sort; is of superior quality and delicate flavor. The Oyster Plant is one of the most nutritious and delicious vegetables, and should be more generally cultivated for winter use when the supply of really good vegetables is limited.

No Market Gardener should fail to grow it. It is a paying proposition.

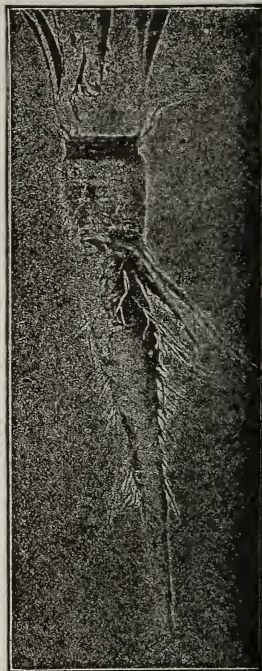
Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.50

Spinach.

Spinat.

Espinach.

CULTURE. Requiring but little culture it is one of the most easily managed of all vegetables. The main crop is sown in September, and if in exposed places it is sometimes covered with straw during the winter, which prevents it being cut by the frost. For summer use it may be sown at intervals of 2 or 3 weeks, from March to August. Spinach is best developed, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre.



SALSIFY

LONG STANDING.

An improved strain of excellent merit, having all the good qualities of the ordinary sorts; but it is especially desirable because of the fact that it is much later in going to seed than the average variety.

Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c

PRICKLY OR WINTER.

The hardiest variety and will withstand the severest weather with only a slight protection of straw or leaves. The seed is prickly, leaves triangular, oblong or arrow shaped. It is the best for fall sowing, which in this latitude is about the first of September.

Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c

ROUND SUMMER.

This variety is generally preferred for early spring growing, and is popular with market gardeners. Leaves thick and fleshy. Not quite as hardy as the prickly, but stands winter well.

Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c



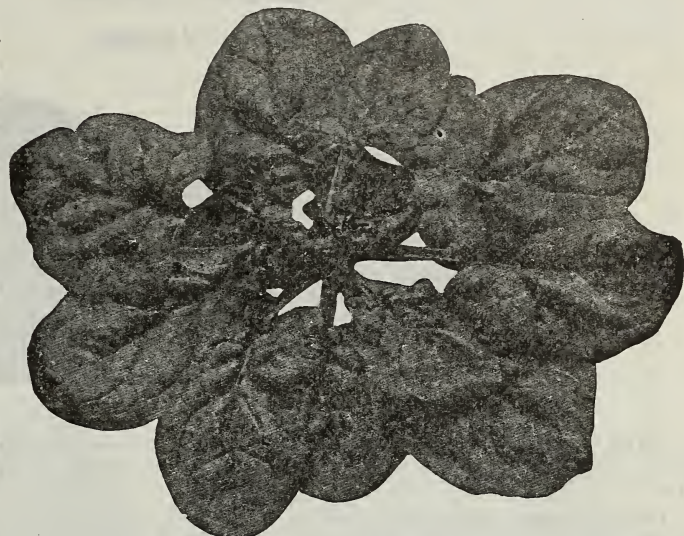
LONG STANDING SPINACH

Spinach—Continued.



TRUE VICTORIA.

The foliage is heavy, the broad dark leaves being of the true Savoy appearance and are of the finest quality. The feature that makes it of especial value for both market and family gardens, is that it is in prime condition from two to three weeks after all other varieties of Spinach have run to seed. Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c



TRUE VICTORIA SPINACH

LARGE, ROUND, THICK LEAF VIROFLAY.

A most valuable variety with very large thick leaves, making it especially desirable where bulk is wanted. Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c

AMERICAN CURLED SAVOY LEAVED.

A most valuable variety. In appearance the leaf is wrinkled in the same way as that of the Savoy Cabbage, hence the name. It produces nearly twice the bulk of crop as the ordinary sort, is fully as hardy and in all other respects equal. Pkt. 5c; oz. 10c; ¼ lb. 15c; lb. 35c

NEW ZEALAND. (Tetragonia expansa.)

This is not a Spinach of the ordinary kind, but a plant of branching growth. One single plant will grow to dimensions of six feet across, producing an abundance of thick, fleshy, juicy stems, and leaves, which make an excellent Spinach. The flavor is fine and the fact that it does well throughout the hottest summer, makes it all the more desirable. Every Market Gardener should grow a crop where there is a market for Spinach. It is a money maker. Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. \$1.00

Five pounds or more of one variety, not prepaid, at 15c less per pound.

Squashes.

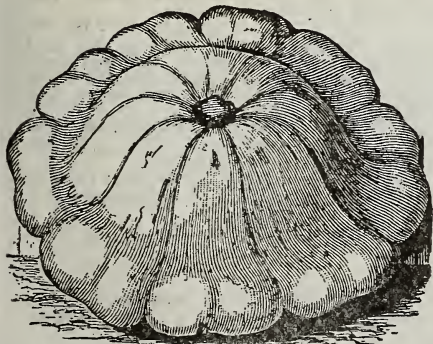
Spelse Kurbiss.

Calabaza.

CULTURE. Squashes are divided into two classes; the early summer sort and the late fruited winter varieties. Sow about the middle of spring in hills, the early sort about 4 feet apart, and the late varieties 6 to 8 feet. Drop enough seed to be thinned to three plants in a hill. The hills should be highly manured and prepared in a similar manner as those for cucumbers. One ounce to 40 hills for small sorts; large varieties 1 ounce to 20 hills; 4 to 5 pounds to an acre.

Five pounds or more of one variety, not prepaid, at 15c less per pound.

BUG DEATH kills all kinds of bugs and does not injure the foliage. Include some with your order. You will need it later.



EARLY WHITE BUSH

Summer Varieties.

EARLY WHITE BUSH.

This is the well known White Patty-pan squash. The earliest to mature, very productive; light cream colored. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

MAMMOTH WHITE BUSH.

The fruit is a beautiful clear white wax instead of the yellowish white so often seen in the old stock, and is much larger. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c

GOLDEN SUMMER CROOKNECK.

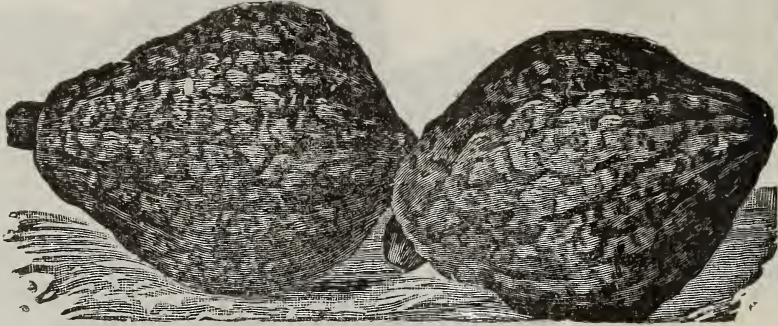
A small crooknecked summer squash; skin bright yellow, covered with warty excrescences. Very early, productive and of excellent flavor. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

MAMMOTH SUMMER CROOKNECK.

One of the best summer Squashes. It is twice as large as the ordinary Summer Crookneck, highly attractive, several days earlier. This combination of earliness and size makes it a most desirable variety for the market gardener as well as for private use. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c

Squashes—Continued.

Winter Varieties.



HUBBARD SQUASH

HUBBARD. The best table Squash yet known, rivaled only by the "Delicious," as described above. Good specimens are about equal to the sweet potato. It has a hard shell, and with some care will keep three months longer than the Marrows. Flesh fine grained, dry and of excellent flavor.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00; 5 lbs. not prepaid \$4.00

THE WARTED HUBBARD. This is, in quality, one of the best winter sorts. It is attractive on the market and a ready seller. Very dark green, and flesh is dry and sweet. Very hard shell, which insures good keeping qualities. It is considered an improvement on the old type of Hubbard on account of its warted skin.

Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.25

RED OR GOLDEN HUBBARD. This is a very distinct, short, of the shape and general character of the Hubbard, but a little smaller, earlier to mature, and of a rich orange red instead of the dark olive green of the old Hubbard, while the flesh is of a little deeper color and of fully as good quality.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

GREGORY'S DELICIOUS. This fine new winter squash, now offered by us to the Western Planters is of the finest quality possible. The Eastern people have had it for the past few years, and the popularity of this splendid variety increases steadily. In size it closely resembled the original Hubbard. In color it is almost uniform with occasionally a blue specimen. The thickness of its flesh surpasses nearly every other variety; the color being a dark orange. For table use it cannot be excelled; these Squashes represent a remarkable combination of fineness and compactness of grain, dryness, sweetness and exceeding richness of flavor.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.25

BOSTON MARROW. Oval in form, color of skin bright orange, flesh yellow, very desirable for late autumn and winter use.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 30c

ESSEX HYBRID. An improved American Turban, having the color, shape and superior quality of the Turban with the dry and hard shell of the Hubbard. It is not only one of the richest flavored, finest grained, and sweetest of all the squash family, but also one of the very best keepers.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

PROLIFIC MARROW. One of the earliest varieties, remarkably productive and a good keeper. Its color is a most attractive brilliant orange red. In quality of meat it is rivaled by a few varieties only.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 30c

VEGETABLE MARROW. A favorite English sort; early, skin greenish-white, flesh white, soft and of rich flavor; quite distinct from other sorts.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

MAMMOTH CHILL. Although not new, we desire to call the especial attention of all who want "Mammoth Squashes" to this variety. Size enormous, often weighing 100 to 200 pounds; very profitable for stock feeding, especially where root crops are not grown extensively; remarkably productive.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 30c

MARBLEHEAD. An excellent keeper. It is about the size of the Hubbard with shell of bluish green, and a bright orange flesh. Requires the whole season to mature.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 30c

SIBLEY OR PIKE'S PEAK. One of the best shippers owing to the hardness of the shell. Flesh is solid and thick of bright orange color and choice quality. Flavor rich and sweet, and it ripens easily.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

FORDHOOK. One of the hardest, flesh thick, small seed cavity, and a good keeper.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c.

WINTER CROOK NECK. A good fall variety; flesh close-grained and sweet.

Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00

Tobacco.

Tabak.

CULTURE. Tobacco in this part of the country should be started in a hot-bed in March and treated the same as tomatoes.

HAVANA. Pure Cuban grown seed. When grown in this country commands a high price as cigar stock.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00

MISSOURI BROAD LEAF. A well known standard sort, valuable for cigar wrappers.

Pkt. 5c; oz. 30c; ¼ lb. \$1.00

CONNECTICUT SEED LEAF. Best adapted to the climate of the Middle and Northern States, as it is more hardy and endures the cold better than the tender varieties grown in the South.

Pkt. 5c; oz. 25c; ¼ lb. 75c

WHITE BURLEY. A variety grown for the manufacture of fine cut and plug.

Pkt. 5c; oz. 50c; ¼ lb. \$1.50

Tabaco.

Tomaten oder Liebesäpfel.

Tomatoes.

Tomate.

CULTURE. The seed should be grown in March in a hot bed or green house, or may be sown in a box and kept inside the window of a room where the night temperature is not less than 65 degrees. The plants should be thinned out in the bed so as to give them plenty of room or they will be weak and poor. They should be hardened before planting outside. About the middle of May the plants may be set in the open ground, from 4 to 5 feet apart each way. Our stock of tomatoes is grown by several of the best growers. One ounce produces about 1,500 plants. To prevent rot and blight on tomato plants spray with Bordeaux mixture, when first fruits have set. If disease appears repeat or use a weak Copper Sulphate solution as often as needed.

KANSAS STANDARD.

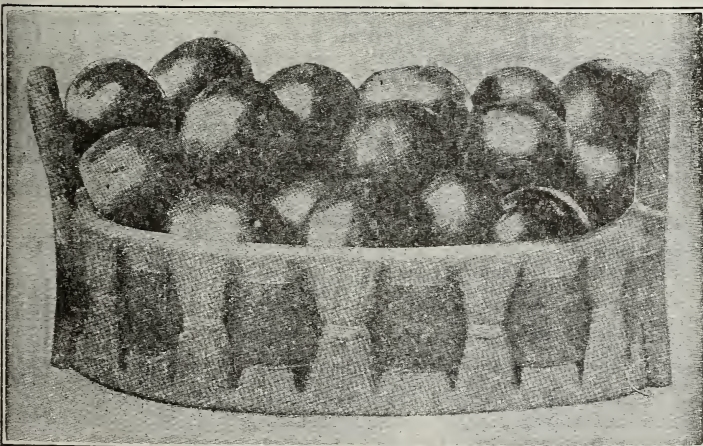
The Kansas Standard belongs to the potato leaved class of tomatoes; it is of rapid, vigorous growth, with strong heavy stalks, which stand up well unless, which is often the case, they are pulled down with over-abundant fruit. It begins blooming when only six or seven inches high, attains a height of from two and a half to three feet and sets its fruit—a rare habit in any tomato—from the first blooms. The fruit is of a bright glossy red color and is produced in clusters of from four to five tomatoes. In shape the fruit is round, slightly flattened, ripening clear to the stem, perfectly smooth. It has very few seeds; the meat is thick and firm and of a most excellent flavor.

This tomato is a first rate keeper and shipper on account of its tough skin, a fact which makes it also very resistable against influences of insects, which are so destructive to other varieties. Highly recommended. Pkt. 5c; oz. 25c; ¼ lb. 80c; lb. \$3.00



EARLIANA

EARLIANA. This is without doubt the earliest bright red tomato now in cultivation. The tomatoes are deep scarlet and grow closely together in clusters of five to eight. They are of medium size, smooth and solid. The plants are quite hardy with rather slender branches, bearing an abundance of fine tomatoes. The close dwarf habit of growth makes it very desirable variety where not much space can be wasted on a more spreading and branching variety. It is especially valuable as it produces fruit at the time when the prices are the highest. No market gardener should be without it. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00



THE MATCH-

LESS. For the past twenty years Matchless has been the main crop variety, and in spite of many new varieties, claiming superiority, has maintained its position as the finest large fruited, bright red variety. The vines are of strong vigorous growth, well set with fruit. The fruits are free from core, of a very rich cardinal red color and are not liable to crack from wet weather. They are of very large size and the size of the fruit is maintained throughout the season until the vines are killed by frost. The skin is remarkably tough and solid, and ripe specimens picked from the vines will keep in good condition for several weeks. Our stock of Matchless is absolutely unsurpassed.



MATCHLESS

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

PONDEROSA. The Giant among Tomatoes. The fruit is extra large and fine for slicing. If you want Big Tomatoes, plant Ponderosa.

ATLANTIC PRIZE. One of the largest, smoothest and best flavored of the extra early Tomatoes.

EXTRA EARLY RED. Very early and an excellent variety, where small tomatoes are wanted early.

ROYAL RED. First class main crop variety and very productive.

PERFECTION. A very heavy cropper and produces more and larger fruit toward the close of the season.

FAVORITE. Has no green core, of perfect shape, smooth as an apple and never cracks after ripening.

TROPHY. Large, smooth, solid, fine in color and prolific. Fine variety for gardeners or home use.

BARTELDES' STONE. Next to the Matchless and a fine Tomato, too, for main crop.

PRICES for the above eight varieties: Pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.00.

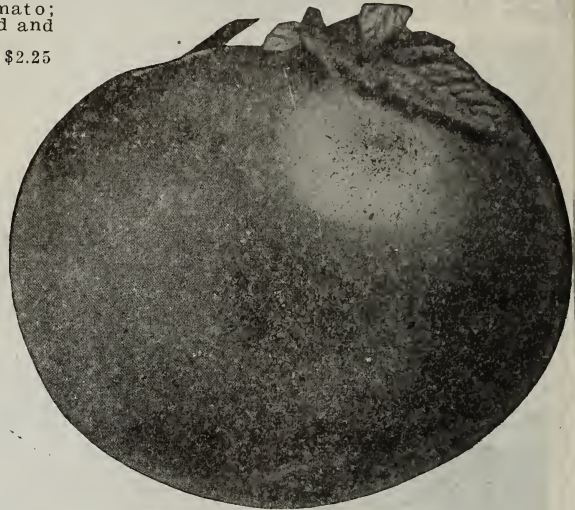
BONNY BEST. A good forcing scarlet tomato; uniform in size and smoothness; very solid and very prolific.

Pkt. 5c; oz. 25c; ¼ lb. 70c; lb. \$2.25

The Trucker's Favorite.

The fruits are thick meated and very solid; the meat is of the finest flavor, making the tomatoes equally good for slicing and for cooking purposes. A basket of these tomatoes is one of the most attractive sights on the market table, and parties offering them for sale will find the demand larger than the supply. Be sure to include this variety in your next order. You will want more seed next year.

Pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$2.00



THE TRUCKER'S FAVORITE

It is a very firm fruit and one of the best for long distance shipping.

Pkt. 10c; ½ oz. 15c; oz. 25c; ¼ lb. 80c; lb. \$2.75

HONOR BRIGHT.

The foliage is yellowish green, and the first fruit as it ripens turns first white, then yellow, and when fully ripe is a bright red. The fruit ripens slowly and seems to ripen up exceptionally well after picking, so that the fruit can be picked when white, packed and shipped, and after 5 to 10 days will be found solid and ripened to a rich, bright red.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25



Barteldes Selected Strain Beauty.

Grown especially for us, and under our personal care, from specimens selected and improved. It is the smoothest and best of the large purple sorts. Nothing better and more worthy to carry our trade mark.

Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25

NEW CORLESS.

A large main crop, bright red variety which may soon take the place of all other tomatoes now used for canning and catsup making. It is immensely productive, clusters of four to seven fruits are produced at six to eight inches apart along the stem when plants are trained to stakes. All of the fruits are of a marketable size, almost round in shape, with depression at the stem almost eliminated. The seed cells are surrounded by bright red, heavy, meaty and delicious flesh.

ACME. A Tomato of superior quality; of medium size and slightly oval in shape. Flesh deep scarlet and unusually solid. Grows very regular.

BEAUTY. It grows in clusters of four or five large fruits, retaining its large size very late in the season. It ripens very early and evenly, and is in perfect shape.

Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$2.00

DWARF CHAMPION. Its close, upright growth enables it to be planted much earlier and nearer together than any of the older, sorts, and the yield, therefore, is accordingly much greater. In productiveness it is unsurpassed. It is also very early. The fruit resembles the Acme, and is of a purplish pink color, and always smooth and symmetrical in form. It is medium size and attractive in appearance; the skin is tough and the flesh solid and of fine quality.

Pkt. 5c; oz. 25c; ¼ lb. 70c; lb. \$2.25

Yellow and Small-Fruited Varieties.

Varieties.	Pkt.	Oz.	¼ lb.	Lb.
Golden Queen. The best yellow variety. Of superior appearance and a distinct flavor of its own.	5c	20c	60c	\$2.00
Yellow Plum. Color bright yellow; excellent for preserving.	5c	20c	60c	\$2.00
Red Plum. Same as above except color.	5c	20c	60c	\$2.00
Red Pear. A small variety, early; fine for preserving.	5c	20c	60c	\$2.00
Yellow Pear. Same as above, except color.	5c	20c	60c	\$2.00
Red Cherry. A small variety, size and shape of a cherry; for pickling.	5c	25c	75c	\$2.50
Yellow Cherry. Same as above, except color.	5c	25c	75c	\$2.50
Husk Tomato or Ground Cherry. This is very fine for preserves; immensely productive.	5c	25c	75c	\$2.50

Tomato Plants.

Choice plants ready in spring. All standard varieties in season. At times, however, we may be out of some varieties and if customer will allow us to substitute it will hasten matters.

ASK FOR PRICES.

Turnips.

Rüben.

Nabor.

CULTURE. Turnips do best in highly enriched light sandy or gravelly soil; commence sowing the earliest varieties in April in drills from 12 to 15 inches apart, and thin out early to six or nine inches in rows. For a succession sow at intervals of a fortnight until the last week in July, from which time until the end of August sowing may be made for the fall and main crop. One ounce will sow 150 feet of drill; one and one-half pounds to the acre.

For feeding stock in the fall or winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

If five pounds of one variety are ordered, not prepaid, deduct 15c per pound.

White-Fleshed Varieties.

EARLY SNOWBALL. Is medium sized, pure white and early, of excellent quality. In our market it is much admired.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

EXTRA EARLY PURPLE TOP MILAN. The earliest in cultivation. The bulb is very flat, of medium size, quite smooth, with a bright purple top; leaves few, short and light of color, growing very compact and making an exceedingly small and neat top. The pure white flesh is of the choicest quality, hard, solid and fine grained. It is an excellent keeper.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EXTRA EARLY WHITE MILAN. Very similar to the preceding except the skin is pure white, thus making it especially desirable for forcing.

Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

EARLY WHITE FLAT DUTCH. (Strap leaved.) This is a popular early turnip for table use. For autumn and the early winter use this and the purple top are highly popular.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

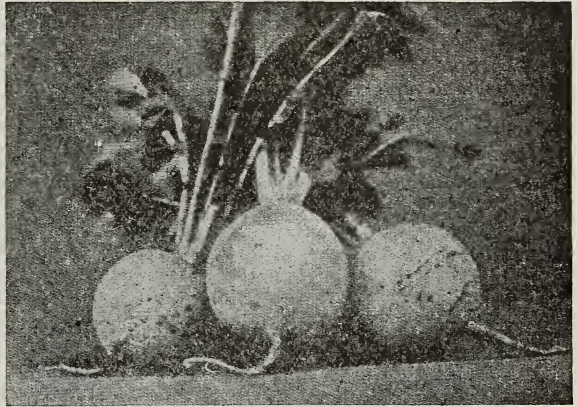
LARGE EARLY RED TOP GLOBE. An old favorite, large sized, of rapid growth, unusually attractive and admired by all who have seen it.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

POMERANIAN WHITE GLOBE. This is a free-growing, rough leaved sort, useful for both table and stock. It is not quite so rapid in growth as the flat varieties, may be expected to come in as a succession in autumn and is admired for table use in early winter.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

LONG WHITE OR COW HORN. Without question a good flavored and delicate sort. A distinct feature is its rapid growth. This variety



EARLY SNOWBALL

is a pure white, except a dash of green at the crown, and in shape is long like a carrot and generally crooked, hence its name.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

EARLY WHITE EGG. A quick-growing, egg-shaped variety, perfectly smooth, pure white, growing half out of the ground, with small top and rough leaves. Its pure white skin and quick growth make it particularly suitable for market purposes. The flesh is very sweet, firm and mild, never having the rank strong taste of some varieties.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

PURPLE TOP STRAP LEAVED. The standard for this part of the country. Superior for early or late planting. Round, flat, good sized, small top with but few leaves; flesh very fine; flavor good. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

Yellow-Fleshed Varieties.

AMBER GLOBE OR STRAP LEAVED. One of the best varieties for table use or for a field crop for stock. Flesh yellow, fine-grained and sweet, color of skin yellow with green top. Hardy, keeps well, a good cropper, grows to a very large size.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

GOLDEN BALL OR ORANGE JELLY. Undoubtedly one of the most delicate and sweetest yellow fleshed Turnips. Not a large size, but firm and hard, and of most excellent flavor. Keeps well. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

YELLOW ABERDEEN OR SCOTCH YELLOW. This is a turnip fine for cattle feeding. It attains a large size, is solid, nutritious, a good keeper, and can be recommended in every respect.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

SEVEN TOP. Cultivated exclusively in the south for the tops, which are used for greens. It is very hardy and will grow all winter, but does not produce a good root.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

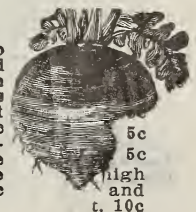
Rutabagas or Swedish Turnips.

PURPLE TOP YELLOW RUTABAGA. The best variety of Swedish turnip in cultivation. Hardy and productive, flesh yellow, of solid texture, sweet and well flavored; shape slightly oblong; terminates abruptly with no side or bottom roots; color deep purple above and bright yellow under the ground; leaves small, light green, with little or no neck; the most perfect in form, the richest in flavor and the best in every respect.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c

SWEET GERMAN. Flesh white, hard and firm, partaking much of the nature of the rutabaga. Must be sown much earlier than the flat turnip. In the autumn and the early winter it is apt to be too hard, but mellows like an apple by keeping.

Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c



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Aromatic, Medicinal and Pot Herbs.

Varities.	Pkt. Oz.
Anise. An annual, cultivated for its seeds and its leaves, which have a fragrant, agreeable scent and a pleasant taste..5c	10c
Balm. A hardy perennial of aromatic taste and a fragrant smell.....5c	25c
Borage—Gurkenkraut. Annual. In Germany the leaves are cut and used for a cucumber salad. Beautiful blue flowers. ....5c	15c
Caraway-Kuemmel. The seed are useful for flavoring .....5c	10c
Catnip or Catmint. A great favorite among medicinal herbs.....5c	30c
Chervil. Annual, used for soups and salads. ....5c	15c
Coriander. Annual, its tender leaves are sometimes used for soups and salads..5c	10c
Dandelion-Loewenzahn. Perennial; cultivated for spring greens; an excellent tonic. ....5c	25c
Dill. Annual; it is cultivated for its seeds, which are used medicinally and for flavoring pickles.....5c	20c
Hop. The popular variety of commerce.....10c	
Horehound. Perennial; of strong and aromatic smell; used as a tonic.....5c	20c
Hyssop. A perennial with aromatic flowers and of pungent flavor.....5c	20c
Lavender. Perennial; cultivated for its fragrant flowers and aromatic leaves..5c	15c

Varities.	Pkt. Oz.
Rosemary. Perennial; the tops only are used as a medicine.....5c	40c
Rue. Perennial; a very powerful tonic. It must not be allowed to run to seed..5c	15c
Sage. Perennial; tea made from these leaves is an excellent means of producing sweat .....5c	15c
Saffron. Annual; the dried flowers are used for medicinal purposes.....5c	20c
Savory. Annual; leaves are used for culinary purposes .....5c	20c
Sorrel. Broad leaved. Perennial; used in soups and salads and sometimes cooked like spinach.....5c	20c
Sweet Basil. Annual; the leaves are used for highly seasoned dishes as well as in soups, stews and sauces.....5c	15c
Sweet Fennel. Perennial. Tea made from the seed is an excellent remedy in case of colic and stomach complaints..5c	10c
Sweet Marjoram. Biennial; the leaves are used in soups, the seeds in the manufacture of sausage. An aromatic of sweet flavor.....5c	15c
Sweet Thyme. Perennial; thyme tea is an excellent remedy for nervous headaches. ....5c	30c
Tarragon. Perennial. A very popular French herb for making Tarragon vinegar.....10c	
Wormwood. Perennial; used for medicinal purposes. Beneficial to poultry and should be planted in every poultry yard. ....5c	20c

NO GARDEN IS COMPLETE WITHOUT A FEW HERBS.

Good Books on Garden and Farm Topics.

All Books Prepaid.

Amateur Fruit Growing. A practical guide by S. B. Green. Price.....\$0.25	Manual on the Cultivation of the Phlox. Price..... .25
Alfalfa. 164 pages, illustrated; by Coburn. Price..... .50	Manual on Propagation and Cultivation of the Paeony. Price.....\$0.25
Asparagus. Its culture for home use and market. Cloth cover. Price..... .50	Money in Grasses. By J. T. Barenburg. Illustrated. Price..... 1.00
Bailey's Forcing Book. New edition. Complete treatise for growing vegetables under glass. Price..... 1.35	Mushroom Culture and Pure Culture Spawn. Price..... .35
Bulbs and Bulbous Plants. Illustrated. Price..... .20	The New Rhubarb Culture. Cloth cover. Price..... .50
Cabbage and Cauliflower for Profit. By J. M. Lupton. Price..... .30	New Onion Culture. Illustrated. Price... .50
Celery Culture. By W. R. Beatty. A practical treatise. Price..... .50	Onions for Profit. 104 pages, illustrated... .30
Celery for Profit. By T. Greiner, illustrated. Price..... .20	The Potato. By E. H. Grubb and W. S. Guilford. Price..... 2.00
The Dahlia Manual. A treatise on Dahlia culture by W. W. Wilmore. Price..... .35	Potatoes for Profit. 82 pages, illustrated.. .20
Evergreens and How to Grow Them. By C. S. Harrison. Price..... .25	Practical Fruit Grower. Profusely illustrated. .... .50
Fertilizers. All about them. By Prof. Voorhees. Price..... 1.50	Practical Suggestions on Vegetable Culture. By Fitch. Price..... .25
Garden Making. By L. H. Bailey. Price... 1.00	Root Crops for Stock. Price..... .20
Green-House Construction. By Taft. Price. 1.50	Spraying Crops; why, when and how. By Prof. Weed. Price..... .50
House Plants and How to Succeed with Them. Price..... .50	Spraying for Profit. By Weed. Price..... .15
How to Eradicate Weeds. By Thomas Shaw. Price..... .50	Strawberry Culturist. Illustrated. Price.. .25
How to Grow Melons for Market. Illustrated. Price..... .20	Sweet Peas Up-to-Date. Price..... .10
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ape Gardening. By Prof. Waugh.50	Vegetable Gardening. With 123 illustrations. By Prof. Green. Cloth. Price, \$1.00. Paper cover.50
	The Window Flower Garden. Illustrated. Price..... .50
	The Barteldes Farm Guide. Price..... .50

GENERAL LIST OF FLOWER SEEDS.

All Prices of Flower Seeds are Postpaid.

ABRONIA UMBELLATA.

A handsome trailing plant with clusters of sweet-scented flowers, resembling verbenas in shape, but of smaller size; color rose lilac, with white eyes. Fine for baskets and vases as well as the garden. Remove the husks from the seed before sowing (as it grows much surer). Height 6 inches. Half hardy annual. Pkt. 5c

ABUTILON OR FLOWERING MAPLE.

Desirable plant for the conservatory in winter, and effective border plants during summer, producing a profusion of flowers. Half hardy shrubs. Height 2 to 6 feet; perennial. Finest mixed. Pkt. 15c

ACROCLINIUM. (Everlasting.)

This beautiful everlasting flower somewhat resembles the Rodanthe, but the flower heads are of a larger size. It is largely used for winter bouquet, for which purpose the flowers should be cut before they are fully expanded. Half hardy annual.

Mixed. Pkt. 5c White. Pkt. 25c

ADLUMINA OR ALLEGHENY VINE.

A most beautiful and graceful climber, thriving in a sheltered situation, and climbing by its tendrils to any object within reach. Is sometimes known as Mountain Fringe, Wood Fringe and Allegheny Vine. The beautiful pink and white flowers are produced in abundance during the three summer months. It is biennial and makes but little growth the first season. Height 15 feet.

White and Pink. Pkt. 10c

ADONIS AESTIVALIS.

Plants with fine and graceful foliage and brilliant scarlet flowers, remaining in bloom a long time. Grows well in shade or under trees. Height 1 foot. Pkt. 5c



AGERATUM MEXICANUM.

Flowers light blue or lavender, very desirable for bouquets, furnishing a continuous bloom through the summer. Plants flower well in house all winter, when potted in the fall before frost. Height 12 inches. Hardy annual. Pkt. 5c

AGROSTEMMA CORONARIA.

(Rose Champion.)

Perfectly hardy plants, producing pretty pink-like blossoms, on long, slender stems. Very useful for cutting bouquets, and pretty in masses or in bed. About 1 1/4 feet high. Perennial.

Fine mixed. Pkt. 5c

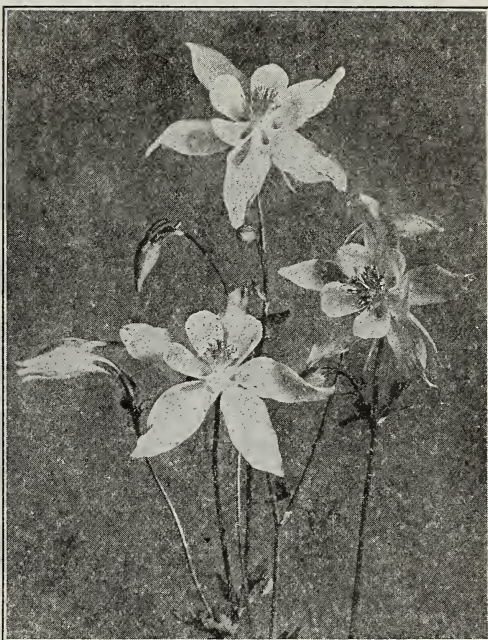
ALONSOA MYRTIFOLIA.

An attractive bedding plant with remarkably brilliant scarlet flowers, in bloom from July till frost. Removed to the house, they bloom well during the winter. Height 18 inches. Half hardy annual. Pkt. 5c

ALYSSUM, SWEET.

A favorite flower for bouquets, white, very fragrant and producing a succession of blooms through the summer and until after severe frosts. Always wanted when a bouquet is made. Height 1 foot. Hardy annual.

Maritimum. Pkt. 5c; oz. 25c
Little Gem. Pkt. 5c; oz. 35c



AQUILEGIA COERULEA.

(True Rocky Mountain Columbine.)

Colorado's emblematic flower. Needs to be seen to be appreciated. Color is a light blue, in very high altitudes nearly white. We are headquarters for this seed and furnish the true stock. Pkt. 10c

We can supply roots of this variety at 20 cents each, or three for 50 cents, postage paid.

OTHER VARIETIES OF AQUILEGIA.

These new double sorts are very beautiful and embrace a variety of colors and forms. Height from one to three feet. Hardy perennial.

Mixed colors. Pkt. 10c

Yellow. Pkt. 10c

ANTIRRHINUM. (Snapdragon.)

One of the most desirable flowers in the Catalogue for its variety of color and succession of bloom, lasting from July until severe frosts. The plants should be covered with fine boughs or other light material, in November, and they usually survive and bloom finely the second year. Height 1 foot. Biennial.

Dwarf Mixed colors. Pkt. 5c

Tall Mixed colors. Pkt. 5c

Queen of the North, white. Pkt. 5c

Coral. New variety growing 2 1/2 feet high and a profuse bloomer; color, bright red, and white throat. Pkt. 10c

AMARANTHUS.

Valuable for its varieties of handsome foliage, whether grown in the conservatory or garden. The colors will be more brilliant if planted in moderately rich soil. Height 2 to 3 feet. Hardy annual.

- Amaranthus tricolor* (Joseph's coat).....Pkt. 5c
- Amaranthus caudatus* (Love lies bleeding).Pkt. 5c
- Amaranthus cruentus* (Princess feather).Pkt. 5c

AMMOBIUM ALATUM.

A small, white Immortelle, everlasting, very useful for cutting when fresh and drying admirably for a winter bouquet; producing a succession of bloom from July until frost. Height 18 to 24 inches. Hardy annual.....Pkt. 5c

ASPERULA AZUREA SETOSA.

A flower finely adapted for bouquets by reason of its shape, size and delicate color—a light blue or lavender.

In bloom from July until after severe frosts. Height 9 inches. Hardy annual. Pkt. 5c

Asters.

No family of plants bear such marks of progress as the Aster, and none are more eagerly sought. Our seed is German grown and can be depended upon for fine bloom.



Good Mixed.

A good mixture of all kinds. Pkt. 5c
Queen of the Market. The earliest variety. Colors, white, pink, red, blue or mixed. ¼ oz., 40c. Pkt. 10c

TRUFFAUTS PAEONY FLOWERED. An old standard of medium height. The colors are bright and delicate; the flower deserves a place in every garden.

The following colors:
 Azure, blue, indigo, lavender and pure white, each, Pkt. 10c; all mixed colors, ¼ oz. 50c. Pkt. 10c

COMET OR BRANCHING.

A very handsome and distinct class of half-dwarf habit.
Giant White, the finest white.....Pkt. 10c
Many colors Mixed.....Pkt. 10c; ¼ oz. 60c
Daybreak. This variety is the "Phoenix" Astor, the color is a beautiful delicate pink..Pkt. 10c

ASPARAGUS.

A very popular house plant, much used for hanging baskets. Perennial.
Sprengerl.....Pkt. (15 seeds), 10c
Plumosus Nanus.....Pkt. (12 seeds), 15c

AMPELOPSIS.

One of the best climbing plants for permanent situations, as it is perfectly hardy, clinging to the sides of whatever it may be grown against by the rootlets it throws out all along the stems. In the autumn the dark green foliage assumes beautiful tints of orange, crimson, etc. Height 5 to 10 feet. Hardy perennial.

- Ampelopsis Quinquefolia* (American Woodbine) Pkt. 5c
- Ampelopsis Vetchii* (Japan or Boston Ivy) Pkt. 5c

ARMERIA MARITIMA. (Sea pink.)

These handsome plants are well adapted for ornamenting rock work and edging walks. Hardy perennial. Height 6 inches. Pkt. 5c

GERMAN QUILLED.

Of the same type as the Japanese Needle Asters, this variety is valued particularly for its abundance of fine flowers which it produces. The plant grows from 18 to 20 inches high, bearing often 30 to 40 flowers, which are carried on long graceful stems. Pkt. 10c; ¼ oz. 50c

VICTORIA ASTERS.

One of the best asters for all round use. It grows 15 to 20 inches high, setting numerous and well developed flowers which often measure 4 to 5 inches in diameter.

- Finest Mixed**Pkt. 10c
- Tall varieties mixed,** a fine collection of many sorts.....Pkt. 10c; ¼ oz. 40c

BELL FLOWER. (See Campanula.)

BIGNONIA RADICANS. (Trumpet Vine.) Magnificent, hardy, deciduous climber with brilliant flowers deserving a first place as an ornamental and effective covering for walls of houses, etc. Hardy perennial. Height 20 to 30 feet. Pkt. 10c

BEGONIA. (Tuberous rooted.)

The newer forms of Begonias are among the best brilliantly beautiful flowering plants. The plants will give an abundance of bloom the first year and at the end of the season they may be dried off by withholding water. Plant the bulbs the following spring, when they will bloom more freely than ever.

- Single mixed**Pkt. 20c
- Double mixed**Pkt. 25c

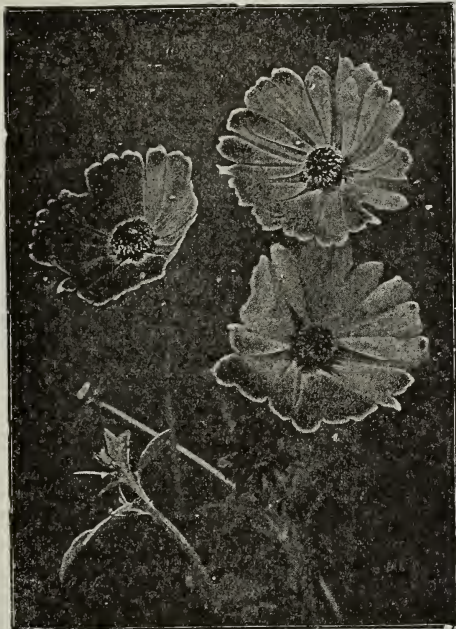
BULBS. (See page 71.)

BACHELOR'S BUTTON. (See *Centaurea cyanus*.)
BALSAM.

Intense cultivation and continuous selections have improved these flowers to such an extent that persons having the old common forms in mind, will hardly recognize the new selected sorts. Require a rich, deep soil, good cultivation and plenty of space to grow to perfection.
Double White Alba Perfecta...Pkt. 10c; oz. 60c
Double mixed.....Pkt. 5c; oz. 35c
Double, Camellia, Mixed.....Oz., 60c; pkt. 10c

BALSAM APPLE AND PEAR (*Momordica*).
Curious rapid climbers. Very ornamental.
Pkt. 5c

BEETS OF ORNAMENTAL FOLIAGE.
A species of Swiss Chard in various colors.
Pkt. 5c; oz. 20c



CALLIOPSIS.
Calliopsis.

A very showy border plant, producing flowers in nearly every shade of yellow, orange, crimson, red and brown. If seed pods are removed as fast as they appear the plants will remain in bloom much longer. Height 2 feet. Hardy annual. Mixed colors. Pkt. 5c

BRACHYCOME IBERIDIFOLIA.
(Swan River Daisy.)

A delicate dwarf growing plant, suitable for growing in grasses, edging, and rustic baskets. The flowers are of various shades of blue and white, with dark and white centers, cineraria-like in form, rather bell-shaped. After blooming, the petals of the flower roll up closely. All colors mixed. Pkt. 5c

BOX WOOD. (*Evergreen Buxus sempervirens*.)

A small evergreen with pale green leaves. Can be trained in desired form by shearing, largely used for bordering flower beds. Hardy perennial. Pkt. 5c

BOSTON IVY. See *Ampelopsis*.

CACALIA COCCINEA. (*Tassel Flower*.)

A pretty annual with flowers of bright scarlet and orange, borne in clusters on slender stalks, about a foot in length. They keep in bloom from early summer until early autumn, furnishing flowers for cutting every day. Height 1 foot. Pkt. 5c

CALCEOLARIA HYBRIDA GRANDIFLORA.

A favorite and universally admired genius, remarkable for their large, beautifully spotted blossoms produced in almost countless variegations of markings. They are grown in pots in the conservatory, greenhouse and garden. Flowers of immense size, seed saved from finest specimens. Pkt. 25c

CALENDULA OFFICINALIS.

This splendid variety has large flowers, beautiful imbricated, resembling in size and form the the finest aster. Each petal of plate straw color, is regularly marked with a stripe of bright deep orange. It blooms profusely with a succession of flowers from July until frost. It comes true from seed, and is one of the best annuals for a garden display. Height 18 inches. Pkt. 5c



CANNA.

Canna.

Stately plant with foliage of elegant growth, presenting a luxurious and tropical appearance, are much employed in ornamental planting; when planted in clumps of 4 or 5 contrasting colors, they are very effective. Height 3 feet. Tender perennial. Mixed colors. Pkt. 5c

Madam Crozier varieties.....Pkt. 5c

For Bulbs, see Bulb list on page 70.

CALIFORNIA POPPY. See *Eschscholtzia*.

Calla Aetheopica.

An old and very desirable plant, either an aquatic or for ornamentation of the drawing room and conservatory. Thrives in any light, rich soil where plentifully watered. Height 1 to 2 feet. Half hardy perennial. Pkt. 10c. For Bulbs, see Bulb list, page 71.



CALLA.

CATCHFLY PLANT.

See *Silene*.

CAMPANULA MEDIUM.

(Bell Flower.)

Campanulas embrace a great many beautiful popular perennials, like the Canterbury Bell, and also a number of annuals of great value for forming masses, as they are neat of habit, hardy and free bloomers. Height 1 foot. Hardy annual. Many varieties mixed. Pkt. 5c

CANARY BIRD FLOWER.

(See *Tropaeolum Canariense*.)

CANDYTUFT. (*Iberis coronaria*.)

All of the colors of Candytuft are desirable for bouquets, especially the white, for its form and fragrance and profusion of bloom. Height 1 foot. Hardy annual.

White Rocket.....Pkt. 5c; oz. 20c

Tom Thumb, Dwarf.....Pkt. 5c; oz. 20c

Many Colors mixed.....Pkt. 5c; oz. 20c

Carnations.

This beautiful and well-known flower produces a finer bloom when grown from seed than when grown from cuttings taken from old plants. This seed will produce a fine variety of colors, with flowers good size and substance. Height 18 inches. Half hardy perennial.

German, mixed colors.
Pkt. 10c

Marguerite, blooms in four months from time of planting.Pkt. 10c

Grenadin, Pink and white.
Pkt. 10c

CASTOR BEANS

(Ricinus.)

A luxuriant expansive foliage plant of tropical appearance, that should have a place in every garden affording the necessary space. The stalks of the plant of this variety are brownish red; the leaves are very large, palmate and strikingly elegant. Height 6 to 10 ft. Tender annual.

Sanguineus, Large red.
Pkt. 5c; oz. 15c

Zanzibariensis, New Zanzibar, a giant large leaved variety.Pkt. 5c; oz. 20c



CENTAUREA CYANUS. (Cornflower.)

Centaurea—(Cornflower.)



MOSCHATA. (Sweet Sultan.)

A handsome annual with fragrant flowers, borne on long, slender stems. Their fragrance and habit of growth adapt them finely for bouquets. In bloom from July until October. Height 2 feet.Pkt. 5c

We have just issued The Barteldes Cook Book. This is a book of 130 pages of very valuable information. See under novelties.

**CENTAUREA—Continued.
CYANUS. (Bachelor Button.)**

The "Kornblume" of our German friends.
A showy annual, of easy culture, flowering freely with great variety of color, in a most common garden soil. Height 2 feet.
Pkt. 5c

CENTAUREA. (Dusty Miller.)

Magnificent foliage plants of silver white and gray foliage, indispensable for borders and edges. Half hardy perennial. Height 1 foot.

Candidissima, mixed.
Pkt. 10c

Gymnocarpa.Pkt. 5c

**CENTAUREA IMPERIALIS
Many colors, mixed.**
Pkt. 10c

White.Pkt. 10c

MARGUERITE.

A sweet scented Centaurea, about as large as a medium-sized Carnation. It is a sport from Centaurea Odorata, and the plants are about 18 inches high. The flowers are beautifully lacinated and produced on long stems; their lasting quality after being cut is remarkable. The beauty of this easily cultivated annual is certain to excite admiration.
Mixed colors.Pkt. 10c



CHRYSANTHEMUM.

Chrysanthemums.

(Early annual.)

The glorious and showy autumn blooming Chrysanthemum, which are now so much admired and cultivated, have their relatives among the summer annuals which are easily raised from seed. The plants can be raised by sowing the seed early in the house or frame and planting them out when the weather is favorable, or the seeds can be sown in an open seed bed, or where the plants are to stand, provided the plants are thinned out to 8 to 12 inches apart. A little shade, or shade in the after part of the day, is desirable for them—a border on the east or northeast side of the house would be desirable. Pinch them back until July 15 to make them grow branching and full.
Mixed colors.Pkt. 5c

Chrysanthemums—Continued

CHRYSANTHEMUM MAXIMUM.

(Large or Oxeyed Daisy.)

A large free blooming hardy perennial, 2 feet high, literally covered with pure white flowers, which are well adapted for cutting, lasting over a week in water.Pkt. 10c

CHRYSANTHEMUM FRUTESCENS.—(Marguerite or Paris Daisy.)—This variety, under the name of Marguerite has attained great popularity among florists. The pretty star shaped white flowers are freely produced and the plant will grow under almost any circumstances. Perennial.Pkt. 10c

Perennial Japanese. For late autumn blooming in the house, after the frost has destroyed all the bright colors in the garden, there is no flower to take the place of this finely shaped, double flower produced in profusion. Height, 18 inches. Double, mixed colors.Pkt. 15c

CLEOME OR SPIDER PLANT.

Better known in the West as "Rocky Mountain Bee Plant." It is the emblem flower of the Colorado State Bee Keepers' Association. Has a very attractive flower in shades of pink and crimson, on tall branching plants. A splendid honey plant.Pkt. 5c; oz. 10c



CLEMATIS.

Clematis.

Well known and universally admired climbers, some of the varieties being remarkable for their beauty and the fragrance of their blossoms. Nice covering for arbors, verandas, etc., as they cling readily to almost any object. Most of the kinds are hardy herbaceous perennials, but some little protection in northern latitudes through winter is advisable. Will do well in any garden soil. Height 15 feet. A fine mixture of varieties.Pkt. 10c

For Clematis plants see under plants.

CINERARIA HYBRIDA GRANDIFLORA.

Very attractive, much admired green house plant; Height 1 to 2 feet.Pkt. 25c

CINERARIA—Maritima Candidissima.

White-leaved; used for bedding, vases, etc. Height, 1 foot.Pkt. 5c

CLARKIA PULCHELLA.

The Clarkia is highly esteemed in Europe, especially in England, where it is as common as the Candytuft. The flowers are very pretty and of many colors double and single. As the plant is apt to suffer in our hot dry summers, it is better to sow the seed in September and the plants will be large enough by spring to make a good bloom. Hardy-annual. Height 1 1/4 inches.Pkt. 5c

COSMOS.

These are unquestionably very handsome flowers, and it is astonishing how very quickly they have become general favorites. Seeds grown in the open ground in the beginning of May will produce blooming plants in August, and they will continue to flower late in the fall.

We offer the following colors: White, pink, crimson, yellow and all colors mixed, ea. Pkt. 5c

CLIMBING BLACKEYED SUSAN.
(See Thunbergia.)

CLIMBING ANNUALS MIXED.

In this we have included all the popular quick growing climbing annuals, such as Ipomoea, Nasturtium, Sweet Peas, Japanese Hops, Cyrene Vine, etc. Just the thing for covering old fences, arbors, etc.Pkt. 10c; 1/2 oz. 25c

COBEA SCANDENS.

A splendid climbing plant, with large purple bell-shaped flowers and elegant tendrils; when well established grows very rapidly, with numerous branches. Height 15 to 20 feet. Tender annual.Pkt. 10c

COLEUS.

Probably there is no other kind of foliage plants so well known and universally admired as the Coleus. It is one of the most beautiful of our variegated perennial foliage plants for the green house or garden decorations, ribbon-beds, etc., of rapid growth and easy culture. Tender perennial. Height 1 to 2 feet. New Hybrid mixed.Pkt. 10c

COLUMBINE. (See Aquilegia.)

CONVALLARIA.

(See Lily of the Valley.)

CUCUMBER, WILD. (Echinocystis Lobata.)

Ornamental climbing cucumbers, with curious fruit, remarkable for its luxuriance and rapidity of growth. Height 15 feet. Hardy annual.Pkt. 5c; oz. 15c; 1/4 lb. 40c



DWARF COCKSCOMB.

Cockscomb.

(*Celosia cristata*.)

A highly ornamental plant, producing crested heads of flowers, somewhat resembling a cock's comb. There are many colors and shapes, but the scarlet and crimson ones are the most brilliant and rich. Height 1 to 2 feet.

- Dwarf, mixed colors.....Pkt. 10c
- Feathered.....Pkt. 10c
- Mixed.....Pkt. 5c

CELOSIA THOMPSONIA MAGNIFICA.

Improved feathered Coxcombes, a recent introduction, and a valuable one. Plants are of regular growth and produce spikes of flowers of the most harmonious color. Can be grown in pots as well as in the open.

- Mixed colors.....Pkt. 15c

Convolvulus Major.

(*Ipomoea purpurea*, Tall Morning Glory.)

This well-known annual is one of the most popular climbers. Of rapid growth, soon covering a fence or trellis with abundant foliage and bright flowers. A great variety of colors and shades. Height 10 ft. Hardy annual.

- Mixed colors. Pkt. 5c; oz. 15c; ¼ lb. 35c.

IMPERIAL JAPANESE

The flowers are of immense size and of strong colors. Soak



TALL MORNING GLORY.

seed before planting. Pkt. 5c; oz. 25c.

Convolvulus Minor.

(Dwarf Morning Glory.)

A trailing procumbent plant with flowers of rich shades in blue in some instances rivaling the pansy in richness of color, finely shaded with yellow and white. In bloom from July until after severe frosts. Height 10 inches. Half hardy annual.....Pkt. 5c

FANCY JAPANESE MORNING GLORY—Fringed.

The perfection of Morning Glories. Immense flowers, often as big as a saucer. The colors, shadings and markings of the flowers are limitless. The foliage is luxuriant, distinct and va-

ried, green, silvery and yellow. The robust vines attain a height of 30 to 40 feet in one season. Soak the seed in luke warm water for a few hours before planting.

- Mixed colors.....Pkt. 1

DOUBLE MORNING GLORY.

The variety of colors is almost limitless, ranging from the darkest reds and purples through all shades of blue, and pink to snow-white. Flowers are streaked, mottled, striped, marbled and bordered in wonderful fashion. They are double and semi-double and some are so much fringed as to have the appearance of a double flower.

- Mixed colors..... Pkt. 1



Coreopsis Lanceolata.

Flowers large, single golden yellow. For generosity of bloom there is nothing to compare with it, and it will bear cutting far better than any other plant; at the same time it is always graceful. It can be sown freely from seed and does well when treated as an annual...Pkt.

CORN FLOWER ASTER.
(See Stokesia.)

Cyclamen.

Well known and universally admired, tuberous rooted plants producing exceedingly handsome red and white flowers. A tender perennial. One foot high. **Persicum**, mixed of great beauty and many colors. Pkt. 15c

Giganteum, mixed, characterized by beautiful foliage and profuse bloom; each flower is from two to two and one-half inches long. Very choice. Pkt. 20c



CYCLAMEN.

Cyclamen bulbs are ready in October. Ask for Bulb Catalogue.



CYPRESS VINE. (Ipomoea Quamoclit.)

One of the most beautiful climbers; fine, delicate cut foliage, dotted with small scarlet flowers. For covering pillars, trellis work, etc., it is unsurpassed in grace and beauty. Height 2 feet. Tender annual. Mixed color...Pkt. 5c

DAHLIAS.

Dahlias are easy of cultivation, growing freely in most any kind of soil from seed in the spring. Height 4 to 5 feet. Half hardy annual. Perennial.
Dahlia. Finest double mixed.....Pkt. 10c
Dahlia. Finest single mixed.....Pkt. 10c
 For Dahlia Bulbs see page 70.

DAHLIA—Hornsveld's Giant Hybrids Mixed.

This new variety will be found one of our best cut flowers for summer use. It has magnificent long stemmed, single and semi-double flowers, of immense size and in a great variety of colors. It will bloom freely the first year from seed, but for best results should be started in a box in the house in February and set outdoors when weather is warm. Pkt. 10c

DOUBLE DAISY. (Bellis perennis.)

Charming little plants for edging and borders. The flowers are quilled and flat petaled, white, red, pink and variegated. Not all will come double from the seed, and the single ones should be pulled out. Height 6 inches. Tender perennial.

Longfellow, pink; Snowball, white; Double, mixed; each.Pkt. 10c

DELPHINUM HYBRIDUM.

(Perennial Larkspur.)

A very attractive hardy plant for corners of a yard, also center of flower beds. We furnish seeds of assorted colors.....Pkt. 10c

DELPHINUM AJACIS.

(Annual Larkspur.)

A fine variety of colors—shades of blue, red and others striped and mottled. The flowers are produced in spikes, which are continually pushing out from the main stem and branches, furnishing abundance of bloom through the season. Height 2 feet.

Double tall, mixed.....Pkt. 5c
Double dwarf, mixed.....Pkt. 5c

DIANTHUS BARBATUS. (Sweet Williams.)

The improved varieties of this popular flower are very beautiful, and should find a place in every garden. A great variety of rich flowers, eyed and variegated with other shades forming large trusses of blossoms, remaining a long time in bloom. A bed of Sweet Williams is very attractive the last of June and the first of July, a time when but few other flowers are in bloom. Hardy perennial. Height 18 inches.

Single mixed.Pkt. 5c
Double mixed.Pkt. 10c



SHASTA DAISIES.

Shasta Daisies.

A wonderful evolution over the original form of the wild Daisy, brought about by the constant selection done by Luther Burbank.

Alaska, pure white; **California,** pale yellow; **Westralia,** cream yellow; each.....Pkt. 15c

OXEYED DAISY. See Chrysanthemum Maximum.

PARIS DAISY. See Chrysanthemum Fruitescens.

DIGITALIS. (Foxglove.)

Showy and useful flowers for the border, flowers borne in tall spikes, bell or thimble shaped of all colors; new plants may be obtained by dividing the roots. Height 2 feet. Hardy perennial. **Mixed colors.....Pkt. 5c**

Dolichos Lablab.

(Hyaclnth Bean.)

Splendid climbers with abundant clustered spikes of purple and white flowers, which are followed by exceedingly ornamental seed pods. It is of rapid growth and often runs 30 feet in a season. Height 10 to 20 feet. Tender annual.Pkt. 5c

EVERLASTING FLOWERS.

Containing all the popular varieties of the "straw flower" class. All kinds mixed..Pkt. 10c

FEVERFEW. (Matricaria capensis.)

A free-flowering, half hardy perennial plant growing 18 inches in height. Seed sown early in the spring in the open ground will produce flowers by fall. The plant throws up numerous stems terminating in clusters of very double pure white flowers three quarters of an inch in diameter. These are desirable for cut flowers. Plants bloom freely when grown in pots in a cool room.Pkt. 10c

FLAX. Scarlet. (See Linum.)

FORGET-ME-NOT. (Myosotis Alpestris.)

This beautiful little flower is too well known to require description or recommendation. The delicate blue flowers appear all summer. Height 6 inches. Hardy perennial.....Pkt. 10c

ESCHSCHOLTZIA.

(California Poppy.)

A flower attractive in foliage, bud and blossom. One of the most attractive flowers grown. Plants procumbent, forming dense bushy masses, with a succession of flowers from June until after severe frosts. When grown with Dwarf Convolvulus contrasts finely with the dark blue. Height 1 foot. Hardy annual.

- Californica**, the original variety.Pkt. 5c
- Early Douglasii**, yellow with golden center.Pkt. 5c
- Mammoth Golden West**, large flowers of orange color shading to yellow at the edge.Pkt. 5c

FOUR O'CLOCK.
See Marvel of Peru.



Fuchsia.

The varieties of Fuchsias are now numbered by hundreds and some are exceedingly beautiful. They are as easily grown from seeds as raised from cuttings, and from seed many improved varieties are obtained. Height 1 to 3 feet. **Double and Single mixed**.Pkt. 25c
Fuchsia Plants.12c each

GILIA.

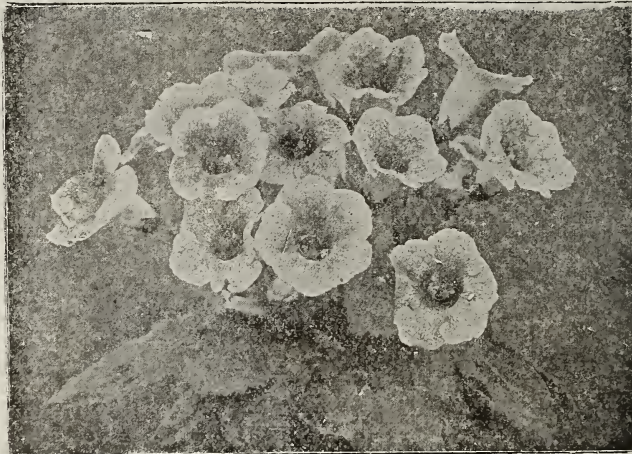
Colors azure and light blue, shaded with yellow and white. Their size, shape and delicate coloring make them useful for bouquets. In bloom from the first of July till after severe frosts have destroyed most of the other annuals. Height 18 inches. Hardy annual, many colors mixed.Pkt. 5c

FUCHSIA.

in every collection of conservatory or parlor plants we are sure to find the Geranium. Propagation by seed is the only way to obtain new varieties. Height 1 to 2 feet. Half hardy perennial. **Single and double mixed**.Pkt. 15c
Geranium plants can be sent by mail. See page 81.

GODETIA.

A beautiful class of flowers; the plants are of neat, dwarf compact habit. They produce a profusion of rich carmine flowers, bearing same continually from August until frost. Height 1 foot. Hardy annual. **mixed**.Pkt. 5c



Gloxinia.

Perennial greenhouse plants producing rich and beautifully colored flowers. They deserve extensive cultivation. **Hybrids mixed**.Pkt. 25c
Gloxinia bulbs are offered page 71.

GOMPHRENA GLOBOSA.

(Globe Amaranth.)

An excellent everlasting or immortelle; flowers globe-shaped purple, orange and variegated. Retain their shape and color when dried; are also good for cutting as fresh flowers. Height 10 in. Tender annual. **Mixed**.Pkt. 5c

GLYCINE SINENSIS. (See Wisteria.)

Gourds.

(Useful as well as ornamental.)

A great variety of curiously formed and marked fruit. The vines are of rapid growth and with luxuriant foliage; adapted for covering screens, arbors, etc. Height 10 to 20 feet. Tender annual.

All kinds mixed.Pkt. 5c; ½ oz. 15c; oz. 25c

DISH CLOTH OR LUFFA.

A rapid climber having long green fruit, the inside of which is a fibrous mass, which, when shelled and seeds removed, makes an excellent substitute for a bath sponge.Pkt. 5c; oz. 10c

HERCULES CLUB.

The longest gourd grown.Pkt. 5c; oz. 25c
Calabash Pipe Gourd—See Novelties.

DIPPER AND SIPHON.
Useful for dipper.Pkt. 5c; oz. 15c

JAPANESE NEST EGG.

White like eggs, does not crack and is not injured by heat or cold.Pkt. 5c; oz. 25c

SUGAR TROUGH.

With thick tough shell and of great durability. Makes dishes and other utensils for various purposes.Pkt. 5c; oz. 20c

GYPSOPHILA. (Baby's Breath.)

Small fragrant flowers, borne on long feathery stems. No flower adds more of light and grace to a bouquet than this, and when once grown will be found indispensable. In bloom through the summer from the first of July until frost. Height 1 foot.

- Paniculata**, pure white, perennial.Pkt. 5c
- Elegans**, delicate pink.Pkt. 5c

HELIANTHUS GLOBOSUS.
(Sunflower.)

An exceedingly double variety of this well known plant, adapted by its stately growth for a background to the lawn or a screen to hide unsightly places. It is also raised as an absorbent of miasma in damp or ill drained situations, thus preventing fevers. The flowers are quite attractive. Hardy annual.

Pistolous Double, Globe or Dahlia Sunflowers. Flowers large, double and of rich saffron color. Pkt. 5c; oz. 10c

Stella, pure golden yellow with black disks... Pkt. 5c; oz. 15c

Orlon, same as above except petals are twisted like a cactus dahlia... Pkt. 10c; oz. 20c

Mammoth Russian.
Pkt. 5c; oz. 10c

HELICHRYSUM MONSTROSUM.

One of the best immortelles; good shape, size and variety of desirable colors—yellow, sulphur, cream, white, pink, rose, red and crimson. Retain their natural shape very perfectly when dried. In bloom from July until destroyed by frosts. Height 18 inches. Hardy annual.

Many varieties mixed.. Pkt. 5c

HELIOTROPE.

A well known popular green house plant, fine for bedding, vases or baskets and exquisite for pot culture in winter. Flowers purple, borne in clusters and exceedingly fragrant. Height 1 foot. Mixed colors. Pkt. 10c

HIBISCUS AFRICANUS.

A showy hardy annual, cream color with rich brown center. Height 2 feet..... Pkt. 5c

Hollyhocks.

(Althea Rosea.)

A great variety of brilliant colors, combining richness and delicacy in a remarkable degree; flowers large and densely double, remaining in bloom for a long time. It is one of the best and most ornamental of the perennials. Height 5 feet. Separate colors, double white, pink, maroon, each. Pkt. 10c
Finest prize mixture of double varieties. Pkt. 10c

HOLLYHOCK ALLEGHENY.

This is a species that will bloom the first year if started in the house in March and transplanted in May. The petals are fringed and the flowers of different colors. Pkt. 10c

HOLLYHOCK ANNUAL.

Will bloom in August or beginning of September if sown in April. Flowers are single, semi-double and double. Mixed colors.

Pkt. 10c



HOLLYHOCKS.

IMPOMOEA QUAMOCLIT. See Cypress Vine.

IPOMOEA MEXICANA. See Moonflower.

INSECT POWDER PLANT. See Pyrethrum.

JAPANESE HOP.

(Humulus japonicus.)

A rapid growing, perfectly hardy, annual climber of the hop family, of the easiest culture and indispensable for covering unsightly objects, or verandas, trellises, etc. Sows itself after the first year. Variegated leaves..... Pkt. 10c

JOB'S TEAR.

(Coix Lachrymae.)

Curious ornamental grass from East India with corn-like leaves and seeds of light slate color, wonderfully lustrous. Valuable for the formation of bouquets, in connection with everlasting flowers and strings of handsome beads are formed from the seeds. Height 3 feet. Hardy annual. Pkt. 5c

LANTANA.

Rapid growing plants; the flowers are borne in Verbena-like heads embracing every shade of pink, purple, orange and white. Half hardy perennial. Height 3 feet. Pkt. 10c

ICE PLANT. (Mesembryanthemum crystallinum.)

Dwarf plant of procumbent or trailing habit, finely adapted for vases, rock work, etc. The surface of the foliage is covered with panicles, resembling crystals of ice glistening in the sun, forming a curious and attractive display. Height 6 inches. Tender annual..... Pkt. 5c

KOCHIA TRICHOPHILA. (Also called Mexican

Burning Bush or Summer Cypress.)

This we consider one of the most ornamental border or hedge plants that has ever been brought out and it is sure to attract attention. The plants branch freely, and the stems are clothed with slender light green leaves. Early in the fall the ends of the shoots are thickly set with small bright scarlet flowers, the bushy plants resembling balls of fire. The plants are equally showy planted singly to show the round ball like forms on all sides or grown in continuous rows..... Pkt. 5c

KUDZU VINE—See Novelties.

LARKSPUR. (See Delphinium.)

LILY OF THE VALLEY. (Convallaria majalis.)

The Lily of the Valley is a sweet little plant, thriving in common soil. It will do well in any shady situation where few other plants will thrive; can be multiplied by dividing roots or seeds. Hardy perennial. Height 1 foot. Pkt. 10c

For Pips see page 74.

LINUM GRANDIFLORUM RUBRUM.

(Scarlet Flax.)

Distinguished for the brilliant colored flowers, which are deep crimson with black centers saucer shaped, and very conspicuous in bed or border. The foliage of the plant is slender and delicate, and the flowers produce very little seed. Height 1½ feet. Hardy annual... Pkt. 5c



MARIGOLD.

Marigold.

(*Tagetes patula nana.*)

A showy plant of compact symmetrical growth, handsome foliage and a profusion of flowers of brilliant colors of yellow and finely variegated and striped with dark rich colors of maroon and brown. Flowers of this variety are about 1 inch in diameter, full double to the center and cover the plant profusely. Height 1 foot. Half hardy annual.

- Dwarf Double, French.....Pkt. 5c
- Dwarf Double, African (*Tagetes erecta nana*)
Pkt. 5c

LOBELIA.

An elegant and useful class of dwarf, plants compact growth, bearing a profusion of delicate flowers. In bloom during summer and autumn. Make a neat and effective border for geranium beds and beds of ornamental plants; pretty for baskets, vases and piazza decorations. Height 6 inches.

Half Hardy annual. Blue Crystal Palace. Pkt. 10c

LOVE IN A MIST. (See *Nigella.*)

MAURANDIA.

This vine is one of the best for window garden and almost equal to smilax in delicate beauty. It is very hardy, blooms profusely and is very easily grown from seeds and roots, from cuttings.Pkt. 10c

MARVEL OF PERU. (*Mariabillis jalapa* or *Four O'clock.*)

A handsome plant for making an attractive display of its many colored flowers from the middle of July until frost. The blossoms are marbled and spotted in the most diversified manner, the same plant producing different colors; some branches will grow flowers of a single color only, while others will have striped or partly colored. The leading colors are red, white and yellow, with stripes and variegations of all three. Height 2 feet. Hardy annual. Pkt. 5c; oz. 15c

MESENBRIANTHEMUM. See Ice Plant.

MEXICAN BURNING BRUSH. See *Kochia.*

MORNING GLORY. See *Convolvulus.*

- MIGNONETTE.** (*Reseda odorata.*)
- Grandiflora, very fragrant, large flowering.Pkt. 5c; oz. 15c
 - Golden Queen, of golden yellow color.Pkt. 5c; oz. 40c
 - Giant White, of tall, pyramidal growth.Pkt. 5c; oz. 40c
 - Giant Matchett is the popular strain used by florists.Pkt. 5c; oz. 40c

MIMOSA PUDICA. (*Sensitive Plant.*)

A curious plant manifesting sensations to the touch of any object that jars or stings the leaves or branches, stalks immediately drooping or folding together, as if possessed with life and an over supply of nerves, affording a source of amusement for the little and large folks. Height 1 foot. Tender annual.Pkt. 5c



MIMULUS.

Mimulus.

These flowers are remarkable for their rich and beautiful markings and spots; well adapted for vases, pots and baskets, and also open culture in the garden. Height 1 foot. Hardy perennial. *Moschatus.* Musk plant.Pkt. 10c

Tigrinus. Monkey flower.Pkt. 10c

MOONFLOWER. (*Ipomoea Mexicana.*)

The true Moonflower is one of the most vigorous of all the summer climbers; a single plant can be made to cover by August 15, a trellis 20 to 30 feet high and six feet broad, with a dense mass of leaves studded every night or cloudy day with hundreds of beautiful white wax like flowers 4 to 6 inches in diameter. Height 30 to 50 feet. Tender annual.Pkt. 10c

MOSS ROSE. See *Portulaca.*

MOURNING BRIDE. See *Scabiosa.*

MYOSOTIS. See *Forget-me-not.*

Nasturtiums.

(See Novelties also.)



CHAMELEON.

Tall Varieties.

(Tropaeolum majus.)

This well known annual is the best for trellis and arbor decoration; flowers of a great variety of rich colors striped and spotted with different shades. Is excellent for vases and baskets; also does finely when grown in beds without trellis support; produces an abundance of flowers from the first of July until frost. Height 6 to 10 feet.

- Coccineum. Bright orange scarlet.
- Heinemanni. Silky bronze chocolate.
- Pearl. Creamy white.
- Regelianum. Brownish violet.
- Schillingi. Bright yellow with maroon blotches.
- Atropureum. Dark crimson.
- Hemisphaericum. Straw color, rosy blotched, fine.
- King Theodore. Crimson, dark leaved.
- Mixed. All colors.

Each of the above.....Pkt. 5c; oz. 15c

NEW FRENCH CHAMELEON. (See illustration.)

This new Nasturtium is a most remarkable advance in this brilliant family. We find that in richness and variety of color it surpasses any other strain, and is also unique in bearing flowers of quite distinct coloring on one and the same plant—some clear, deep crimson, others blotched on light ground and others beautifully mottled. This characteristic as well as wonderful richness of the unusual markings has been fixed in both the tall and dwarf forms.

Pkt. 5c; ½ oz. 15c; oz. 25c

NEMOPHILA.

This popular plant is to be found in almost every garden, and has secured a place in the heart of every lover of flowers. Of dwarf, spreading habit, is well adapted to border or pot culture. The flowers are exquisitely colored, blotched and spotted; they are quite apt to sport an endless variety of shades from black and blue to lighter colors. Height 6 inches. Hardy annual.

Mixed colors.....Pkt. 5c

Nicotiana Affinis.

A handsome genius of garden plants of the tobacco family, which are noted for freedom and fragrance of their bloom. Half hardy annual, 3 feet high. The flowers are white, silver, shaped, and have long tubular corollas. Deserve a place in every garden.....Pkt. 10c

NICOTIANA SANDERAE.

Introduced a few years ago by one of the leading horticultural firms of England, this remarkable novelty has in an incredibly short time won the admiration of the public, both in America and Europe. The shape of the flower resembles that of the Nicotiana Affinis, but the flower tube is short and stout. The greatest beauty of it all is the brilliancy of its carmine-red flowers which are produced in the greatest profusion from early May till the close of autumn. The fragrance is not so pronounced as that of the Nicotiana Affinis but is deliciously sweet. Plant early in spring, same as other hardy plants, and transplant to open ground 2 feet apart when weather is suitable. Pkt. 15c

NEW IVY LEAVED.

This is the most brilliant and showy variety, differing from all other Nasturtiums in both foliage and flower. The plants are of a strong running growth; leaves are deep, rich, green, veined with silvery white, closely resembling in form and veining those of the hardy English Ivy. The flowers are of the deepest and richest glowing scarlet, comparatively small in size, but of most distinct form. It is also desirable as a trailing vine for planting in hanging baskets, vases, or for winter pot culture in the house.

All colors mixed Pkt. 5c; ½ oz. 10c; oz. 15c; 2 oz. 25c

LOBB'S VARIETIES. (Tropaeolum Lobbianum.)

These constitute without doubt some of the finest of our annual climbers; they are as easily grown as the common Tall Nasturtiums which they far surpass in remarkable brilliancy of their flowers, and also in the height of vines and rapidity of growth.

Many colors mixed...Pkt. 5c; ½ oz. 10c; oz. 15c

MADAM GUNTER'S HYBRIDS.

A grand strain of tall growth, containing many colors not found in any other mixture.

Many colors mixed Pkt. 5c; ½ oz. 10c; oz. 15c; 2 oz. 25c

DWARF VARIETIES.

(Tropaeolum majus nanum.)

Dwarf Nasturtiums are very desirable for borders along walks, paths, etc. They are in constant bloom. Grow about a foot high.

- Brilliant. A handsome scarlet.
- King Theodore. Maroon.
- Lady Bird. Orange yellow, red spots.
- Pearl. Creamy white.
- Ruby King. A blue tinted red.
- Empress of India. Dark red, very dark leaved.
- Purpureum. Crimson.
- Spotted Varieties. Mixed.
- Mixed. All colors.

All of the above.....Pkt. 5c; oz. 15c

DWARF FRENCH CHAMELEON.

Same as described above amongst the tall varieties, but of the true dwarf habit.

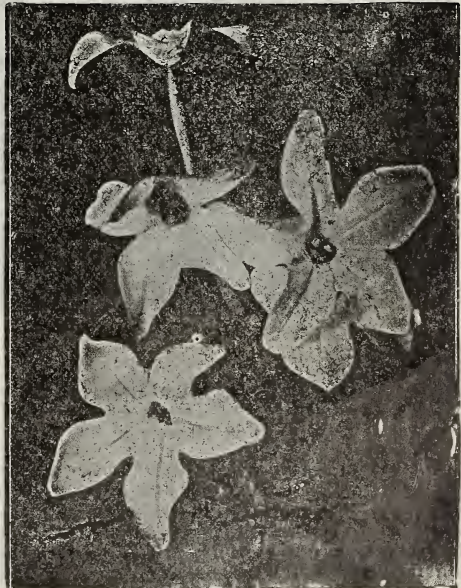
Pkt. 5c; ½ oz. 15c; oz. 25c

Mixed colors of Dwarf Sorts.

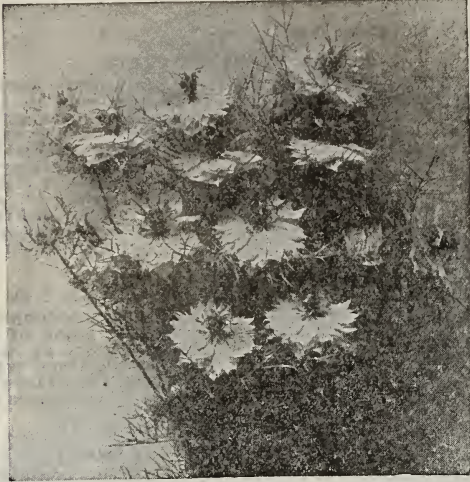
Pkt. 5c; ½ oz. 10c; oz. 15c

Six assorted packets of any of the above varieties of Nasturtiums for 25c; 12 for 40c.

Five 1 oz. packages (except Chameleon and Ivy-leaved) for 50c.



NICOTIANA AFFINIS



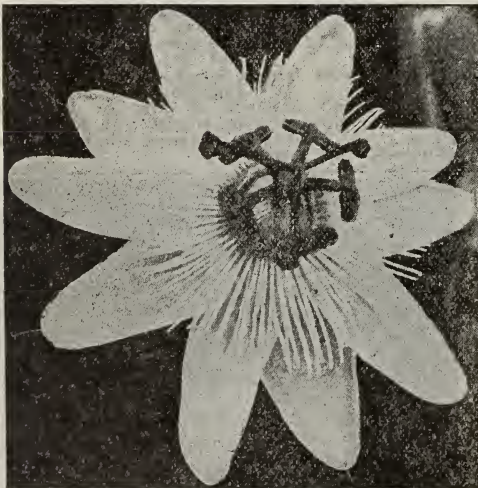
NIGELLA DAMASCENA

Nigella Damascena.

(Love in a Mist.)

A showy annual with finely cut foliage and curiously formed flowers of light blue color. The form and color make them very desirable for bouquets. Height 1 foot.

Mixed colors.Pkt. 5c



PASSIFLORA COERULEA

Passiflora Coerulea.

(Passion Flower.)

A most interesting and well known order of climbers, bearing singularly beautiful flowers. They are the pride of South America and the West Indies, where the woods are filled with their species, climbing from tree to tree, bearing flowers of striking beauty. Pkt. 5c

OXALIS.

Very attractive and beautiful plants, with richly colored flowers, suitable for rock and rustic baskets. Half hardy perennial. Height 6 inches.

Mixed varieties.Pkt. 10c

Oxalis Bulbs are ready in September. Ask for our Bulb Catalog.

Ornamental Grasses.

Ornamental grasses are very useful for cutting, when fresh, for summer bouquets, and also dry well for working with everlasting flowers for winter bouquets. This assortment includes the most delicate and graceful varieties.

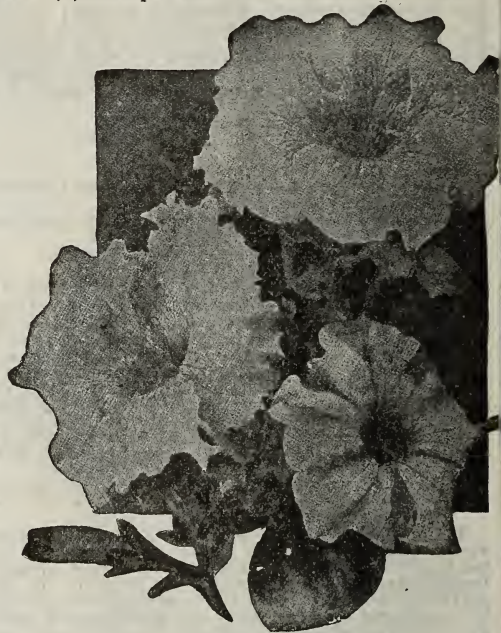
Gynerium argenteum (Pampa Grass), forms elegant plumes of striking appearance. Pkt. 5c

Lagurus ovatus (Hare's Tail), very pretty in bouquets.Pkt. 5c

**Stipa pennata* (Feather Grass).....Pkt. 5c

Many splendid varieties mixed.....Pkt. 10c

Those varieties which are marked with asterisks (*) are perennial.



PETUNIAS

Petunias.

One of the best flowers for a splendid display throughout the season. Beautiful new colors striped and marked in the most diversified manner. The ease and culture, profuse and continuous bloom, adaption for different ways of growing—indoors and in the garden—render the Petunia one of the most valuable of the annual and entitle it to a generous share of the space in every garden. In bloom from July to October.

GIANTS OF CALIFORNIA.

Produce immense large blossoms.....Pkt. 15

Striped and blotched single mixed.....Pkt. 5

Double mixed, saved from the choicest double flowers only.Pkt. 20

Pansies.

(*Viola tricolor maxima.*)

With the exception of the Rose there is no plant which enjoys such universal popularity as does the Pansy. It has a larger range of color than most plants and is a favorite with all. It is a hardy biennial, blooming continuously from spring until fall and if slightly covered will blossom the second year. It is better, however, to resow each year as the flowers the second year are never as fine as the first year. It is very easy to cultivate and no garden, however small, should be without a Pansy bed.



ORCHID FLOWERED PANSIES.

See Novelties,

PANSIES

CASSIER'S NEW GIANT ODIER. Extra large flowers of the showy and popular Odier type, being all three or five spotted on back grounds of rich glowing colors in many distinct shades. Pkt. 15c

BUGNOT'S VERY LARGE STRAIN MIXED. An extra large five blotched race; plants vigorous, with short stalks, bearing well above the foliage, immense flowers of fine form and substances. Extra fine. Pkt. 15c

GERMAN IMPERIAL MIXTURE. While the giant flowered are great favorites, they do not carry all shades and colors which are found in our German mixtures. This is the florists' popular strain. Mixed, a fine assortment Pkt. 10c; 3 pkts. 25c; ½ oz. 75c

Good Mixed, consisting of many popular colors of ordinary strains.....Pkt. 5c; oz. 50c

TRIMARDEAU. (Giant Pansies.)

- White, with dark centers.
 - Black, King of the Blacks.
 - Yellow, a beautiful clear color.
 - Blue, azure blue.
 - Purple, deep, royal purple.
 - Bronze, a fine golden bronze.
 - Mixed, many colors.
- Each of the above 10c per pkt., the whole collection of seven for 50 cents.

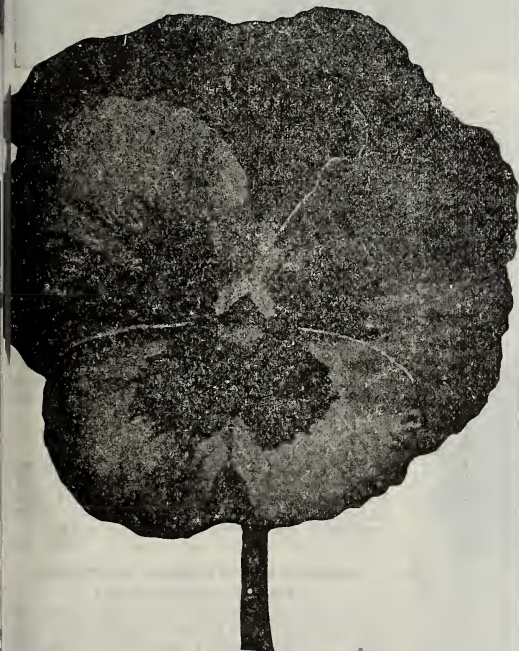
SWEET SCENTED.

This lovely new class is the result of a hybridization of the Pansy and the Sweet Violet, retaining the delightful perfume with Pansy bloom 2 inches in diameter, of good substance and in many colors. They include pure white, yellow, black, maroon, orange and lavender, also striped, blotched, etc. Pkt. 15c

PASSION FLOWER. See page 62.
PETUNIAS. See page 62.

Pansy Plants.

Some people have neither the time nor inclination to raise Pansies from seed. We can furnish the large flowered Pansy plants in the spring at 40 cents per dozen postpaid.



Barteldes Giant Market Pansies.

The imposing five-spotted flowers are from 2½ to 3 inches in diameter, perfectly round in form and borne on long graceful stems, a decided advantage over the old short stemmed sorts. The plants are of compact form, building perfectly round bushes, with strikingly pretty foliage. The beauty of these plants is in their being covered over with flowers of brilliant and rich colors, cannot be surpassed by any other dwarf growing annual. Pkt. 15c

Phlox Drummondii.

No flower excels this in all the qualities that make it a popular annual. The flowers are brilliant and of varied colors; it blooms profusely and continuously; is one of the last to succumb to the frosts of late October, and is excellent for bouquets. Taking everything into consideration, it should certainly be placed in the light of the half dozen best flowers for garden decoration. Height 18 inches.

Mixed. Pkt. 5c; oz. 60c

PHLOX DRUMMONDI GRANDIFLORA.

Extra large flowering.

Alba, White. Pkt. 10c; oz. \$1.00

Star of Quedlinburg. Star-shaped flowers. Pkt. 10c

Mixed. Pkt. 10c; oz. 80c

PHLOX DECUSSATA.

Perennial Phlox. Pkt. 10c

Pinks.

(Dianthus.)

Splendid large flowers of the most brilliant colors and markings; constantly in bloom from July until after severe frosts the first and also the second year. No flower exceeds this genus for a brilliant show of colors through the summer. Height 1 foot.

Chinensis (double China), mixed, Pkt. 5c; ¼ oz. 15c; oz. 50c

Lactinatus (double Imperial), mixed, Pkt. 5c; oz. 50c

Imperialis (double fringed), mixed, Pkt. 5c; ¼ oz. 25c; oz. 50c

Heddewigil (single), mixed. Oz., 75c; pkt., 5c

Heddewigil (double Heddewigil), mixed, Pkt. 5c; oz. \$1.00

Albus Flore Pleno (double white). Pkt. 5c

Dianthus Plumarius (perpetual), June Pink, Clove or Grass Pink, hardy and fine for old-fashioned gardens. Pkt. 5c

Hardy Garden Pinks. Pkts. 12c ea., 3 for 30c



HARDY GARDEN PINKS

Poppy.

(Papaver.)

A well known flower of great profusion. Single and double mixed, a grand collection of annual varieties. Pkt. 5c; oz. 20c

FAIRY POPPIES.

The flowers are perfectly double, of large size and magnificent form. In colors the grand large flowers are pure white, glowing scarlet, light lilac, scarlet with white and black, rose and deep maroon. Double mixed. Pkt. 5c

THE SHIRLEY POPPIES.

(Papaver Rhaeas.)

They are similar in every way to the wild scarlet Field Poppy of England and the continent, but the range of colors is so varied that scarcely two will be found alike. Pkt. 5c

ORIENTAL HYBRID POPPIES.

(Papaver Orientale.)

For brilliancy of coloring there is nothing to equal these Oriental Poppies. The flowers are of enormous size, often measuring over six inches in diameter, while the colors range from soft flesh and rose to the most brilliant, dazzling scarlet, and richest maroon purple. Their culture is simple as that of the common Garden Poppy. One of their most valuable properties is that they are perfectly hardy perennials, increasing in size and beauty from year to year. Pkt. 10c

POPPY EMPRESS OF INDIA.

This beautiful new Poppy produces large single flowers of glistening white with a small band of scarlet around the top. Price 5c.



ORIENTAL POPPY

ICELAND POPPIES. (Papaver Nudicaule.)

The delicate, fragrant flowers are exceedingly beautiful, and with their long stems are suitable for cutting. The plants are perfectly hardy, easily cultivated, and the lovely flowers are in bloom from early summer until fall. Hardy perennial, blooming the first year from seed.Pkt. 10c

PORTULACA GRANDIFLORA. (Moss Rose.)

There are scarcely any flowers in cultivation that make such a dazzling display of beauty as a bed of many-hued, brilliant-colored Portulacas. They are in full bloom from about the first of July till killed by frost in the autumn. Plant in open ground after it has become warm in light soil and in a dry situation. After the plant appears withhold water, and if the plants have full exposure to the sun the ground will be covered with the plants and the effect will be beautiful. Tender annual. Height 9 inches.

Double Rose, mixed.Pkt. 10c
Single. All colors mixed.Pkt. 5c

PRIMROSE. (Primula.)

These are perhaps the most desirable of all house plants. They are in almost constant bloom all winter, and if the plants be transferred to the border they will bloom nearly all summer. Though perennial, few plants flower more continually and seed should be sown every year. Give them a long time for growth before flowering, and do not force the young plants, but simply protect them from frost and damp and cutting winds. Height 9 inches.

Albionica.Pkt. 10c
Glenensis, mixed.Pkt. 15c

PYRETHRUM. (Insect Powder Plant.)

Practical entomologists have long been looking for some effective, safe and cheap insecticide, and now tell us they have found it in the Persian insect powder. This is the dried and powdered flowers of the Pyrethrum Roseum and it is certain death to plant lice, flies, cabbage worms and nearly every form of insect life. It is harmless to man, but when diluted with ten times its bulk of flour kills every cabbage worm or other insect it touches. Height 1 foot.

Pyrethrum Roseum.Pkt. 10c

Pyrethrum Aureum.—This is the beautiful bedding plant with golden leaves called "Golden Feather."Pkt. 10c

RAGGED SAILOR.

See Centaurea Cyanus.

RESEDA ODORATA.

See Mignonette.

RICINUS.

See Castor Beans.

NEW DWARF ROSE.

(Rosa Polyantha Multiflora.)

Height 20 inches. This variety comes to us from France. The rose commences blooming when about eight inches high; like annuals, they germinate, flower and produce seed within the first year. Their bloom is continuous throughout the summer, but is naturally more abundant the second season. The flowers are single, semi-double and double in almost equal proportions and present most all the variations found in other roses. A young plant raised from seed sown expands its first flowers in 3 months.Pkt. 15c

SALPIGLOSSIS.

A beautiful annual that deserves to be more widely known; when once grown in the garden, will be one of the first to be chosen for the next year. Flowers of the richest colors, blue, crimson, yellow, purple, scarlet, etc., with texture like rich velvet, each petal beautifully penciled. Splendid for bouquets. Height 2 feet.Pkt. 5c
Mixed colors, Pkt. 5c

SCABIOSA ATROPURPUREA.

(Mourning Bride.)

One of the best flowers for bouquets; plants of dwarf habit and compact, the flowers borne upon long, wiry stems. A great variety of colors from white to very dark purple—almost black. In bloom from August till after severe frosts. Height 18 inches. Tender perennial. Mixed colors, Pkt. 5c



Salvia Splendens.

(Scarlet Sage.)

The Salvia, or Flowering Sage, is a very ornamental plant, flowering in spikes and continues in bloom until frost in the open ground, when the plant can be removed to the greenhouse and will continue in bloom a long time. This variety is of the dwarf habit, and the spikes of flowers are not so large as some of the greenhouse sorts. Height 1½ feet. Tender annual.Pkt. 5c

SCHIZANTHUS.

This annual should be more widely cultivated. Flowers different shades of blue, curiously cut and delicately spotted; laced with crimson, white and yellow, etc. Adapted for garden and indoor culture. Excellent for bouquets. Height 18 inches. Mixed colors, Pkt. 5c

SENSITIVE PLANT.

See Mimosa Pudica.

SILENE ARMERIA. (Catchfly Plant.)

A showy, free-flowering plant, with bright, dense heads of flowers growing well in common garden soil. Adapted for border, circular beds and ribbons. Height 18 inches. Hardy annual.Pkt. 5c

SMILAX. (Myrsiphyllum Asparagoides.)

No climbing plant in cultivation surpasses this for graceful beauty of its foliage. In cut flowers and for wreaths, etc., it is indispensable to florists. Height 10 inches. Tender annual.Pkt. 10c; oz. 50c

STOKESIA CYANEA. (Corn Flower Aster.)

This is one of the most charming and beautiful native hardy plants. The plant grows from 18 to 20 inches high bearing freely from early July until frost. Its handsome lavender-blue Centaurea like blossoms measuring from four to five inches across. We do not hesitate to state that Stokesia is one of the most valuable and desirable hardy plants offered.Pkt. 10c

- Sunflowers.** (See Helianthus.)
- Swan River Daisy.** (See Brachycome.)
- Sweet Sultan.** (See Centaurea Moschata.)
- Sweet Williams.** (See Dianthus Barbatus.)

Ten Weeks Stocks.

(Cherianthus Matthiola.)
Cut and Come Again.

Plants grow about one foot high, making a compact bush covered with splendid spikes; in bloom from July till frost. This seed is of our own importation from the most celebrated German growers of these flowers, saved only from the selected pot plants, and will produce the largest proportion possible of large double flowers, in the most brilliant colors and varieties. Half hardy annual. Height 1 foot.

- Dwarf German Double, mixed colors,** Pkt. 10c; ¼ oz. 75c
- Single, mixed.** Pkt. 10c; ¼ oz 60c

BROMPTON STOCK.

The Brompton Stock cannot endure our winter, but if plants are grown in the open ground during the summer, in autumn they can be removed to the house, where they will flower well if not kept too hot or dry. Half-hardy annual. Height, 1 foot.

- Mixed.** Pkt. 10c
- White.** Pkt. 10c



TEN WEEKS STOCKS

TASSEL FLOWER.

See *Caecalia*.

THUNBERGIA ALATUM.

(Climbing Blackeyed Susan.)

A trailing or climbing plant with flowers of various shades of yellow and white, having a dark center, or eyes. Particularly adapted for vases or hanging baskets, for plaza decorations, etc. Height 4 feet. Pkt. 10c

VERBENA.

The most popular bedding plant grown from seed. The fine varieties of colors with stripes and markings of different shades, profuse and long continued bloom, and excellent for bouquets, making them one of the most desirable annuals in the catalog for general culture. Grown from the seeds, the plants will bloom more profusely than those produced from cuttings.

- Mammoth Verbenas** in the following colors: White, pink, purple, blue, scarlet, each. Pkt. 10c
- Mixed colors.** Pkt. 5c; ¼ oz. 25c; oz. 75c

TROPAEOLUM CANARIENSE.

(Canary Bird Flower.)

One of the best climbing plants, with graceful foliage of a delicate green shade with small yellow flowers which, when half expanded, have in shape a fanciful resemblance to canary birds. Height 8 feet. Half hardy annual. Pkt. 10c



VIOLETS

VIOLET. (*Viola Odorata*.)

The violet should not be wanting in any garden on account of its fragrance and early appearance. A single flower will perfume the whole room. Succeeds best in a shady place, and can easily be increased by dividing the roots. The violet is an emblem of faithfulness. Hardy perennial. Height 4 inches. Pkt. 10c

WILD GARDEN FLOWER. A mixture of all Kinds of Flower Seeds.

Anyone who has planted and cultivated flowers in neatly laid out beds and borders is aware of the labor and constant care and attention required to produce the desired effect. To those who cannot give it this care, "The Wild Flower Garden" presents a substitute which for its unusual and varied cheapness, and the small amount of labor necessary for its construction, has no equal. The seeds we offer for the "Wild Flower Garden" are a mixture of over 150 different varieties, and being mixed, can be offered at a much cheaper price than when sold in separate packages. No one not having such a bed can form an idea of its beauty, the different seasons of bloom insuring something new almost every day. Large pkt. 10c; ¼ oz. 15c; ½ oz. 25c

VENUS' LOOKING GLASS—Campanula Speculum.

A small genus of hardy annuals with purplish-lilac flowers varying to rose-colored and white. They grow rapidly and are in bloom the whole summer. Pkt. 5c

VINCA.

If seed is sown early the plants will bloom the first summer. They can be taken up in the fall and kept in the house throughout the winter. Mixed colors, pkt. 5c

WALL FLOWER. (Cherlanthus Cherri fl pl.)

The massive spikes of the Wall Flower are very conspicuous in beds and borders, and are very useful in making bouquets. They are deliciously fragrant, perfectly double and combine many shades of color—the orange, purple and chocolate predominating. Height 18 inches. Tender perennial.

Double, mixed. Pkt. 10c
Single, mixed. Pkt. 5c

WHITLAVA GRANDI-FLORA.

An elegant annual with delicate foliage and a drooping cluster of rich dark blue and white bell-shaped flowers. Is fine for baskets and vases, and for piazza decoration is one of the best, flourishing well in partly shaded situation. Height 1 foot. Pkt. 10c

WISTARIA VINES.

(Glycine Sinensis.)

One of the quickest growing climbers, of fine, bright foliage, producing bunches of rose lilac flowers in great abundance during spring. If once started, it will live for years. Hardy perennial. Height 20 feet. Pkt. 10c

XERANTHEMUM.

A popular flower of the immortal class, blooming freely in common soil. Plant is of compact habit with flowers borne on long stems. Colors: white, purple, yellow and light blue. Hardy annual. Height 1 foot.

Mixed. Pkt. 5c



**Zinnia Elegans
Flore Pleno.**

Very few flowers have such a long period of popularity as has this old-fashioned Zinnia.

Fine, large flowers, of great variety of colors—red, rose, crimson, scarlet, purple, orange, white and yellow; the flowers are full double as a Dahlia, remaining in bloom from July till after frost. Make a dense hedge, covered with bloom. Height 2 feet. Half hardy annual.

Double Variety Mixed.

This is made up of the best and showiest double varieties. Pkt. 5c

New Zebra. Striped like the animals of distant lands, the name of which it has. Pkt. 10c

ZINNIA ELEGANS, DOUBLE.

NEW MINIATURE ZINNIA.

The most dainty and ornamental miniature Zinnia in existence. It is of truly Lilliputian growth, the plants growing from 3 to 4 inches in height only. At the same time these pretty little plants display a perfection in leaves, flowers and growth generally, not often met with in this class of the Zinnia.

The mixture which we offer to our customers this year contains all the popular colors that can be found amongst the tall Zinnias, and the profusion of the blossoms make it an exceedingly showy variety in every garden.

Indispensable for borders around small flower beds, where larger plants would spoil symmetrical forms. The plants themselves are splendidly adapted for bedding purposes, as they stand transplanting readily, and when in bloom some beautiful beds of finest color combinations can be created.

Mixed colors. Pkt. 10c

Specials.

Include at least one of these in your order. It is money well spent.

MIXED CLIMBERS.

Includes Nasturtiums, Sweet Peas, Japanese Hops, Cypress Vine, etc., just what you want to cover an old fence, stumps, trellises, etc. Pkt. 10c; ½ oz. 25c

EVERLASTING FLOWERS MIXED.

All the popular Everlastings. You cut them when in bloom, and they keep all winter. Pkt. 10c

NASTURTIIUMS.

We give 6 packets of any kind for 25c; 12 packets for 40c. Your choice from page 60.

PANSIES.

Seven of the finest giant flowered Pansies, one packet each for only 50c.

SWEET PEAS.

Six separate packets for 25c; 12 packets for 40c; three 1-ounce packages for 25c. Your choice from pages 66 and 67.

Don't miss our offer of plants, including Roses, Ferns, Carnations, Geraniums, etc.

SUMMER FLOWERING BULBS.

Order a few Gladiola, Tuberoses or Caladiums and you'll not regret it. Every August we issue a Fall Bulb Catalog. If you have not been receiving it, write for it next fall and set out a few Hyacinths and Tulips.

Sweet Peas.

We are headquarters for strictly high grade Sweet Pea Seed. Our growers give special attention to selecting and cleaning. We have orders from all parts of the United States for our select strains, which are furnished at prices within the reach of all and as low as the ordinary stock are priced by many.

CULTURE. Sweet Pea delights in a soil inclined to be clayey, and, as the little beauty is gross feeder, a good supply of well-rotted manure should be mixed with the ground. Fall is the best season to prepare the soil. A good many failures are caused by manuring in the spring, for the reason that all pea vines like a moist ground, and the heat originated by the manure combined with the heat from the sun is too much for the young vines, which turn yellow and die. The best season to sow the seed is as soon in the spring as the ground can be worked. Late sowing produces rank growth, but few flowers. Dig a trench a foot deep by 16 or 18 inches wide and mix in it 6 inches of top soil with old manure. In this plant your seed in two rows, dropping one every inch or two; then cover with two inches of soil, gradually filling the trench as they grow. One side has to be a little lower to allow the surplus water to drain off. The flowers must be picked every day if you want them to bloom through the summer. Bone dust and a nitrate of soda will hasten the time of flowering.

Sweet Peas Up to Date, by Hutchins. A complete treatise on Sweet Pea culture. 10 cent postpaid.

	Pkt.	½ Oz.	Oz.
Black Knight Spencer. The flowers are very dark color and beautifully waved and crinkled, both standard and wings. The stems are thick and long and carry well either three or four fine blossoms.	\$.05	\$.20	\$.30
Captain of the Blues Spencer. The flowers are of immense size and always well waved and crinkled. The standard is purplish maroon, the wings bluish purple, showing veins of rosy purple. . . . .	.05	.20	.30
King Edward Spencer. The enormous flowers are uniformly waved and crinkled to a pronounced degree. The unusually large drooping wings—one and three-eighths inches wide—make the flower appear truly gigantic. The color is dark red and is the nearest approach in color to the popular King Edward VII. . . . .	.05	.20	.30
Gaiety Spencer. A fine flower striped with rosy magenta, usually three flowers on a stem. This is a decidedly bright and pleasing variety. . . . .	.05	.20	.30
Mrs. Routzahn Spencer. It is of immense size, wavy edges, and its long stout stems bear uniformly four blossoms. The color is a beautiful blending of soft straw color, tinted with bluish pink and shading to apricot and rose at the edges. . . . .	.05	.20	.30
Princess Alice Spencer. A lovely shade of lavender, strong, vigorous grower, three and four flowers on a stem. The least sportive and best one of this color yet produced. . . . .	.05	.20	.30
Othello Spencer. Flowers very deep maroon, very large and wavy with drooping wings. It is a strong growing and free blooming plant. . . . .	.05	.20	.30
John Ingman. Rich magenta rose. . . . .	.05	.15	.25
Helen Lewis. Intense rich crimson orange. The flowers are truly of a gigantic size. . . . .	.05	.15	.25
E. J. Castle. Rich carmine rose with salmon shading in the standard. . . . .	.05	.15	.25
Primrose Spencer. The flowers are well placed, three to four on strong, thick stems. The color is a pronounced primrose or creamy yellow throughout both standard and wings. It is equal in richness of color to The Hon. Mrs. E. Kenyon, which it outranks both in form and size. . . . .	.05	.20	.30
White Spencer. The white flowers are extremely large and beautiful. The bold standard is crinkled and fluted and its wavy leaves are so folded that the keel is almost hidden. The flowers are borne three and four to the stem and are uniformly well placed. . . . .	.05	.15	.25
Countess Spencer Hybrids. Strong and vigorous growers in various colors. . . . .	.05	.10	.20
Apple Blossom Spencer. Very large, standard very bright rose, wings primrose with a flush of rose tint. . . . .	.05	.15	.25
Dainty Spencer. White with rose-pink edges. . . . .	.05	.20	.30
Duplex Spencer. Large, wavy, cream pink with double or duplex standards. . . . .	.10	.35	.60
Mrs. C. W. Breadmore. Rose-pink margined on a ground of primrose. . . . .	.05	.20	.30
Senator Spencer. Chocolate and seal brown striped, flaked and mottled on ivory white. . . . .	.05	.20	.30
Asta Ohn. Soft pinkish lavender self. Very large and wavy. . . . .	.05	.20	.30
Clara Curtis. Very large, wavy cream or light primrose. . . . .	.05	.20	.35
Geo. Herbert. A large Spencer, rose-crimson suffused with magenta. . . . .	.05	.20	.30
Maud Holmes. Mammoth, wavy, brilliant red. . . . .	.05	.25	.40
Mrs. Hugh Dickinson. Buff, apricot and rose. . . . .	.05	.25	.40
Elfrida Pearson. Light pink or white, edged and shaded. . . . .	.10	.35	.60
Thomas Stevenson. Giant flame-colored Spencer. . . . .	.10	.35	.60
Nubian Spencer. Largest and deepest maroon. . . . .	.10	.35	.60
Gladys Unwin. A bold flower of a lovely light pink color. . . . .	.05	.10	.20
Nora Unwin. This charming variety takes its place easily in the front rank of pure white, the flower being bold and wavy. . . . .	.05	.10	.20

Sweet Peas—Standard Varieties

PRICES: 5c per packet; 6 packets for 25c. 10c per ounce; ¼ lb., 35c; 1 lb., \$1.10. Postpaid, unless notated.

Varieties marked (*) are considered best of their class.

WHITE.

- Emily Henderson. A persistent bloomer.
- *Blanche Burpee. A splendid pure white variety.
- Sadie Burpee. Hooded form.
- Montblanc. Earliest and best for forcing.
- *Dorothy Eckford. The largest and best flower.

SCARLET.

- *King Edward VII. The best of all red shades; large, bright scarlet.
- Salopian. Very bright scarlet with large flower.
- Mars. A large and well formed flower.
- *Queen Alexandra. Bright scarlet, medium large flowers, holding its color well. Semi-hooded form.

PINK.

- Lady Marie Currie. Fine orange pink, of intense color, splendid for cutting.
- *Janet Scott. Soft pink, large hooded flowers.
- *Miss Wilmott. Large orange pink flowers, strong and vigorous.
- Katherine Tracy. A soft but brilliant pink.
- Lovely. A delicate shell tinged with yellow, often 4 flowers on a stem.
- Apple Blossom. Bright rose and pink.
- Prima Donna. A lovely shade of soft pink, very vigorous, usually 4 blossoms to a stem.
- Modesty. White with a tint of pink on the edges.
- *Henry Eckford. Almost a clear orange, medium large; open form. It is liable to burn in the sun and should be protected for finest blossoms.

MAROON.

- *Othello. Deep maroon and of a rich velvety effect.
- Black Knight. Very deep maroon, an improvement on Boreatton.
- *Midnight. Deep violet maroon self-colored. One of the very darkest, almost black; hooded form.

YELLOW.

- *Hon. Mrs. E. Kenyon. A fine, large, clear primrose.
- Mrs. Eckford. Beautiful shade of light primrose. Very vigorous grower.

PINK AND WHITE.

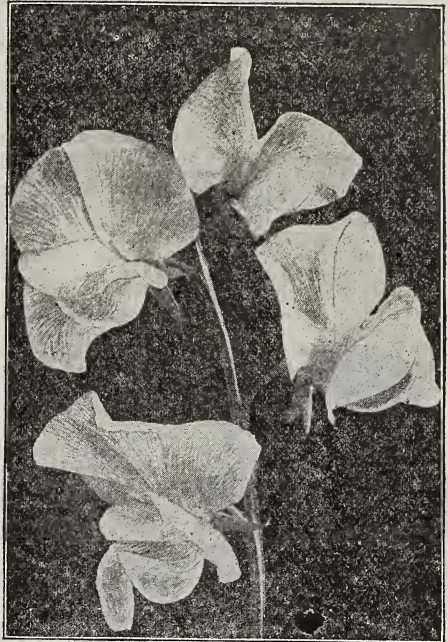
- *Earliest of All. This is the standard among florists, as it has no rival for forcing.
- Early Blanche Ferry. A good bloomer.

ROSE.

- *Prince of Wales. Deep rose, beautifully hooded; an improved Her Majesty.
- Her Majesty. Large hooded flowers.
- *Lord Roseberry. Bright magenta rose with veins of deeper shade; large size and hooded form.

VARIEGATED AND STRIPED.

- *Helen Pierce. Blue mottled on pure white.
- America. Scarlet, striped on white. Large open flowers.
- Gray Friar. Watered purple on white ground.
- *Maid of Honor. Flowers white shaded at top with lilac and lavender; hooded form.



LAVENDER AND LIGHT BLUE.

- New Countess. Delicate lavender.
- *Lady Grisel Hamilton. Very large flower with long stems, standard lavender, wings azure blue.
- *Lottie Eckford. Silvery white shaded with lavender.
- Dorothy Tennant. Rosy purple, large size.
- *Romolo Piazzani. Improved Dorothy Tennant. A fine, large variety.

BLUE AND PURPLE.

- Captain of the Blues. Bright purple hue.
- Countess of Cadogan. Flowers open a purple, but soon change to a lilac and then to a blue.
- *Navy Blue. The large flowers are of a rich violet purple with the effects of a dark navy blue.
- *Flora Norton. Bright, clear blue with tint of purple; open form.
- *Lord Nelson. A very dark strain of navy blue. Pkt., 5c; oz., 20c; ¼ lb., 50c.
- *Mrs. Walter Wright. Rosy purple, self-colored, large shell shaped. Pkt., 5c; oz., 20c; ¼ lb., 50c.

Sweet Peas in Mixtures

OUR "COLUMBINE" GRADE (MIXED). Nothing better in mixture of varieties and should not be compared with ordinary mixtures on the market. We mix in all our choice varieties. Oz., 10c; ¼ lb., 35c; lb., \$1.10.

LIGHT COLORS ONLY. Mixed from named varieties. Oz., 10c; ¼ lb., 35c. Pkt., 5c.

RED, WHITE AND BLUE MIXTURE. Consists of Salopian, Blanche Burpee and Navy Blue mixture. Try an ounce at least. Oz., 10c; ¼ lb., 35c. Pkt., 5c.

ECKFORD'S FINE MIXED. Oz., 10c; ¼ lb., 30c; lb., 90c. Pkt., 5c.

DWARF SWEET PEAS—Cupid.

Ten inches high. A dwarf variety that is suitable for pot culture, hanging baskets, etc. Blossoms are smaller than ordinary tall varieties. Oz., 10c; pkt., 5c.

White Cupid. Pure white blossoms.

Pink Cupid. Clear soft pink standard, white wings.

Mixed Cupid. Contains many colors.

BUSH SWEET PEAS.

(Mixed.)

A distinct type of bush habit (not dwarf like Cupid) with blossoms much the same as tall varieties but shorter stems. Oz., 10c; 4 oz., 35c; pkt., 5c.

DOUBLE SWEET PEAS.

It has been a difficult task by hybridization and selection to change the habit of the Sweet Pea to the double form, and much remains to be done. The result at best is really semi-double flowers. The best varieties we have will not produce more than half-doubles, the others remaining of the usual single type. We furnish them mixed. Oz., 10c; 4 oz., 35c; pkt., 5c.

EVERLASTING PEAS.

A perennial climber, producing a succession of white, rose and purple blossoms in clusters. Suitable for trellises, arbors, etc. Hardy perennial. Height, 10 feet. Mixed. Oz., 35c; pkt., 5c.



SUMMER FLOWERING BULBS

In planting beds always begin by outside row and leave a space between plants and edge of bed of half the distance plants are to be set apart in the bed. If plants are to be set 6 inches apart leave a space 3 inches wide. Square beds will require same number of bulbs or plants as circular beds if its diameter is same length as one side of the square. To find out number of plants needed for an oval bed measure the length and breadth; divide the total by 2, and this will give you the diameter of a circular bed. $6+10=16\div 2=8$ ft. Find out in the following table the number of plants required for a bed of 8 ft. diameter at 6 or 12 inches apart, and that will give you number of plants required for your oval bed 6 by 10 ft.

NUMBER OF PLANTS FOR CIRCULAR BEDS:

3 ft. diameter, 6 inches apart.....	28 plants	10 ft. diameter, 6 inches apart.....	320 plants
3 ft. diameter, 12 inches apart.....	7 plants	10 ft. diameter, 12 inches apart.....	80 plants
5 ft. diameter, 6 inches apart.....	80 plants	10 ft. diameter, 18 inches apart.....	36 plants
5 ft. diameter, 12 inches apart.....	20 plants	10 ft. diameter, 24 inches apart.....	20 plants
6 ft. diameter, 6 inches apart.....	112 plants	14 ft. diameter, 6 inches apart.....	612 plants
6 ft. diameter, 12 inches apart.....	28 plants	14 ft. diameter, 12 inches apart.....	153 plants
8 ft. diameter, 6 inches apart.....	200 plants	14 ft. diameter, 18 inches apart.....	68 plants
8 ft. diameter, 12 inches apart.....	50 plants	14 ft. diameter, 24 inches apart.....	39 plants

AMARYLLIS.

Beautiful flowering bulbs of easy culture and very ornamental. Good for indoor or outdoor culture. Bulbs should be taken up in the fall if planted outdoors.

Johnsonii. An old favorite, producing immense trumpet shaped crimson flowers, each petal of which bears a broad white stripe. Extra large bulbs, 40c each; three for \$1.00

Formosissima. Jacobean Lily. Crimson, blooming early in summer. Each, 15c; 3 for 40c.



AMARYLLIS.

Belladonna Major. Mixed. The best for forcing. Large bulbs, 25c each; 3 for 60c.

CALADIUMS.

Perhaps better known as Elephant's Ear. A very effective plant for outdoor planting, where a tropical appearance is desired. The leaves often attain a length of 3 feet and 1½ feet wide. With a little care they grow to enormous proportions. Good bulbs, 15c; 3 for 40c.



CALADIUM.

Cannas

A round bed 7 feet in diameter, requires 19 plants and one of 10 feet requires 36 plants.

The Cannas are among the most beautiful bedding plants. They have long been great favorites, but since the introduction of many new varieties their value has been greatly increased by adding to the already attractive foliage large flowers of the most brilliant colors, so that they are now indispensable. No plant is better adapted to our climate, and nothing costing so little excels them for masses of beautiful foliage, as well as the abundance of dazzling blooms in many shades. Plant outdoors about the middle of May if weather is warm and settled, setting the plants 18 inches apart each way, and the tallest varieties in center of bed. Do not water too freely until well started, then they should have an abundance.

Prices, 15c each, 2 for 25c; the full collection \$1.40. Height 3 to 6 feet.

Burbank. Orchid flowered, yellow with crimson spots, green foliage.

West Grove. Moderate large flowers; but large truss of a pure coral pink; green foliage.

Shenandoah. Large salmon colored flowers, bronze foliage.

Moonlight. Large number of small flowers in a truss and a creamy white; strong grower; green foliage. Height 5 to 6 feet.

Louisiana. Orchid flowered, often 6 and 7 inches across; color vivid crimson. A strong grower and prolific bloomer; green foliage.

Indiana. Orchid flowered of great size; color velvety fiery orange; green foliage. Height 5 to 6 feet.

Flambeau. Flowers a glowing fiery vermilion orange edged with golden yellow, often measuring 7 inches across; green foliage.



CANNAS.

Summer Flowering Bulbs—Continued

Cannas—Continued

Meteor. Brilliant crimson; last a long time; green foliage.

King Humbert. Fine orange scarlet, flaked carmine; bronze foliage.

William Saunders. Red flowers; bronze foliage.

Wyoming. Orange colored; true orchid shaped; bronze foliage.

Richard Wallace. Light canary-yellow; green foliage.

Gladiator. Yellow, spotted with red; green foliage.

Venus. Rosy-pink with border of creamy yellow; green foliage.

Half-Dollar Collection. Six fine assorted colors: Pennsylvania, Patrie, Louise, Moonlight, Burbank, Musafolia.

One Dollar Collection. Twelve favorites comprising Pennsylvania, Joliet, Atlanta and Pillar of Fire, all red; Indiana and Wyoming, orange colored; Austria and Burbank, nice yellow; Allemania and Flambeau, vermilion-orange and yellow; Musafolia and King of Bronzes, bronze leaved cannas.

Unnamed Varieties. Mixed, each 10c; 3 for 25c; 12 for 80c.



CALLA LILY.

CALLA LILIES.

This old favorite is always "in style" and a flower that should be in every plant collection. Our bulbs are the true California grown, extra large and vigorous. Order early. We cannot promise to have bulbs in good condition after April 1. Each, 15c; four for 50c.

SPOTTED CALLAS.

Similar in growth to the well known White Calla, except that the foliage is dotted with white spots and the flower is smaller, with a dark throat. Each, 15c; four for 50c.

BEGONIAS, TUBEROUS ROOTED.

Are very easily grown and are almost sure to bloom. Their showy flowers have become very popular, especially for window or conservatory, thriving in positions where partly protected from direct rays of the sun. Bulbs can be kept dormant from year to year. Our stock of bulbs selected from free bloomers. For seed of Tuberous Begonias, see page 52.

Double. White, scarlet, pink or yellow, 15c each; per dozen, 80c.

Single. White, scarlet, pink or yellow, 10c each; per dozen, 60c.

CYCLAMEN.

A well known and universally admired plant, producing exceedingly handsome flowers. It grows readily, blossoms freely and remains a long time in flower. The soil should be equal parts of turfy loam, leaf mould and sand. Plant in a 5-inch pot well drained. Keep in a cool, light place, watering lightly till growth begins, then water freely and give plenty of light and air.

The stock of bulbs we offer is grown expressly for critical flower lovers.

Cyclamen Persicum Giganteum. Separate colors, white, red and purple. Each, 15c.

Gloxinias

New Giant Flowering Hybrids. Beautiful house plants of dwarf habit and easy culture. Flowers are trumpet shaped with beautiful markings, shaded violet, rose, blue or crimson. One bulb planted in a 5-inch pot will make a magnificent show, and if planted at intervals will give a continuous bloom for a long period. Each 10c.

SUMMER FLOWERING OXALIS.

Useful for bordering beds, and also for hanging baskets. **Dieppi**, pure white; **Lasandra**, rosy pink. Price, either color, dozen, 30c; 25 for 50c, postpaid.

TIGRIDIAS (Tiger, or Shell Flower.)

These gorgeous summer flowering bulbs look well associated with Gladioli, Lilies and kindred stock; grow about 2½ feet high and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in the autumn and dried off in the same way. Mixed colors, 5c each, dozen for 50c, postpaid.

MONTBRETIAS.

One of the brightest and best of summer flowering bulbs, and one which will be more generally used when its merits become more fully known. Plant in clumps of 6 or 12 bulbs in May or June. They greatly resemble the Gladioli in growth and produce beautiful spikes of star shaped flowers in various shades of orange, yellow and red. Mixed varieties, 3 for 10c; per dozen, 30c.

When wanting Hyacinths, Tulips, Narcissus, etc., in the fall ask for Fall Bulb Catalog, sent free.



OXALIS.

Dahlias



We make a specialty of stock from the famous Wilmore Dahlia Farm, where there are hundreds of varieties grown. Each season we go through the assortment growing and select with special care varieties we believe to be worthy. Our list contains the very cream of the better varieties. Parties having Mr. Wilmore's price list can select any varieties therefrom and order with other goods from us.

One to three strong eyes to each bulb. Do not judge the flowers by the size of the bulb, as some of the grandest have the smallest bulbs.

On orders for Dahlias amounting to \$2.50 and over, we will give as premium "Dahlia Manual," by W. W. Wilmore, which sells for 35 cents.

Dahlias—Decorative, Show and Fancy Varieties

Prices, 15c each; \$1.50 per dozen, except where priced differently. 6 at the dozen rate.

WHITE SHADES.

Glorie de Lyon. Pure white. The largest white Dahlia in cultivation; almost round as a ball. Height, 3 feet.

Grand Duke Alexis. An immense white flower shaded with delicate lavender, on long wiry stem. Height, 4 feet. Price, each, 20c.

Lady Mildmay. A very beautiful flower. White ground shaded to pale lilac, very large and full; a free bloomer. Height, 3 feet.

Mrs. Linder. This decorative Dahlia we consider one of our best. Its color is a beautiful creamy white, shading to blush pink. Of perfect outline. Height, 4 feet.

Mrs. T. Winters. The grandest of all white Dahlias. Its color is a pure waxy white, which shows no tint or variation even in the strongest sunlight. It blooms very freely, producing flowers from 5 to 7 inches in diameter, with beautifully pointed petals. Another good quality is that it never shows an open center. The plant grows to a height of 4 feet, and is of a rather spreading habit. Price, each, 20c.

YELLOW SHADES.

Golden Treasure. A beautiful burnt orange color. Flower large, well formed and full to the center. Height, 3 feet.

Kaiser Wilhelm. One of the grandest flowers in cultivation. Of immense size and perfect form. Deep yellow, tipped and shaded with cherry red. Height, 4 feet.

Miss Dodd. Purest yellow. Of exquisite form and color. A remarkably handsome flower. Height, 3 feet.

SPECIAL OFFER: One each, above Show and Fancy Varieties, 19 bulbs for \$2.25.

Pompon or Bouquet Dahlias

These small, well formed Dahlias are especially desirable for cutting. We name but three colors, but can furnish a full list of colors if desired. Strong tubers, 15c each; \$1.50 per doz.

Catherine. Bright yellow, good form and stem. Height, 3 feet.

Darkness. Very dark maroon, extra fine. Height, 3 feet.

White Aster—Guiding Star. Pure white; ex-

DOLLAR COLLECTION. Thirteen Dahlia Bulbs, no two alike, our choice, but not labelled, for \$1.00. An immense amount of flowers for the money.

Mrs. T. F. DeWitt. See cut. The large, yellow flowers are perfect both in form and color.

The Baron. Bright yellow flowers, sometimes tipped with white. In form they are nearly round. Stems long. An excellent variety for cutting. Height, 4 feet.

PURPLE, RED AND MAROON.

Bon Ton. A fine ball shaped flower of a deep garnet red, sometimes tipped and streaked with white. An extra fine Dahlia. Height, 4 feet.

Frank Smith. Rich dark maroon. Generally tipped with pure white, shaded into pink. One of the best. Height, 5 feet.

Floral Park Jewel. Rich purple red, tipped and striped with white. Sometimes solid color. Very early and free bloomer. Height, 3 feet.

Lyndhurst. Scarlet or vermilion. A noble flower. Height, 4 feet.

Navajo. The color is very rich, being a most intense red, with violet shading. Strong and healthy, foliage very dark. Price, each, 20c.

Purple Gem. Rich royal purple, clear and constant. A first class flower. Height, 4 feet.

PINK.

A. D. Livoni. Rich pink, finely formed, a very handsome flower. Height, 3 feet.

Annie Moore. A fine variegated flower of medium size. Color, beautiful combination of cherry, pink and white. Height, 3 feet.

Madam Von Den Dael. An immense shell pink decorative Dahlia. Stems are exceptionally long and wiry, bringing the large flowers above the foliage. Each, 20c.

cellent for cutting; petals fringed. Height, 3 feet.

Single Dahlia

Twentieth Century. A grand single variety, not only valuable as a flowering plant for the garden, but a choice cut flower. It is a rosy crimson, tipped with white, and has a white band around the disc. As the season advances they become lighter, until they are almost pure white, suffused with soft pink, not variegated but blended in the most beautiful manner. Each 15c.

Dahlias—Continued

Cactus Dahlias

Price, 15c each or \$1.50 a dozen, except where priced differently; 6 at the dozen rate. One each, 10 bulbs for \$1.15, prepaid.

PINK.

Countess of Lonsdale. Color, an exquisite shade of rich salmon, with just a suspicion of apricot at the base of the petals. Towards the tips the color deepens gradually to the softest carmine pink. Each, 20c.

Gen. Buller. Cardinal with crimson shading. Each petal tipped with pinkish white. Stems 3 feet long. An extra fine Dahlia.

Kriemhilde. Produces flowers of a delicate flesh pink, shading to white in the center. As a cut flower it is likely to supersede all existing pink sorts. Each, 20c.

YELLOW.

Mrs. Chas. Turner. Is the finest of all the yellow in the Cactus variety. Extra large, with long, pointed petals and perfect in form. Bright lemon yellow. Height, 4 feet.

WHITE.

Iceberg. A delicate, medium sized flower, borne on long erect stems. Color pure white shading to greenish white at the base of the petals. Height, 3 feet.

Schwan. Pure white. Petals long and narrow. Height, 3 feet.

RED AND MAROON.

Gabriel. See cut. Very large and full to the center. Color, scarlet to creamy white, often striped scarlet and white. Strong tubers.

Gloriosa. Bright scarlet, long curved petals. One of the best. Height, 4 feet.

Uncle Tom. See cut. Maroon approaching black; petals long and narrow, flowers large and full; strong tubers.

Amos Perry. Large flower, petals long and curved. Intense scarlet. Height, 3 feet.

Gladiolus

The most attractive of all summer flowering bulbs, and now that such great advancement over the common sorts has been made, the Gladiolus is winning admirers each season. They are sure to bloom. We recommend planting 4 inches deep, in ordinary soil not excessively rich. Make succession of planting to have blooms prolonged through the season. Large bulbs do not always produce the grandest flowers. Medium sized bulbs give best results.

Each Doz.

America. Soft pink, extra large spike.	\$0.10	\$0.75
Augusta. Lovely, pure white with blue anthers; strong, straight spike, often having two or three branches. . . . .	.10	.75
Baron Hulot. Large size flowers, well arranged on straight spike; color dark violet, bordering on blue. . . . .	.10	1.00
Brenchleyensis. Vermilion scarlet. . . . .	.10	.75
Bird of Paradise. Canary yellow, striped cherry. . . . .	.10	.75
Golden King. Bright yellow with crimson patch. . . . .	.20	2.00
George Paul. Large flowers, deep crimson slightly stained yellow, spotted with purple. . . . .	.10	.75
Giant Pink. Large flowers of rich and clear pink, three lower petals marked with red. . . . .	.10	.75
Jane Dieulafoy. Flowers creamy white, lower petals stained maroon. . . . .	.10	.75
Klondyke. Very desirable as one of the earliest yellow. Pale primrose yellow with crimson maroon blotch on lower petals. . . . .	.10	.75
Mrs. Frances King. Light scarlet, long spike. . . . .	.10	.75
Mephistopheles. Flowers of large size, dark red, stained with black and yellow. Very attractive. . . . .	.10	.75
Mrs. Beecher. Beautiful deep rosy crimson, large well open flowers, with white throat, freely marked. . . . .	.10	.75
Peace. Beautiful white with pale lilac. . . . .	.20	2.00
Princes. Is the largest and most effective and graceful of all Gladioli. It grows from 3½ to 4 feet high under ordinary garden conditions; its handsome foliage is a grand setting for the brilliant Amaryllis-like blooms which open more widely than any other variety. The color is rich crimson with intense shadings in the throat and broad white blotches across the lower petals. The flowers range from 5 to 6 inches in diameter. . . . .	.15	1.50
Snowbank. Fine spike of well formed flowers, pure white, save for a slight stain of red at base of petals. . . . .	.10	.75
The King. Rich magenta, the throat bearing a blotch of red on a white ground. . . . .	.15	1.50

We will sell one dozen mixed varieties at dozen rate, if prices per dozen are same.

Groff's Strain, Mixed. Many flowers measure 5 inches across, from tip to tip of petals. They

Light Colors Only, Mixed. Each, 5c; 6 for 30c; 12 for 50c, prepaid.



are surely grand. You should order from this stock if you wish to excel in cultivating Gladioli. All large size bulbs, 10c each; 75c per doz. Second size bulbs, 60c per doz.; 100, not prepaid, for \$2.50.

High grade Mixture. Made up of many of the finest or the older strains, including some of Lemoine's Seedlings, Childs' and Burbank's Select. Average good sized bulbs. 4 for 20c; doz. for 50c; 100, not prepaid, for \$2.50.

Good Mixture. Consists of a good assortment of sure to bloom bulbs. Doz., 30c, prepaid; 100, not prepaid, for \$1.25.

Choice Hardy Lilies

(All Prepaid.)

The Lily is decidedly "The Queen of Hardy Flowers." Much can be said in praise of the varieties we offer. There are many varieties not sufficiently hardy or suitable for our locality.

Longiflorum, Easter Lily. Pure white trumpet flower, resembling the Harrisii. Each, 20c; dozen for \$1.75.

Auratum. The true golden-banded Lily of Japan—see cut. This Lily is perfectly hardy, increases from year to year. Should be in every garden. Each, 20c; dozen for \$2.00.

Speciosum Rubrum. A beautiful Japan variety, with six broad white petals, with rich crimson spots. Each, 15c; dozen \$1.50.

Speciosum Album. The white petals have green band through the center. Each, 20c; dozen, \$2.00.

Speciosum Melpomene. Flowers pinkish crimson, fringed with petals curved and widely bordered. Each, 15c; dozen, \$1.50.

Tigrinum Flore Pleno. The old-fashioned Double Tiger Lily. Much admired for its stately habit, bearing immense clusters of blossoms of orange red, spotted with black. Each 15c; 3 for 40c; dozen for \$1.00.

Lily of the Valley. A bed or clump of these in a shady corner will thrive and bring you a wealth of fragrant blooms. 6 pips for 20c; 12 for 30c; 100 for \$2.25.



LILY—AURATUM.

Bulb Collection Offer No. 30

Price, Postpaid, 30 Cents.

- 1 Liliun Auratum.
- 2 Montbretias.
- 1 Tigridia.
- 2 Gladioli.

Tuberoses

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed, and for a succession they can be planted at intervals as late as August. For open ground culture plant in May and June in warm location.

The Pearl—Double Dwarf. First size bulbs, each 5c; 12 for 50c; postpaid. Not prepaid, 12 for 40c. Second size bulbs, 30c per dozen, postpaid; not prepaid, 25c.

Bulb Collection Offer No. 50

One each of the following postpaid, for 50c.

- 1 Amaryllis Formosissima.
- 1 Spotted Calla.
- 1 Named Canna.
- 1 Begonia, single.
- 1 Begonia, double.

Hardy Perennial Herbaceous Plants and Roots

No flower garden is complete without an assortment of the hardy plants that usually require very little care. They can often be tucked away in corners and odd places to come up each season with the opening of spring.

The prices named include postage, except where noted. If we are privileged to ship by express at your expense we can usually supply much larger and stronger roots for the same price.

ACHILLEA.

The Pearl. Pure double white flowers, useful for cutting. Each, 15c; 3 for 40c.

ASTILBA JAPONICA.

A species of Spirea, with dark green cut leaves and feathery white flowers. Each, 20c, not prepaid.

AQUILEGIA COERULEA—The True Rocky Mountain Columbine.

The true beauty of this flower is appreciated when seen wild in the mountains of Colorado. We make a specialty of collecting roots and furnish none but the true stock. We ship to all parts of the United States. This flower is embodied in our trade mark. Large roots, 20c; medium size roots, 15c.

BLEEDING HEART OR DIELYTRA.

The old favorite, heart shaped flowers. Each, 20c; 3 for 50c.

BURNING BUSH—Lychnis Chalcedonia.

A very showy plant with bright scarlet flowers. Blooms in July. Each, 15c; 3 for 40c.

CAMPANULA.

In several varieties, including the Canterbury Bell. Each, 15c; 3 for 40c.

COREOPSIS LANCEOLATA.

Flowers are bright golden yellow. Each, 15c; 3 for 40c.



COLUMBINE.

Hardy Perennial Herbaceous Plants and Roots—Continued

DIANTHUS BARBATUS—Sweet William.

Continues in bloom most all summer. Large, double flowers. Each, 15c; 3 for 40c.

DELPHINIUM FORMOSUM.
Perennial Larkspur.

A very graceful, tall growing plant, with long spikes of bright blue flowers. Each, 15c; 3 for 40c.

DIGITALIS—Fox Glove.

A very ornamental plant, growing to about 3 feet high. Each, 15c; 3 for 40c.

GYPSOPHILA PANICULATA—Baby's Breath.

Small white flowers, very useful for bouquets. Each, 15c; 3 for 40c.

HELIANTHUS MULTIFLORUS PLENUS—
Dahlia Sunflowers.

Loaded with yellow flowers. Makes excellent cut flowers. Each, 15c; 3 for 40c.

HELIANTHUS MAXIMILLIANAE.

Yellow, long graceful sprays. Fine for cut flowers; blooms in September; height, 6 feet. Each, 15c; 3 for 40c.

SHASTA DAISIES—Burbank's New Varieties.

There are now a few more varieties of this celebrated favorite, which are quite superior to the older form of Shasta Daisies. We mention a few of the best that produce flowers twice the size of the old form, with extra long stems.

Alaska, Westralia, California. Each, 20c; 6 for \$1.00.

FUNKIA OR DAY LILY.

White Day Lily—Funkia Alba. Has milky white flowers, 3 to 4 inches long. In very cold localities requires some protection through the winter. Each, 25c.

Yellow Day Lily. Produces large, fragrant yellow flowers, during July and August. Each, 25c.

GAILLARDIA GRANDIFLORA.

Has a mass of blooms the entire season. Flowers are dark red-brown, with petals of orange or crimson. Price, 15c; 3 for 40c.

HOLLYHOCKS.

The handsome double flower of the improved varieties of this flower makes it a great favorite. Our stock is grown by a man who makes a specialty of bulbs and shrubs. We have in stock double white, salmon, pink, yellow, red and maroon. One year old roots. Each, 10c; doz., \$1.00.

MAMMOTH ALLEGHENY
HOLLYHOCKS.

This entirely new Hollyhock is quite distinct from the older varieties. Flowers beautifully fringed. Mixed colors. 10c each; doz., \$1.00.



FUNKIA.



HOLLYHOCKS.

GERMAN IRIS—Flag, Fleur de Lis.

This is one of the most desirable summer flowering plants. They bloom in June and July and because of the great range of color are also known as "Rainbow Flower." Each, 15c; 3 for 40c; 12 for \$1.25.

Named Varieties.

Canary Bird. Light canary yellow.

Celeste. Bright blue.

Conspicua. Maroon and yellow.

Florentina Alba. White tipped pale lilac.

Honorabilis. Yellow and crimson.

Flavescens. Light primrose yellow; very large and free flowering.

Mrs. H. Darwin. Satiny white veined crimson.



GERMAN IRIS.

Delicata. Standard light blue; drooping petals white, edged lavender.

Queen of May, Soft rosy lilac, almost pink; free bloomer.

SIBERIAN IRIS.

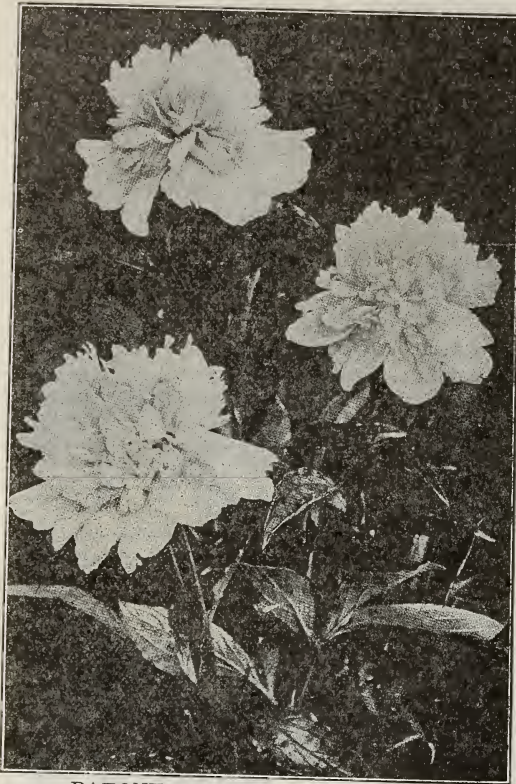
Blue. This is a flower of remarkable hardiness and vigor and one of the best for cut flowers.

JAPANESE IRIS—Iris Kaempferi.

A splendid hardy plant of easy culture, which delights in constant cool, moist soil. It succeeds splendidly by the side of a stream, lake, pond or in a swamp. It has the richest colors of the family and can be compared to orchids. It commences blooming about the middle of June and continues for 5 to 6 weeks. Many of the flowers measure 8 to 10 inches in diameter. Mixed varieties, each, 25c; dozen, \$2.50.

PAEONIES

This grand old Favorite is today one of the most popular flowers. The Japanese have always held them in esteem and have brought to use an endless variety of colors and forms of bloom. The plant is perfectly hardy and increases rapidly. The flowers come early and are very seldom attacked by disease. An assortment should be in every garden. Our roots are extra large.



PAEONY—FESTIVA MAXIMA.

RUBBECKIA OR GOLDEN GLOW.

This is decidedly one of the brightest and most showy among the hardy plants, and one of the easiest culture possible, commencing to bloom in July and continuing until killed by frost. The plant is compact, growing from 4 to 7 feet high, producing numerous stems, which are laden with double golden-yellow flowers, in size and general shape resembling a Cactus Dahlia. Excellent for cut flowers, lasting well when cut. Each, 15c; 3 for 40c.



TRITOMA.

POPPY HARDY ORIENTAL.

Large and flaming flowers of orange-scarlet color. Each, 15c; 3 for 40c.

TRITOMA—Torch Lily or Red-hot Poker.

Pfitzeri. The freest flowering variety in cultivation, with heads of blooms over 12 inches long of a rich orange-scarlet, shading to salmony-rose at edges, producing a grand effect, whether planted in the border or in masses or beds. Each, 25c.

On order for Paeonies amounting to \$2.50 and over we will give as premium Manual on Propagation and Cultivation of the Paeony. Price, 25c.

Golden Center. Pure white with pale yellow center. A very attractive flower. Each, 25c; by mail, 35c.

Early Rose. An early pink, blooms in clusters; very fragrant. Each, 25c; by mail, 35c.

Rosea Superba. Fine, full rosy pink; extra choice flower; very free bloomer. Each, 25c; by mail, 35c.

Victoria Tri-color. Outer petals pale rose; mottled with pink; center ones yellowish white, with a few red marks; very large, full and sweet. Each, 25c; by mail, 35c.

Late Rose. Similar to Early Rose, only it blooms later in the season. It is a fine rose-scented flower. Each, 25c; by mail, 35c.

Paeony Collections of above 5 distinct colors for \$1.00; by mail, \$1.25.

Festiva Maxima. The grandest of all Paeonies. White with carmine flaked center and very double. 35c each; by mail, 45c.

White, unnamed, but strong roots, 20c each; by mail, 30c; 6 for \$1.00; by mail, \$1.30.

Pink, unnamed, but strong roots, 20c each; 6 for \$1.00; by mail, \$1.30.

Red, unnamed, but strong roots, 20c each; 6 for \$1.00; by mail, \$1.30.



HARDY PHLOX.

EARLY FLOWERING HARDY PHLOX.

These we consider the most desirable of all hardy perennials.

Flowering abundantly from July until late in the autumn. These new French varieties are of a dwarf growth, seldom attaining a height of over 12 to 18 inches. The immense flower heads often measure from 7 to 9 inches across, with flowers as large as a silver dollar, and comprise all shades of color, vermillion to white. They delight in sunny location and rich soil, but are by no means particular. We can supply these in ten different colors—white, pink, red, purple, lavender, deep lilac, pale pink with red eye, white with pink eye, salmon scarlet, salmon pink. 15c each; 3 for 40c; set of ten different colors, \$1.00 postpaid.

HARDY CLIMBING PLANTS

FOR PORCHES, TRELIS, ETC.

AMPELOPSIS VEITCHII—Boston Ivy.

The handsomest vine possible for trailing to walls, buildings, etc. Is usually hardy; however, some protection is necessary. Two-year-old plants by express, 25c; small plants by mail, 25c; 3 for 50c, postpaid.

APIOS TUBEROSA OR TUBEROUS WISTARIA.

Has foliage and blossoms similar to ordinary Wistaria, though propagated by tubers. Perfectly hardy. Each, 5c; 12 for 40c, postpaid.

BIGNONIA—TRUMPET VINE.

An old-fashioned hardy climber, bearing trumpet shaped crimson orange flowers. Large roots, 35c each, by express, not prepaid.

Clematis

It is a rapid grower, and delights in a heavy, rich soil and a sunny position. Dig the soil deep and plant so that the crown of the roots will be 3 inches below the surface of the soil, water freely, especially in dry times; give plants a good top dressing of well rotted manure late in the fall, and in the spring spade well and carefully into the soil and you will be well repaid. The varieties we have are those best adapted to our climate.

Henryi. Strong grower, flowers always eight-sepaled, 4 to 6 inches in diameter and pure white. Very hardy. Postpaid. Each, 50c



GROUP OF 4 CLEMATIS.



APIOS TUBEROSA.

Jackmanii. Has rich, large, deep purple flowers, so much admired by all. Healthy two-year-old roots. Postpaid. Each, 50c

Mme. Eduard Andre. A new bright red. Large flowering and as free bloomer as Jackmanii. With slight protection it will withstand the winters in Colorado. Postpaid. Each, 50c

SPECIAL CLEMATIS OFFER: You pay the expressage. One each Jackmanii, purple, Henryi, white, Madame Eduard Andre, red, for \$1.15.



HONEYSUCKLE—CHINESE.

HONEYSUCKLE HALLEANA—Chinese.

Grows vigorously, with yellowish white fragrant flowers. Large two-year-old roots, 35c, by express, not prepaid.

MADEIRA VINE.

While it grows most anywhere, it does best in warm, sunny location. Has a small white flower. Foliage of waxy appearance. Madeira vines are not hardy, though they are excellent tubers, thus we place them on this list. Strong tubers, 2 for 10c; doz., 40c, postpaid.

Paniculata. The flowers are of medium size, pure white, borne in immense sheets. Very fragrant. Hardy and of quick growth. This has different style blossoms from the above kinds. The small white flowers are very attractive. In bloom latter part of August and through September. Postpaid. Each, 40c

CINNAMON VINE.

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon and is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor early in the season. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and delicious cinnamon odor, is a most desirable climber. We furnish the large tubers, postpaid, for 10c; 3 for 25c. Second size, 2 for 15c; dozen for 60c.

HONEYSUCKLE.

Scarlet Trumpet or Coral. Very strong, rapid grower with red flowers. Large two-year-old roots, 35c, by express, not prepaid.

JAPAN BEAN OR KUDZU VINE.

The most rapid growing perennial vine in cultivation, attaining, once after being established, a height of 50 feet or more in one season. Its foliage is large and furnishes dense shade. It bears small racemes of rosy-purple pea-shaped blossoms towards the end of August. A splendid plant for covering permanently verandas, dead trees, etc. Good roots, each, 30c, postpaid.

WOODBINE.

An exceedingly popular vine for porches, arbors, etc. Is very hardy, clings readily. Each, 20c; 3 for 50c; doz., \$1.50, postpaid.

WISTARIA.

A great climber, with dense clusters of beautiful flowers.

Purple, large roots, 35c, by express, not prepaid.

White, large roots, 50c, by express, not prepaid.

BULB COLLECTION No. 25. Climbing Plants.

3 Apios Tuberosa, 3 Madeira Vines,
2 Cinnamon Vines, all by mail for 25c.

HARDY SHRUBS

SHOULD BE SENT BY EXPRESS.

If they must be shipped by mail, add 15 to 25c each for packing and postage.

ALMOND, DOUBLE FLOWERING.

The first shrub in the spring to bloom, even young plants being entirely covered with little pink rosettes, before any foliage is seen anywhere. Order these in March if you want them to bloom the first year. Blossoms in May. Price for strong plants, either pink or white, 35c each.



BRIDAL WREATH.

HONEYSUCKLE TARTARIAN.

(Upright.) Forms a fine bush with creamy white flowers. Blooms in July, and red berries appear in August. Each, 35c.

HYDRANGEA PANICULATA GRANDIFLORA.

A most beautiful shrub with immense panicles of blooms, white fading to a light pink. The most popular shrub we have. Blooms in August. Strong root, 35c each. Extra large, 50c each.

GOLDEN LEAVED ELDER—*Sambucus Aurea*.

Very striking in appearance and a very robust grower. Blooms in July. Each, 35c.

LILAC.

Grows freely in any soil. We have the pure white and purple colored. Blooms in May. Each, 30c; 2 for 50c.

LILAC PERSIAN.

This splendid variety has smaller foliage and brighter colored flowers than the common variety. It does not grow so tall and blooms three or four weeks later. We have both purple and white. Each, 50c.



JAPAN SNOWBALL

JAPAN SNOWBALL—*Viburnum Plicatum*.

This Japanese variety is a close relation to our own Snowball; it is perfectly hardy and forms a nice shaped shrub from 6 to 8 feet high. It is covered with white flowers during the month of June; flowers resemble our old Snowball, but are rather flat than round. Strong plants, 40c each.

BLUE SPRUCE.

Rocky Mountain grown. The best Evergreen for lawn. 20 to 24 inches high, \$1.50; 2 to 3 feet, \$2.00 each, by express only.

BRIDAL WREATH—*Spirea Van Houttei*.

The most beautiful of all *Spireas*. In the spring it is a perfect fountain of white flowers; it is admired by all who see it. Strong two-year-old plants. Blooms in May and June. 35c each.

HIBISCUS—Rose of Sharon.

Has large, double flowers, pink or white with maroon center. Blooms in August. Each, 35c.

CALYCANTHUS FLORIDUS—Strawberry Shrub.

A well known shrub with double chocolate colored flowers, with decided strawberry scent. Good sized plants. Blooms in June. 35c each.



STRAWBERRY SHRUB

ENGLISH HAWTHORN—*Crataegus*.

We have the double flowering variety, which is superior to the old single form. Nice, strong plants, 50c each.

NEW DOUBLE-FLOWERED LILAC.

Decidedly one of the most beautiful of all shrubs, especially adapted for the lawn. The flowers are perfectly double and very fragrant. Being a late bloomer, it is especially adapted to this country, thus not likely to suffer from late frosts, which so often catch the early spring varieties. Blooms in June. Each, 50c.

JAPAN QUINCE OR FIRE BUSH—

Pyrus Japonicus.

A very showy and popular shrub. Large, bright, scarlet flowers, and may be called a scarlet apple blossom. Blooms in May. Each, 35c.

MOCK ORANGE—*Philadelphus Coronarius*.

Sometimes called Jessamine. Free flowering, pure white. Has a Jessamine fragrance. Blooms in June. Large two-year-old stock, 35c each.

SNOWBALL.

A shrub that needs no introduction. Our stock is choice two-year-old roots. Blooms in June. Each, 35c.

SPIREA CRIMSON—Anthony Waterer.

This is a dwarf and very compact growing variety not over 2 feet, different from any other *Spirea*; covered all summer with bright crimson flowers, and perfectly hardy. Fine plants. Each, 35c.

TAMARIX AFRICANA.

Strong, slender growing, irregular shrubs, with feathery foliage of a most striking pea green, and small, delicate flowers, borne on gracefully bending branches. These pink flowers are very attractive during July and August. Price, 35c.

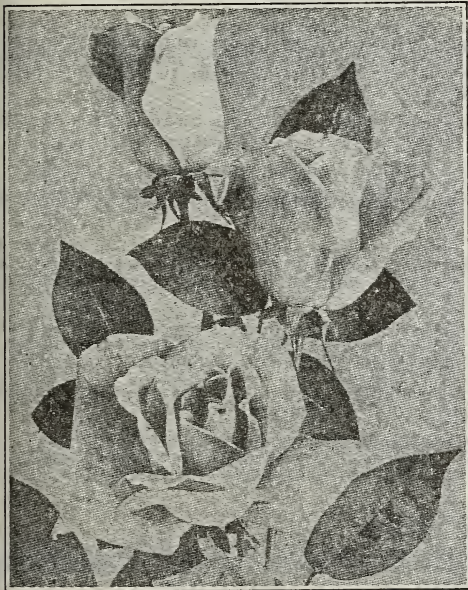
BARTELDES SELECT ROSES

BEST ADAPTED TO OUR WESTERN COUNTRY.

CULTURE. The Rose, rightly called the Queen of Flowers, being a very heavy feeder, should be planted in soil made as rich as possible, and not too wet. Before planting incorporate in the soil, when digging the hole, a shovelful of well rotted manure and set your plant about one inch deeper than originally planted, spreading the roots and pressing the ground firmly around them. Plant the bedding kinds about 1½ feet apart, while the climbers are set from 3 to 4 feet apart. The best time to plant them is in April and May. During the summer the ground must be cultivated to keep it free from weeds and to prevent it from baking. In the fall, after the leaves have fallen off, the plants should be trimmed back to one-half of the season's growth, tied together and dirt heaped around them. A good dressing of old manure or bone meal will insure a big yield of flowers the next year. To prevent and destroy the rose chafer and rose slug, sprinkle the bushes as soon as leaves are forming and once a week after with a solution of one ounce Paris Green to 100 gallons of water. Mildew can be checked by dusting sulphur on the leaves every 2 or 3 days, and green fly will soon disappear if tobacco dust is scattered on and under the leaves. The plants should be sprinkled thoroughly before applying powdered insecticides.

CARE TO GIVE ON RECEIVING PLANTS: As our plants are big, strong, two-year-old, they should be trimmed back to one-third of the length of the main branches, removing all the side shoots (they do not bloom), and if they have been on the way 3 or 4 days, put in a bucket of water or a few hours, unless they are shipped in a growing state and dirt around the roots. We do not rim plants much, unless asked to do so, as most people expect large bushes and they look better untrimmed, but if you want your roses to grow, and we are very anxious that they should, you must trim them before or right after planting. Three or four eyes to a branch are sufficient.

We have had many flattering testimonials in regard to size and varieties of Roses we have sent out, and we have secured for this season the cream of our growers' stocks. These Roses are so large to mail satisfactorily.



WHITE.

COQUETTE DES BLANCHES. Pure white, with beautiful shell-shaped petals. Especially suitable for cemetery planting.

FRAU KARL DRUSCHKI. A pure paper white, large sized and free flowering. The bloom is perfect in form and borne on a long stem.

MADAM PLANTIER. One of the best for cemetery planting with its large clusters of pure white flowers.

MARGARET DICKSON. A grand white, one of the most beautiful of the Hybrid Perpetuals.

EVERGREEN GEM (Vichuriana) Memorial Rose. Creamy white with the rich fragrance of Sweet Briar roses.

Hardy Roses for Outdoor Planting

These are by far the most satisfactory Roses for our Western country. They are distinguished for their vigorous growth and large, perfect flowers. We recommend them for permanent beds. We furnish two-year-old field-grown plants, which are kept dormant in our storage cellar and should not be taken out until time for planting.

Price for all the two-year-old stock, 35c each; dozen, \$3.00, purchaser paying expressage. If they must be sent by mail, add 15c each for extra packing and postage.

PINK.

CLIO. Flowers are perfect in form; color, delicate satin blush, free blooming and strong, healthy grower.

LA FRANCE. The delightful fragrance of this Rose is appreciated by all lovers of Roses. This is the most perfect of Roses. A delicate pink. Half hardy, needs a little covering through the winter.

MAGNA CHARTA. Beautiful bright pink, suffused with carmine; strong grower.

PAUL NEYRON. Flowers deep pink. A very strong grower and a free bloomer.

ENGLISH SWEET BRIAR. The well-known English sweet-scented Rose suitable for fancy hedges.

SWEETHEART (Vichuriana) Memorial Rose. A beautiful shade of rosy pink, produced freely, and sweet-scented.

LIGHT RED.

AMERICAN BEAUTY. The largest and sweetest of all hardy Roses. Immense in size, rich in color and fragrance; rosy carmine.

ANNA DE DIESBACH. Clear, bright carmine; very large and finely shaped; full and fragrant.

YELLOW.

GLORIE LYONAISE. White, tinted with yellow. The nearest approach of a yellow rose among Hybrid Perpetual Roses.

YELLOW PERSIAN. Hardy semi-double yellow flowers, strong grower.

Hardy Roses—Continued

RED.

BABY RAMBLER. This new Rose is a cross between "Crimson Rambler" and "Glory of Polyanthus," retaining the color and extreme hardiness of the former with the free flowering and dwarf habit of the latter. It is perfectly hardy and is covered with bright crimson flowers all through summer. A superb Rose for pot culture.

GENERAL JACQUEMINOT. Brilliant scarlet crimson; too well known to need description; no garden complete without it.

GENERAL WASHINGTON. Red shaded crimson, large, full and flat.

PRINCE CAMILLE DE ROHAN. Very dark velvety crimson, changing to a deep maroon.

MOSS ROSES.

These are still favorable where an assortment of Roses are cultivated. **Large plants, 35c each; \$3.00 per dozen.**

BLANCHE MOREAU. Pure white flowers in clusters, large, full and sweet; finely mossed.

CRESTED MOSS. Rose color, beautifully crested.

BARTELDES' SPECIAL ROSE COLLECTION.

Ten good and strong two-year-old plants, comprising all shades and colors, bush and climbing varieties, our own selection. By express, not prepaid, \$2.25.



Hardy Climbing Roses

Desirable for covering trellises, walls or porches, as they succeed under all circumstances. Perfectly hardy, blooming in clusters of medium-sized double and semi-double flowers profusely throughout the season. Price for two-year-old field-grown plants by express, **35c each; \$3.00 per dozen.** If they must be sent by mail, add 15c each for extra packing and postage.

NEW CLIMBING AMERICAN BEAUTY. See Novelties.

THE CRIMSON RAMBLER remains at the head of the climbing roses. It is a vigorous grower, making shoots 10 to 15 feet in a single season, and when in bloom commands admiration by the gorgeous display of its brilliant crimson clusters of blossoms, each cluster a bouquet in itself. The blooms remain on the plant for a great length of time without losing their brightness. It is perfectly hardy in all parts of the West.

YELLOW RAMBLER. Also a strong grower and very hardy; produces large trusses of nearly double pale yellow flowers; very fragrant.

WHITE RAMBLER. Semi-double flowers lasting a long time on the plants.

SPECIAL COLLECTION OF RAMBLERS. One each, crimson, white, yellow, with a colored picture. Price, 90c.

BLUE RAMBLER. It is a strong growing hardy climbing rose, with a glossy green foliage and a few prickly thorns. The steel blue flowers appear in large clusters and are semi-double and medium in size. The showy yellow stamens with the blue flowers make the plant particularly attractive.

LADY GAY. A desirable new variety of vigorous growth. The flowers are of a delicate cerise pink passing to soft-tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds and the deep green foliage is charming.

DOROTHY PERKINS. This grand climbing rose resembles very much the Crimson Rambler but flowers are more double, of a beautiful shell pink color and sweet scented.

BALTIMORE BELLE. Produces large, double pale blush flowers.

PRAIRIE QUEEN. A favorite. A bright red changing to deep pink.

Greenhouse Roses

We can furnish Roses from 2½-inch pots direct from the greenhouse. They are good, strong growing plants, and must not be compared with cheap Roses sold in collection lots. **Price, 15c each; 2 for 25c; dozen, \$1.25.** If by mail, add 5c each, or 40c a dozen, for postage.

AMERICAN BEAUTY. The most popular Rose grown; color, rosy carmine.

BABY RAMBLER. Large clusters of crimson flowers; very free bloomer.

BRIDESMAID. A pink Tea Rose; very fine for cut flowers.

FRAU KARL DRUSCHKI. A pure paper white, large sized and free bloomer.

GRUSS AN TEPLITZ. Dark, rich crimson, changing to a bright velvety red.

LA FRANCE. The most perfect Rose; color, a delicate pink; very fragrant.

WHITE KILLARNEY. A pure white sport of the favorite pink Rose of Killarney. Very floriferous, of exceedingly strong growth and of a very healthy habit. A variety we can recommend.

LIBERTY. A fine crimson scarlet; free bloomer.

MADAM A. CHATENAY. Flowers of good size, very double; color, rosy carmine, shaded salmon.

PERLE DES JARDINS. A rich shade of yellow; perfect form and Tea fragrance.

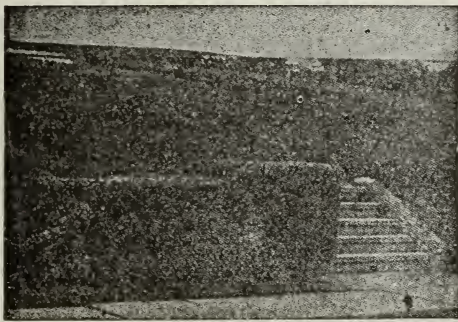
RICHMOND. A rich crimson scarlet, with long stems, which does not "blue" with age; blooming as freely as the best monthly rose.

THE BRIDE. A pure white Rose of large size and of delicious Tea fragrance.

WHITE BABY RAMBLER. Large clusters of white flowers; free bloomer.

KILLARNEY. Brilliant pink with large pointed buds, broad wax-like petals and enormous semi-full flowers.

HEDGE PLANTS



A HEDGE OF PRIVET.

BARBERRY—Purple.

These are the best plants for hedges, and are very hardy. The foliage and fruit are violet colored, rich looking and very effective. 15c each; per doz., \$1.50; per 100, \$11.00. By express only, not prepaid.

SWEET BRIAR—English Wild Rose.

Very rapid grower. The foliage is very fragrant, also the flowers. This makes a superb hedge, especially when in full bloom. It can be trimmed like other hedges. 35c each, by express, not prepaid. Dozen, \$3.00.

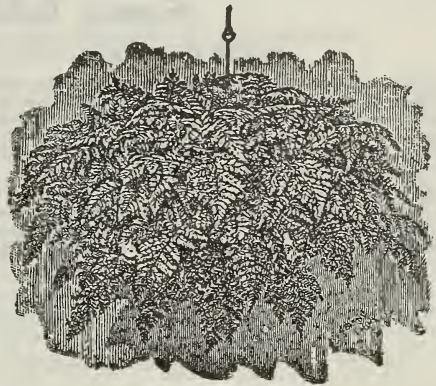
COLORADO GROWN HARDY PRIVET.

Similar to California Privet, but more vigorous and standing our severe winter. Good plants, not prepaid, each 15c; doz., \$1.25; per 100, \$9.00.

CALIFORNIA PRIVET.

This plant is coming rapidly to the front, and if properly handled will make the finest hedge imaginable. They are not quite hardy in mountain districts. They should be planted 8 inches apart, and in a double row where possible. Good plants, by express only, not prepaid, 10c each, per dozen, \$1.00; per 100, \$7.00.

Persons contemplating planting large areas of hedge, or desiring estimates for quantity planting, will do well to consult us.



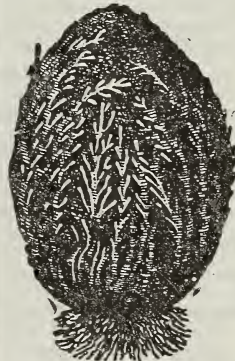
JAPANESE FERN.

JAPANESE FERN BALL.

Fern roots woven outside and around a ball of moss. These roots will produce beautiful sprays of fern from eyes at nearly every inch of their length then the whole surface is covered.

Directions for Starting. Soak the ball in tepid water from 30 to 40 minutes and hang up. Repeat every other day till well started and after sprinkle when needed. The temperature of a common living room is just right. They can be dried up at any time, put away and started up again by soaking as before. Each, 60c; 3 for \$1.50, postpaid.

RESURRECTION PLANTS.



RESURRECTION PLANT COILED UP.

A truly marvelous plant. When you receive it from us it is a shrunken ball of coiled up leaflets, but when immersed in tepid water one fond-like tip unfolds slowly outward, then another and another until flattened into a plant like shape, and transformed into a lovely rosette of beautiful velvet green, fern-like moss, both odd and marvelous. Can be resurrected at will, time and again, indefinitely, by being allowed to curl up and become dry each time, after having been fully opened by water.

Large plants, 10c each; 3 for 25c; small plants, 5c each; 6 for 25c. All prepaid.

Summer Bedding Plants

Ready from April 15 to June 30. Priced by express. If wanted by mail, add 5c each, or 40c a dozen.

	From 2-inch Pot.	Each	Doz.
Antirrhinum (Snapdragon), assorted colors.		\$0.10	\$0.90
Asters, Chinese and Japanese, var. asst. colors.		.10	.90
Asters (Daybreak), best for bouquets, pink.		.10	.90
Carnations, Marguerite, fine summer bloomers.		.10	.90
Carnations, perpetual blooming, white, pink, red.		.10	.90
Cosmos, pink, white, red, yellow.		.10	.90
Coleus, assorted varieties.		.10	.90
Chrysanthemums, Chinese and Japanese, asst.		.10	.90
Feverfew, double white.		.10	.90
Forget-Me-Not, blue.		.10	.90
Fuchsia, double, assorted colors.		.10	.90
Fuchsia, single, assorted colors.		.10	.90
Geraniums, double, assorted colors.		.10	.90
Geraniums, single, assorted colors.		.10	.90
Geraniums Lady Washington, assorted colors.		.10	.90

	From 2-inch Pot.	Each	Doz.
Hanging Basket Plants in assorted varieties.		\$0.10	\$0.90
Heliotrope, white and blue.		.10	.90
Ivy, English.		.10	.90
Ivy, German.		.10	.90
Lobelia, Crystal Palace, (blue).		.10	.90
Marguerite, white with yellow center.		.10	.90
Marguerite, pure yellow.		.10	.90
Petunia, single, Giants of California, assorted.		.10	.90
Petunia, double fringed, asst. colors.		.10	.90
Phlox, Drummondii Grandiflora, asst.		.10	.90
Pinks, Chinese, double and single, asst.		.10	.90
Pinks, hardy.		.10	.90
Salvia Splendens (Scarlet Sage).		.10	.90
Smilax.		.10	.90
Stocks, Ten Weeks, assorted colors.		.10	.90
Verbena, one of the best bedding plants, assorted colors.		.10	.90
Violet, sweet-scented, blue, single or double.		.10	.90

Summer Bedding Plants—Continued

PANSY PLANTS.

For many years we have made a specialty of offering to our customers a very choice strain of Pansy Plants that are excelled by none for variety of colors and markings—they are grown from seed costing \$5 to \$8 per ounce—positively nothing better. These should always be sent by express. First lots in bloom ready about April 1. Price, not prepaid, 1 dozen in basket for 50c; 3 baskets for \$1.25; 100 plants not in baskets for \$3.00. Small plants nearly ready to bloom, per dozen, 35c; per 100, \$2.50.

DOUBLE DAISIES.

Grown exclusively for our trade. Assorted colors, plants in bloom. Can be furnished six in a basket for 40c; two baskets for 75c. All by express; not prepaid.

- Longfellow. Pink. Three for 25c.
- Snowball. White. Three for 25c.

BURBANK'S SHASTA DAISIES.

- Alaska. Large white flowers.
- California. Creamy color.
- Westralia. Flowers semi-double, creamy color. Each, 20c; 6 for \$1.00, prepaid.

We also furnish, BY EXPRESS ONLY, Decorative Plants for the Parlor, such as:

- Palms (Kentia), from.....\$1.50 to \$5.00 each
- Palms (Latania), from.....\$1.50 to \$5.00 each
- Boston Ferns, from.....\$0.75 to \$1.00 each
- India Rubber Plants, from...\$1.50 to \$5.00 each

Larger plants of all sizes and descriptions can be furnished on application.

Vegetable Plants and Roots

We have increased our facilities in this line and can fill all orders very promptly. These plants are grown from our selected seed and thus you can depend on genuineness of the plants. The men in charge of the work use great care to produce strong, vigorous plants, and pack them properly. These prices do not include postage. We do not favor having them sent by mail, as they are sure to damage when confined in a close mail pouch.

If by mail, add 6c per dozen; 30c per 100, for postage.

	Per 12	Per 100	Per 1,000
EARLY CABBAGE. From seed bed. Winnigstadt, Jersey Wakefield; ready May 1.	\$0.10	\$0.50	\$4.00
EARLY CABBAGE. Transplanted. Same varieties. ....	.15	.75	6.00
LATE CABBAGE. Hollander, Premium Flat Dutch, Winnigstadt and Red Drumhead; ready in June.....	.10	.40	2.50
EARLY CAULIFLOWER. Snowball, ready May 1. ....	.20	1.00	8.00
LATE CAULIFLOWER. Snowball, ready in June. ....	.15	.75	6.00
TOMATOES. Earliana and Beauty, ready May 1, from seed bed. ....	.10	.50	4.00
TOMATOES. Earliana and Beauty, ready May 1, transplanted. ....	.15	.80	7.00
TOMATOES. Earliana and Beauty, ready May 15, in 3-inch pots. ....	.50	4.00	....
PEPPERS. Ruby King and Cayenne, transplanted, ready May 15.....	.20	1.00	8.00
EGG PLANTS. New York Improved Purple, transplanted, ready June 1... ..	.35	2.00	....
EGG PLANTS. New York Improved Purple, grown in 3-inch pots, ready June 1. ....	.75	5.00	....
EARLY CELERY, Golden Self-Blanching. Ready May 10. ....	.10	.50	4.00
LATE CELERY. Giant Pascal. Ready June 25.....	.10	.25	2.00
SWEET POTATOES. Yellow Nansemond and Yellow Jersey, ready May 15	...	.40	3.50
Can quote special prices on large lots Cabbage and Celery in July.			
ASPARAGUS ROOTS. Good one-year-old roots. Dozen, 15c; 100, 75c; 1,000, \$5.00. Good two-year, old. Dozen, 20c; 100, \$1.00; 1,000, \$7.00; if by mail, add 10c per dozen and 30c per 100.			
Can supply Conover's Colossal, Palmetto and Columbia Mammoth White.			
EARLY ARGENTEUIL. The earliest and largest green asparagus grown. Dozen, 20c; 100, \$1.00; 1,000, \$8.00. If by mail, dozen, 30c; 100 \$1.30.			
ARTICHOKES. True White Jerusalem. Pound, 10c; 3 for 25c; 25 pounds at 3c; 100 pounds, \$2.50. Postage, extra.			
CHIVES. In bunch, sprouted. Each, 15c; dozen, \$1.25. By mail, 10c each bunch extra.			
HORSE-RADISH. Cut 4 to 6 inches long. Dozen, 15c; 100, 75c; 1,000, \$5.50. By mail, add 10c per dozen and 35c per 100.			
MINT. The true old-fashioned Mint for seasoning. Per clump of roots, 25c; by mail, 35c.			
RHUBARB. Large Victoria and Early Linnaeus; cut 1 or 2 eyes to each clump. Dozen, 50c; 100, \$3.00; 1,000, \$20.00. By mail, 35c per dozen extra.			



- RHUBARB, Australian Crimson Winter. Each, 15c; dozen, \$1.00, postpaid. 100 not prepaid, \$6.00.
- SAGE. One-year clumps. Each, 20c; postage, 5c extra.
- TARRAGON. Highly recommended for Tarragon vinegar. Each, 20c; by mail, 5c extra.

Small Fruit Seeds

- CURRENT, GOOSEBERRY, RASPBERRY, STRAWBERRY, BLACKBERRY. Pkt., 10c; oz., 70c.

New and rare varieties of small fruits are often obtained from planting seed; however, the seed does not produce all plants of the same variety as its parent.

WONDERBERRY. This plant is of very quick growth, ripening fruit in three months from time of seeding, and resembles a tomato plant but of more erect form. The dark purple blueberry-like fruit is produced in great abundance. It is very good for making pies and jellies. It requires same culture as tomato. Pkt., 10c; ¼ oz., 25c; ½ oz., 40c.

TREE SEEDS.

EXCEPT WHEN QUOTED BY THE POUND.
PRICES GIVEN INCLUDE POSTAGE.

The growing of forest trees is in the case of some varieties, a very simple and easy process, requiring but little care or skill on the part of the grower. Other varieties require special treatment and great care and attention to insure success, while some are very difficult to grow, and with such planters are not very likely to succeed until after having made repeated failures. One important fact in connection with this subject must always be kept in view, and that is, it takes time for these seeds to germinate, in some cases only a few days, in others several weeks, while quite frequently they will be dormant the whole season before commencing to grow. It often happens that seeds of a given variety, all taken from the tree at one time, sown together and subjected to the same treatment, will show great irregularity in time of germinating, some coming up in a few days, others not until the next season and still others not until the season following.

CONIFERS AND EVERGREENS. Tree seeds should be kept in perfectly dry sand until the time of sowing. If this cannot be done readily, place them in a cool, dry spot, where mice will not eat them. Chestnuts and walnuts should be planted in the fall, or kept during the winter in sand and moss; they shrivel up by too long exposure to the air, and many of them lose their power of germination entirely. Apple, pear and quince seeds, cherry pits, also those with hard shells, like the locust, magnolias, etc., should be planted in boxes with sand and exposed to the frost before planting, otherwise they may not germinate until the second year after planting, but if these seeds arrive too late in the spring to expose them to the action of the frost they may be put into a vessel of hot water for an hour or so before planting. The seeds of other deciduous trees and shrubs, with few exceptions, can be planted from the end of March to the middle of May with great success.

THE SOIL should be deep, rich and mellow. If not rich apply a good liberal dressing of any old, well decomposed manure; mix thoroughly with the soil, rake all down smooth and level and your seed bed is ready. Now draw a line across one side of the plat, and make a shallow trench from a half to one inch deep, according to the size of the seed to be sown; make the trench about six inches wide, scatter the seeds over the bottom, but not too thickly, and cover the seeds to about the thickness of the seeds as evenly as possible, then press the beds gently with the back of the spade to make firm the earth around the seeds.

GREAT CARE must be taken not to give too much water, as the young plants imbibe water very easily. Water with a fine hose, but never so that the ground becomes soggy. Some shade must be used to protect the young plants from the hot sun and drying winds, and also to keep the birds from destroying them.

The trenches or drills are to be two feet apart so that the hoe, or garden cultivator can be used in cultivation. Keep the soil loose between the rows, and keep them clear of weeds. Seeds of the rarer sort may be sown in cold frames, or in boxes; if in cold frames, the sashes should be added and the frames raised at the corners three or four inches to allow air to circulate freely. Allow the young plants to remain from one to two years before transplanting.

For timber claims on our prairies we recommend to plant black Walnut, Catalpa, Russian Mulberry, Ash, Box Elder.

Fruit Seeds.

APPLE. Apple seeds do not produce the same variety but an inferior, though hardy stock. Upon the stock thus raised from the seed are grafted or budded the cuttings of such varieties as are desired. The seed may be planted in good time in any soil during the winter in the South, or early in the spring; it must first be frozen which can be done during the winter by laying the seed in layers in the boxes and covering them with sand and exposing them to the cold freezing weather. After freezing the seed must not be allowed to become dry, or many will be spoiled if deprived of all moisture.

French Crabapple.....lb. 50c; bu. \$12.00

RUSSIAN APRICOTS. The hardest of the Apricots. In its native land it flourishes as far north as the mountains of Duhuria, in Siberia. It was brought to the United States about 1857 by the Russian Mennonites, and was extensively planted by them in their Kansas and Nebraska settlements. Fruit medium sized and of the best quality. Oz. 10c; lb. 60c

QUINCE. Quinces generally produce the same variety from seed, but occasionally vary. The stock is used most for budding and grafting the pear. The fruit is used for preserves, pies, tarts, etc. The mucilage from the seed is often used as a toilet article for the hair. The culture from the seed is the same as the apple. Oz. 20c; lb. \$2.00

MAZZARD CHERRY. Another variety used extensively for grafting. Oz. 10c; lb. 40c

MAHALEB CHERRIES. The remarks regarding apples are applicable to cherries. This variety is considered the best stock upon which to graft the choicest sorts. Oz. 10c; lb. 50c

PEAR. Sow the seeds thickly in the spring in drills eighteen inches apart. The soil should be deep; a rich moist loam is most suitable. The value of the stock depends largely upon a rapid and vigorous growth; take them up in the autumn, shorten the tap root and set them in rows four feet apart, a foot apart in the row. The next season they will be fit to bud or graft, provided they have been well grown. Oz. 15c; lb. \$2.00

MYROBOLAN PLUM. The direction given for planting apples will apply to plums, except they should be planted farther apart in the rows. The varieties raised from seed will be inferior, but hardy, vigorous stock upon which to graft the choicest sorts. Oz. 10c; lb. 50c

GERMAN PRUNES. Treated same as preceding. Oz. 10c; lb. 50c

PEACH. Peach stock is raised by planting the stones two or three inches deep in the fall. If the stones are cracked they are most sure to grow. The after treatment is about the same as apples, though budding can be commenced sooner than grafting in apple stock. Lb. 10c; bu. \$2.00.

Deciduous Trees.

SUGAR MAPLE. This is one of our highly prized native trees. While other sorts are wanted for special purposes, the sugar maple is a general favorite, and no collection would be perfect without it. It is the great sugar tree of America and its yearly product of syrup and sugar amounts to over \$10,000,000 in value. It succeeds well in all soils and locations making a stout, vigorous, rapid growth of hard-wood most valuable for fuel and highly prized for manufacturing purposes. Pkt. 5c; oz. 10c; lb. \$1.00

SOFT OR SILVER LEAF MAPLE. One of the most beautiful of Maples. Is being extensively planted in forests on account of its extremely rapid growth. Its wood is quite soft and light and the branches are often broken down by the action of the wind and storm. The seed ripens in May and cannot be kept over until fall and retain its vitality, hence it should be sown as

soon as possible after it is taken from the tree. Can give prices in May.

WHITE ASH. This is one of the most valuable varieties of forest planting. It is adapted to a wide range of soils and climates. Its growth is extremely rapid, often attaining a growth of six feet in a single season. It is one of the earliest varieties to transplant or to grow from the seed, requiring no more care or skill than the ordinary crop of wheat beans and Indian corn, with the exception that the seed usually lies dormant the first season, but is sure to grow the next year if the ground is not disturbed. Pkt. 5c; oz. 10c; lb. 60c

ASH LEAVED MAPLE OR BOX ELDER. A medium sized tree of extremely rapid growth, not usually attaining a height of over thirty feet. The wood is close and fine grained. The sap contains a large amount of sugar. Pkt. 5c; oz. 10c; lb. 60c

Deciduous Trees—Continued

AMERICAN BASSWOOD OR LINDEN. A large tree of rapid growth, wood soft and white, lumber valuable. The foliage is luxuriant and the flowers produce honey in great abundance.

Pkt. 5c; oz. 10c; lb. \$1.00

AILANTHUS, TREE OF HEAVEN. Introduced from Japan, it has been quite extensively planted in our western states, and is noted for its extremely rapid growth. It grows to a large size, and the foliage has a rich tropical appearance.

Pkt. 5c; oz. 10c; lb. 60c

CATALPA SPECIOSA. Of all the trees that have been suggested as adapted to the formation of timber plantations, the Catalpa stands pre-eminent. It is exceedingly rapid growth, its adaptation to most all soils and situations; its wide range of latitude; its extraordinary success on the western and northern prairies; the ease and certainty with which it is transplanted; the strong vitality and freedom from disease and insects; the incomparable value of its timber; the almost imperishable nature of the wood when used for posts, railroad cross ties and other exposed situations, and the unrivaled beauty of its flowers, all points to the Catalpa as the tree to plant. The yearling catalpa should be cut off above the ground; it will then insure a straight and stronger growth the following season. The same treatment applies on soft and hard maples.

Pkt. 5c; oz. 15c; lb. \$1.00

TEAS JAPAN HYBRID CATALPA. A new variety of wonderfully rapid growth, surpassing any other hardy tree. Most valuable and durable timber; very large and handsome foliage and beautiful flowers. Magnificent shaped trees. Endures extreme heat or drouth, and is free from insects or disease.

Pkt. 5c; oz. 15c; lb. \$1.00

COTTONWOOD. A very quick growing tree, will grow anywhere, lumber not very valuable.

Pkt. 5c; oz. 15c; lb. \$1.00

PAWPAW. Too small to be of any value for timber, but makes a fine ornamental tree and is also cultivated for its fruits, often called the Kansas banana, which when fully ripe is very delicious.

Pkt. 5c; oz. 10c; lb. \$1.00

PERSIMMON. Native hardy trees. Wood very hard and fine grained. It bears a plum-shaped fruit which is very astringent when green, but edible when fully ripe.

Pkt. 5c; oz. 10c; lb. 80c

WHITE ELM. It is the largest of the native elms, often growing to the height of 80 feet. The wood is tough and valuable. It is well worthy of cultivation both for its wood and as an ornament.

Pkt. 5c; oz. 10c; lb. \$1.00

RUSSIAN MULBERRY. Said to be the most valuable for our climate. It is largely planted by the Mennonites in the Arkansas valley mostly for the silk culture. It is easily cultivated, hardy, a good grower, and if kept in dwarf form will make a fine hedge. The berries of the Russian Mulberry are good for dessert. The tree makes good fence posts after five years' growth, and eventually make splendid lumber for cabinet work.

Pkt. 5c; oz. 30c; lb. \$3.00

YELLOW OR BLACK LOCUST. This variety is noted for its rapid growth of hard durable timber. It is hardy and succeeds well in many parts of the country, while in some localities it proves a failure. It is worthy of a trial in any localities where it has not already been tested.

Pkt. 5c; oz. 10c; lb. 60c

HONEY LOCUST. This is a large and handsome tree, the trunk and branches generally set with long and formidable spines, on which account it has been employed as a hedge plant. The wood is heavy and affords excellent fuel, but is not considered durable as timber. Has done well in our state wherever planted. Seeds ought to be scalded before planting.

Pkt. 5c; oz. 10c; lb. 60c

OSAGE ORANGE. A native of Texas, but has been generally introduced over the country, because of its extensive employment as a hedge plant. The best way to prepare the seed for planting is to soak it in a running creek until it commences sprouting, then plant it like any other seed. Another way to sprout it is by putting it in a vessel, and covering it daily with warm water, until the sprouts come up. We prefer the first method. Proper time to sow in April or May.

Pkt. 5c; oz. 15c; lb. 60c

TREE CRANBERRY OR SNOWBALL. Native. Small tree or shrub. Is ten or twelve feet high at maturity and produces its showy white flowers in large balls or masses in June.

Pkt. 5c; oz. 25c; lb. \$3.00

LILAC. Well known flowering shrub, highly ornamental.

Pkt. 5c; oz. 10c; lb. \$2.00

BLACK WALNUT. One of the most valuable varieties for timber planting. A large tree of rapid growth. It delights in rich soil and luxuriates in our prairie loams or timber land clay. Its lumber has a very high market value and is becoming very scarce. Its nuts are a very well known article of commerce.

Lb. 10c; bu. \$1.50

SHELL BARK HICKORY. This species becomes a lofty tree eighty feet in height with a diameter sometimes of two feet. It furnishes most of the hickory nuts of commerce.

Lb. 15c; bu. \$3.00

Evergreens

EUCALYPTUS GLOBULUS—BLUE GUM.

Remarkably quick growing, especially adapted to Southern states. It absorbs malaria and fever germs. Does best when started in seed beds, then transplanted to open ground. Height, 150 feet.

Pkt., 10c; oz., 50c; ¼ lb., \$1.50; lb., \$5.00

We make a specialty of collecting Evergreen Parties intending to purchase quantities will do

ABIES CONCOLOR—Balsam White Fir. A very handsome tree growing to a good size.

Oz., 35c; ¼ lb., 90c; lb., \$3.00

ABIES DOUGLASH—Douglas Red Spruce. Rapid growing and ornamental, of pyramidal habit.

Oz., 40c; ¼ lb., \$1.25; lb., \$4.00

PICEA ENGELMANNII—Engelmann Spruce. Similar to Colorado Blue Spruce, but grows larger with needles less rigid and sharp.

Oz., 40c; ¼ lb., \$1.30; lb., \$4.25

PICEA PUNGENS—Colorado Blue Spruce. A most desirable conifer, with silvery foliage, for lawns. From selected blue trees only.

Oz., 40c; ¼ lb., \$1.25; lb., \$4.00

PINUS FLEXILIS—Lumber Pine. A handsome tree of compact habit and dark green foliage. Wood white, soft and easily worked.

Oz., 25c; ¼ lb., 75c; lb., \$2.50

EUCALYPTUS TERETICORNIS—GRAY GUM.

A rapid grower and erect. Wood durable and useful for shingles, flooring, street paving blocks, etc., will last for ages. It is also a good honey producer. Height, 200 feet.

Pkt., 10c; oz., 75c; ¼ lb., \$2.00; lb., \$7.00

tree seed from the Rocky Mountain districts. well to write us for prices.

PINUS PONDEROSA—Yellow Pine. Grows to an enormous size, with luxuriant foliage.

Oz., 25c; ¼ lb., 75c; lb., \$2.50

PINUS BANKSIANA—Jack Pine. Gray Pine. This species of pine is the best adapted to sandy soils. It grows more rapidly than most conifers and is a useful small tree for wind-breaks. It is used for fuel and coarse lumber and when treated with chemical preservatives makes fair posts or ties.

Oz., 50c; ¼ lb., \$1.50

RED CEDAR. Grows in all sections; very valuable timber; a fine ornamental tree. After properly planting out the Red Cedar requires less care and will stand more neglect than any other evergreen.

Oz., 10c; ¼ lb., 30c; lb., \$1.00

JUNIPERUS ARGENTEA—White, or Silver Cedar. A native variety of cedar, with silvery foliage.

Oz., 20c; ¼ lb., 60c; lb., \$2.00

JUNIPERUS MONOSPERMA—Dwarf Trailing Cedar. A very hardy trailing evergreen.

Oz., 20c; ¼ lb., 60c; lb., \$2.00

Ask for our pamphlet—The Growing of Deciduous Evergreen and Fruit Trees from Seed—sent free.

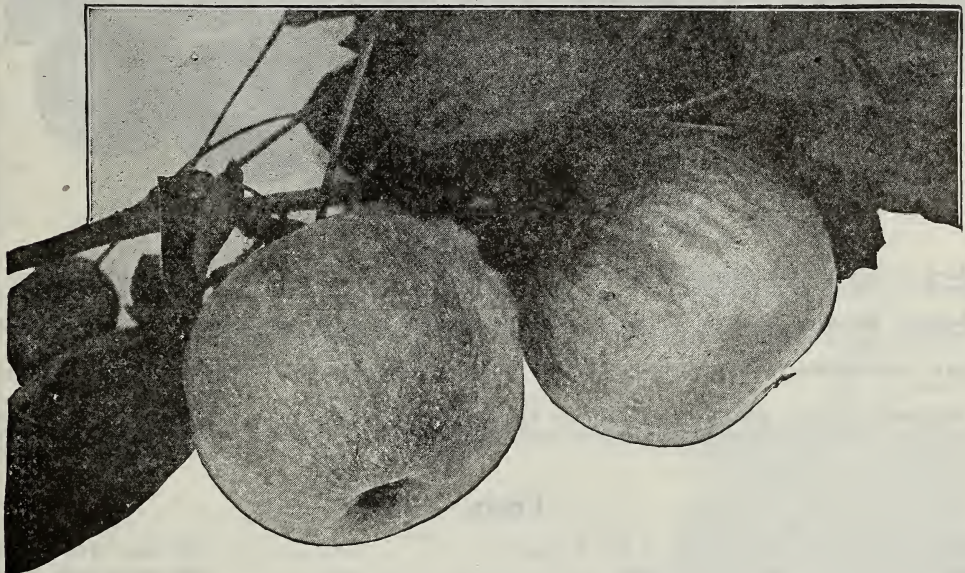
FRUIT AND ORNAMENTAL TREES

We are giving special attention to nursery stock this season and it will pay you to invest in our line. We will furnish first class stocks only and in ordering from us you will get the very best to be had.

PRICES: It is easily understood that the cost of producing stock is about the same for one nursery as for another. Where we have the advantage is in the cost of selling. Where you buy from an agent you have to help pay his salary or commission and also his traveling expenses. In buying from a Nursery mail order house you must help pay for the entire nursery catalog. As we are already printing our seed catalog it costs us very little more to include the nursery stock, and therefore our cost of selling is practically nothing. Take advantage of this and get first-class stocks at the very lowest possible prices.

TERMS: Our terms, as for seed orders, are cash with order, prices include packing in first-class manner and delivery at express or freight office here, purchaser to pay transportation charges.

Apples.



PRICES OF ALL VARIETIES.

Standard—First-class, 5 to 6 feet.....	.35 each	\$3.00 per 10	\$25.00 per 100
Standard—2 years, 4 to 5 feet.....	.30 each	2.75 per 10	22.00 per 100
Standard—2 years, good, 3 to 4 feet.....	.25 each	2.00 per 10	17.00 per 100

YELLOW TRANSPARENT. A Russian apple of splendid quality. The hardiest and finest early summer apple grown. Ten days earlier than Early Harvest. Fruit large, pale yellow, sub-acid. This variety is one of the best market sorts.

WEALTHY. Highly valued for its extreme hardiness at the far north. Tree thrifty grower and good bearer; fruit medium; roundish; skin smooth, oily, mostly covered with dark red; flesh white, fine grained, juicy, sub-acid, good. September and October.

STAYMAN WINESAP. A seedling of Winesap, originating at Leavenworth, Kansas, with the name Dr. J. Stayman. Dark, rich red, indistinctly striped. Flesh firm, fine grained, crisp, juicy and very tender; rich sub-acid; quality the very best. Tree a stronger grower than Winesap; a mouth resister, and will thrive on most any soil. A more regular bearer than Winesap, hangs longer, and keeps fully as well and in quality is far superior.

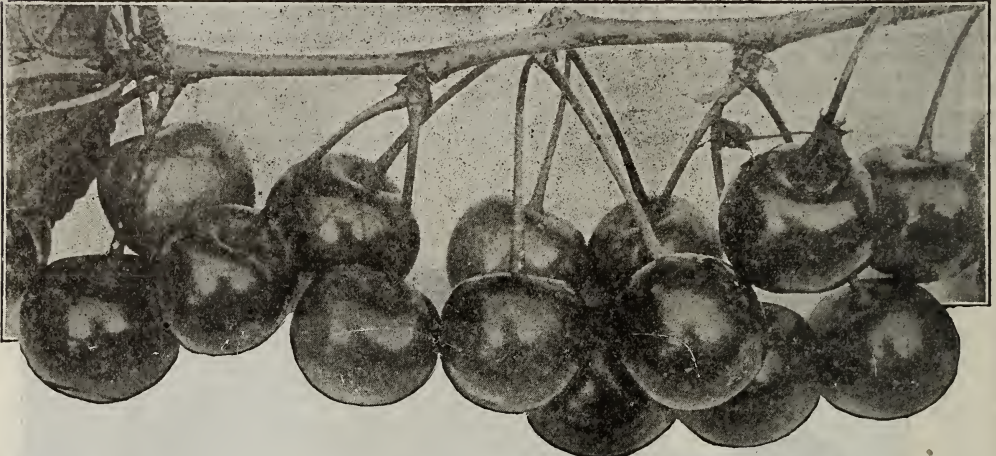
GRIMES' GOLDEN. This is one of the best popular apples in cultivation. Tree strong, thrifty grower, with spreading branches; fruit medium or above, cylindrical, regular surface, yellow veined, russeted, flesh yellow, firm, very fine grained, juicy; flavor sub-acid; quality rich; for dessert, cooking and market.

MAIDEN BLUSH. This is the favorite Fall Apple tree, vigorous, upright, spreading, very productive; fruit medium to large, flat and very handsome; surface smooth polished, pale waxen yellow, with rich blush; flesh white, fine-grained, juicy; quality good; for cooking, table and market. August and September.

JONATHAN. Tree of rather slender growth and spreading habit, fruit medium or above in size, round or oblong; surface very smooth, waxy yellow; often wholly covered with brilliant red; flesh whitish yellow, tender, very juicy, for dessert and cooking; also one of the most profitable market apples; quality best; a genuine favorite. October and November.

ROME BEAUTY. Tree thrifty, upright grower, fruit large to very large, roundish, oblate, sometimes conical; surface smooth, pale yellow, striped and mixed with red; flavor sub-acid, not rich; quality good; desirable market fruit on account of its productiveness and fine appearance. November to January.

Fruit and Ornamental Trees—Continued
Cherries.



PRICES OF ALL VARIETIES.

- Standard—2 years, first class, 5 to 6 feet.....60c each; \$5.00 per 10
- Standard—2 years, well branched.50c each; \$4.00 per 10
- English Morello.** Medium to large, roundish; dark red, nearly black when ripe; flesh purplish red, meaty, juicy, slightly astringent and good; very productive. August.
- Large Montmorency.** Large, round, slightly heart-shaped; dark red, becoming nearly black when fully ripe.
- Ostheimer.** Large, heart-shaped, almost black when ripe; full of purple juice, exceedingly rich less acid than English Morello; good dessert and unsurpassed for kitchen uses. Very hardy and blooms late.

Pears.

- Standard—First-class, 5 to 6 feet, 2 and 3 years.....50c each; \$4.00 per 10
- Standard—Medium, 4 to 5 feet, 2 years.....40c each; \$3.50 per 10
- Dwarf Pear—First-class, 4 to 5 feet.....50c each; \$4.00 per 10
- Dwarf Pear—Medium, fine, 3 to 4 feet.....40c each; \$3.00 per 10
- Dwarf Pear—Light, 2 to 3 feet.....30c each; \$2.00 per 10

Standard Pears.

- Bartlett.** S. and D. An old favorite, more generally known and highly esteemed than any other sort. Tree thrifty, upright grower; fruit large, irregular, pyramidal; skin thin and smooth, clear yellow, sometimes with faint blush on the sunny side; flesh white, fine grained, buttery, juicy, sweet; quality best. August and September.
- Flemish Beauty.** Fruit large; skin a little rough, pale yellow, mostly covered with patches of russet, becoming reddish brown at maturity on the sunny side; flesh yellowish white, juicy and rich. September. One of the best.
- Kieffer.** Very large, deep yellow with russet dots, juicy, sweet, coarse; immensely productive fruit must be thinned to get the largest size. Fine for canning. Said to be blight proof. October and November.

Also: Seckel, Clapp's Favorite, Lawrence, Buerre de Anjou, Howell, Garber, Rutter, etc.

Plums.

- 1 year, 4 to 5 feet, 35c each; \$3.00 per 10. 2 years, first class, 5 to 6 feet, 45c each; \$4.00 per 10
- 2 years, medium, 4 to 5 feet, 25c each; \$3.00 per 10.
- Lombard.** Perhaps the best of the European varieties now in cultivation. Tree vigorous, hardy and productive; fruit of medium size, roundish-oval, slightly flattened at the ends; skin delicate violet-red, paler in shade; flesh deep yellow, juicy and pleasant. August.
- Imperial Gage.** Large pale green, juicy, rich, sweet and excellent.
- Damson.** Fruit small, oval; skin purple, covered with blue bloom; flesh melting and juicy; rather tart, separates partly from the stone. September.
- German Prune.** A large, long, oval variety; much esteemed for drying; color dark purple of very agreeable flavor. September.

Fruit and Ornamental Trees—Continued

Ornamental Trees.

	Each	Per 10		Each	Per 10		
Ash, American.	6-8 feet	\$0.70	\$ 6.50	Maple, Sugar.	5-6 feet	\$0.60	\$6.00
Catalpa Speciosa.	6-8 feet	.70	6.50	Maple, Silver Leaf.	5-6 feet	.45	4.00
Elm, American.	6-8 feet	.65	6.00	Maple, Silver Leaf.	6-8 feet	.65	6.00
Box Elder.	6-8 feet	.65	6.00	Poplar, Carolina.	6-8 feet	.65	6.00
Linden, American.	6-8 feet	.65	6.00	Poplar, Lombardy.	6-8 feet	.65	6.00

SMALL FRUIT PLANTS

Prices are for plants by express, not prepaid. Plants will reach customers in a better condition if sent by express.

We have facilities whereby we can supply from reliable growers the following stock:

CURRENTS.

La Versailles. Very large red, with long bunches.

Red Cherry. An old favorite. Very vigorous and productive, though bunches are short.

Price, each, 15c; 5 for 65c; dozen, \$1.40, by express.

If by mail, add 30c per dozen for postage and extra packing.



RASPBERRY—MARLBORO.

GOOSEBERRIES.

Downing. A large handsome pale green. Splendid for both cooking and table use.

Houghton. A small, roundish, sweet and tender berry. Enormously productive.

Price, each, 15c; dozen, \$1.50, by express. If by mail, add 30c per dozen for postage and extra packing.

RASPBERRIES.

If by mail, add 20c per dozen for postage and extra packing.

Gregg Black Cap. A large, black raspberry of excellent quality, very productive and hardy.

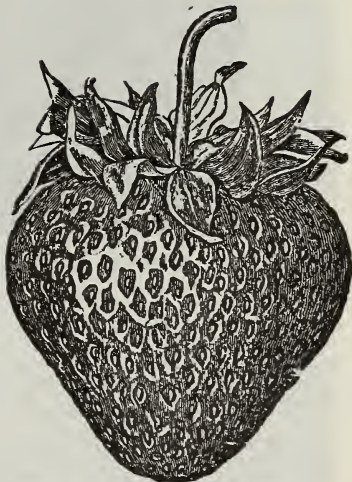
Cuthbert. A remarkably strong, hardy and very large variety. Stands our winters well by covering. Berries are large, rich crimson.

Marlboro. Large size, early, light crimson color; very fine and hardy. An excellent variety for shipping. Price for either, 12 for 50c; \$2.50 per 100; \$18.00 per 1,000, by express.

STRAWBERRIES.

The following varieties have all perfect flowers and will succeed in any soil that is adapted to ordinary garden crops. They are best adapted to Colorado and the entire West. **Juncudas, Captain Jack, Senator Dunlap, Aroma, Shipper's Pride.**

Prices for any above varieties, not prepaid. Dozen for 15c; 100 for 60c; 1,000 for \$5.00. If by mail, add 10c per dozen; 30c per 100 plants. When by express plants are more satisfactory. Ready in April and May, also September.



STRAWBERRY—SENATOR DUNLAP.

Grapes.

Concord. 10c each; 75c per 10; \$5.00 per 100
Other varieties. 15c each; \$1.25 per 10; \$9.00 per 100

Concord. (Black.) Too well known to need much description; is considered by many to be the best all around grape grown; is extremely hardy, vigorous and productive, bunches large, compact; berries large and juicy, buttery and sweet; will succeed well almost anywhere.

Brighton. (Red.) Bunch medium to large, quite compact, flesh rich sweet, and best quality, color dark crimson or brownish red; vine vigorous and hardy.

Moore's Early. (Black.) Bunch large, berry round with a heavy blue bloom, quality said to be better than Concord; hardy and prolific; a good market berry; ripens about two weeks before Concord.

Niagara. (White.) One of the leading white sorts; bunch large, shouldered, compact; berry large, yellowish-white, juicy, vinous and sprightly, quality good; skin tough, making it a good shipper and market berry.

When large quantities of any above are wanted, write us in regard to same.

FIELD AND FARM SEED DEPARTMENT

The prices of all Field and Farm Seeds are those ruling January 1, 1915, and are subject to change. As far as possible we will fill all orders at prices quoted, but if market values will not permit, we will send all that money remitted will pay for. Our latest price list will be sent free for the asking.

We give special attention to our Grain Seeds, procuring from reliable growers who select for seed. Our process for cleaning is nearly perfect. When grain seeds are shipped in seamless sacks we charge 25 cents each extra. Price for all varieties, except where noted, 6 lbs., for 25¢. For larger quantity ask for our latest price list, sent free.

If wanted by mail, add postage.



NEW MARKET, SWEDISH SELECT, 1,000 TO 1, KHERSON, RED RUST PROOF.

Oats

No crop gives better results by change of seed than oats. If you have been re-seeding the same strain for several years, now is the time to change. Do not compare our select strains, re-cleaned, with the common oats frequently offered as seed oats.

Sow 50 to 65 lbs. per acre; on dry land 30 to 35 lbs.

NEW MARKET. Is one of the most desirable oats to raise. It grows very erect on large stiff, nutritious stems, producing long heads filled with large, handsome, soft, bright colored kernels, which do not get hard and tough as most oats do. It is early, maturing a good crop in 116 to 120 days at 6,700 feet altitude, and a good yielder. We recommend it very strongly.

SWEDISH SELECT. A very hardy variety, specially recommended for the North. Owing to its great root development it withstands drouth very well. The grain is short, plump, white and very heavy, averaging 40 lbs. per bushel.

THOUSAND TO ONE. This is one of the best oats for dry farming. It is medium early, stands drouth well, and has produced 40 and 50 bushels per acre in dry seasons. The stalks are strong, leafy and grow about 4½ feet high. Kernels are white, short, numerous and plump.

NEW KHERSON. It is one of the earliest oats grown and is sometimes called "90 day oats" as it has ripened crops in 80 to 90 days. It is the very best variety to grow in the mountains and in short season districts. The plant is vigorous, but of a dwarf habit, straw being shorter than other varieties; the leaves are broad and expose a large surface. The panicles are spreading and the berries are light yellow, small but numerous and have a very thin hull. It is a good cropper and generally weighs well per bushel.

RED RUST PROOF. Not extensively grown, though highly recommended by those who have grown it, and is now becoming popular in Kansas, New Mexico and in Southern Colorado. It is a sure cropper, a heavy yielder, rust proof, and perfectly hardy. In some localities it is sown in fall similar to winter oats.

Barley

Sow 60 to 90 lbs. per acre; on dry land 40 to 50 lbs.

White Hulless Barley or Naked, Beardless Barley

This has proved to be the most valuable barley to the stock raisers. It is not a malting variety, but for feeding purposes no other barley can compare with it in earliness, yield and quality. The absence of beards make it safe to feed to all kinds of stock. It will mature in 70 to 90 days, according to locality. It is sometimes used as a catch crop. It is very hardy and a great drouth resister, having matured crops in same fields where wheat failed entirely. The grain is very heavy, weighing from 60 to 63 lbs. to the measured bushel. It will yield from 35 to 70 bushels to the acre. Its nutritive value is so great that 2 quarts is almost equal to 4 quarts of oats. It is also very valuable for feeding poultry, hogs, etc. It is often grown for hay, coming early and providing rich feed. It should be cut just before it becomes ripe and while the straw is green. In this condition it is relished by all kinds of animals. The straw is stiff and straight and seldom if ever does it lodge. Grows very rank and vigorously and thrives even at altitudes of 8,000 to 9,000 feet. As there is a species of Naked Barley, which has a beard, be sure to get the light colored Barley if you want the beardless. On account of its rank growth it requires less to sow an acre.

CALIFORNIA, OR FEED BARLEY. This is a very hardy kind, producing very large, coarse, bearded heads and an abundance of fodder. It is not used for brewing but makes the best green feed. It is used extensively in California, and is an excellent grain producer in Colorado. Stockmen are demanding it.

SCOTCH—Both 4 and 6-rowed. This is the staple variety for brewers. It is good for feeding, not having as long beard as some other kinds. The objection of beard for feeding can be prevented to a certain extent by cutting when grain is in the dough.



BEARDLESS BARLEY.

Spring Wheat

Sow 60 to 80 lbs. per acre on irrigated land; 40 to 45 lbs. on dry land.

Pedigreed Regenerated Defiance Wheat

The strain of Defiance Wheat, which was so much improved by Prof. A. E. Blount, of the Colorado Experiment Station, some 20 years ago, has now lost most of its good qualities through lack of seed selection, careless methods of threshing, seedling, irrigation and following grain with grain.

Prof. Blount, during his period of improvements, had increased the size of heads from 3 inches to 5 inches and the number of kernels from 21 to 43 on an average.

In 1903 Mr. A. H. Danielson, Assistant agriculturist at Colorado Agricultural College, having found a stock of pure defiance wheat left by Prof. Blount, started again the growing of improved defiance Wheat, and we have secured again a limited amount of genuine Regenerated Defiance Wheat, which we offer to our customers in sealed bags only. This wheat has been approved by the secretary of the Colorado Grain and Seed Growers' Association and given a registration number.

BUY REGENERATED DEFIANCE WHEAT and increase your profit as the yield will not only be larger, but the better grade of grain will command a much higher price.

Prices, 10-lb. sealed sack, 65c; 25-lb. sealed sack, \$1.00.

Ask for market price on large quantity.



BLUE STEM, REGENERATED MACARONI DEFIANCE.

Spring Wheat—Continued

DEFIANCE. Ordinary stock, good seed and cleaned, but not to be compared with our Blount's Regenerated Defiance.

BLUE STEM. This variety has no beard and is very productive. The green stems have a beautiful blue color which disappears as the wheat ripens, when the stems and straw assume a golden-yellow hue. It is free from rust and its kernel is hard.

MACARONI WHEAT "Kubanka." The wheat for dry farming. This wheat leads all others for our Western country as it not only resists extremes of weather, but will mature a good crop where other kinds fail entirely. It grows so rapidly and strong as to get well ahead of the weeds and does well on poor ground. The berry is very hard, glossy and large, and will weigh as much as 63 lbs. per bushel. The head is compactly formed and bearded, the straw is very strong, the grain does not shell or bleach and this wheat is so hardy as to be almost smut and rust proof. Not very desirable for milling, but unequaled for feeding.

Winter Wheat

Sow 30 to 35 lbs. on dry land.

TURKEY RED. This is the best winter variety for this part of the country. It is medium hard, bearded, and producing long heads. In color it ranges from dark to light red. The grain is large and less liable to shell out than most varieties. It stands drouth and open winters very satisfactorily, and is a heavy yielder.

SILVER KING. Liked on account of being beardless. It is medium hard, light red, of good weight, heavy cropper and winters very well. Is growing in favor quite rapidly.

Speltz or Emmer

It makes a good crop with almost any condition of the soil and climate.

Sow 70 to 80 lbs. per acre; on dry land 40 to 45 lbs. It is neither wheat, rye nor barley, and yet it appears to be a combination of these. It is more like wheat than any of the others mentioned. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of other grains, in fact, all kinds of animals seem to thrive on it. Speltz is claimed to be ahead of corn, superior to oats and more profitable than wheat. Yields 80 to 100 bushels of grain and as much as 4 tons of good hay per acre. Excellent for pasture and can be fed in the green state. As green grass hay food it often gives 100 leafy stalks from one seed, which shows its heavy stooling properties. The heads are somewhat similar to two-rowed barley, the spikelets being separated from each other in such a manner that the crop is not easily injured by the weather. Will grow well and produce enormous crops on land where wheat will not grow.

Improved Winter Emmer

A NEW GRAIN FOR STOCK FEEDING.

The original Winter Emmer was introduced from Russia by the U. S. Dept. of Agriculture. The Improved is larger, darker in color, heavier in straw and head, is much more hardy, and has larger stooling power than the original type.

It is one of the best drouth and cold resisting winter grains. Many of the heads double the spikelets, giving the appearance of composite wheat; can be grown either by irrigation or by dry farming methods.

Sow at the rate of 1 bushel (40 lbs.) per acre, in September or October, that the grain may come up before freezing weather sets in. If you irrigate, do it before sowing or just before winter sets in. One or two harrowings in early spring will help the grain and it will be ready to harvest late in June or early in July. It should be cut before it gets too ripe and dry.

Price, 15c per lb.; 3 lbs. for 30c.

Rye

Sow 60 to 80 pounds per acre; on dry land 30 to 40 pounds.

SPRING RYE. Is a quick growing crop which will give a good early pasture and later on a good cutting of hay or a grand crop of grain. Please note that in ordering spring rye we offer what is furnished us as spring rye, but make no guarantee for same.

FALL OR WINTER. It is a good crop for early fall or spring pasture, as it keeps green a long time in the fall, and starts growing again as soon as the weather gets a little warm. Does well in any kind of soil. There is always a good market for good fall rye for seeding purposes.

Grass Seed Mixtures

FOR MEADOWS AND PASTURES.

It is a well ascertained fact that a thicker and more prolonged growth is produced by a mixture of many sorts of grasses that are especially suitable. Some sorts do best on high ground, and in dry weather; others prefer plenty of moisture. Some mature so early, and others so late, that from the beginning of spring until winter sets in there is no time when one species or another is not at its best.

In the matter of preparing the soil for pastures it is necessary to put the ground in the best condition possible to get the best results. The soil should be perfectly even after sowing the seed. You will find that cross harrowing will be to your advantage, as it has a tendency to scatter the seed more evenly. The following mixtures will be found desirable to use for permanent pastures, as they are properly proportioned for their different uses:

For Wet Lands use Barteldes' Pasture Mixture No. 1. 1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

For Light Sandy Soil use Barteldes' Pasture Mixture No. 2. 1 lb. to 10 lbs., 25c per lb.; 25 lbs. at 21c per lb.

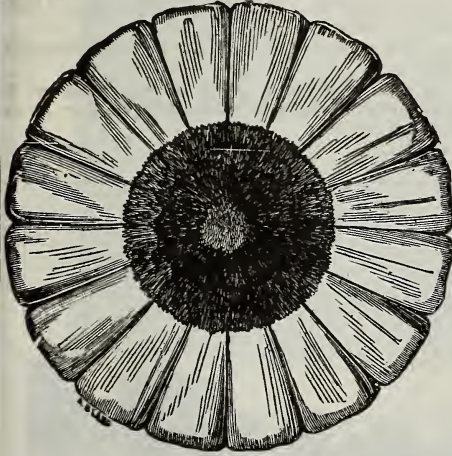
For Irrigated Lands use Barteldes' Pasture Mixture No. 3. 1 lb. to 10 lbs. at 25c per lb.; 25 lbs. at 20c per lb.

Sow liberally of either of above to get best results, using 30 to 40 pounds per acre. Ask for prices on large quantities.

SELECTED SEED CORN

Postage, 8c per pound. 8 lbs. of the small kernel varieties or 10 lbs. of the large varieties, will plant an acre.

PRICES:—Liberal Packets, 5c; pound, 10c; 3-pound package, 25c. When wanting in large quantity ask for latest market prices.



AUSTRALIAN WHITE FLINT (90 Days).

The earliest and surest variety we have for Colorado and the arid lands of the West. It will actually endure more drouth and cold than any other variety known. Grows to a height of 4 to 6 feet, ears varying from 8 to 12 inches long, usually 8 or 10 rowed, one and two ears to a stalk.

PRIDE OF THE NORTH (90 Days).

Planted as late as July 4, it has fully matured by October 1. The ears have from 14 to 16 rows, 8 to 10 inches in length, slightly tapering. The kernels are closely set together on the cob, of a light orange color. The stalks usually grow 6 to 8 feet in height, producing one or two good ears.

SWADLEY (90 Days).

It is nearly as hardy as White Australian, and fully as early, and yields more matured corn. We are firmly convinced that it is the corn for uplands and worn out soils, where it produces 35 to 50 bushels of ears per acre. It stands drouth nearly as well as White Australian. It is much softer kernel, being a pale yellow dent. The ears will average 8 inches long, 12 to 16 rowed. One-third of the crop will yield two ears on a stalk, maturing

in 90 to 100 days. Six pounds of seed will plant an acre, 3 feet, 8-inch checkrows. This is the corn for our short season districts. Give it a trial, you will be pleased.

COLORADO YELLOW DENT (90 Days).

An early Dent variety, ripening with the Flint varieties, and can be grown in almost any locality. Stalks large with broad leaves, ears 8 to 10 inches, 16 rowed, grain yellow.

IMPROVED LEAMING (90 Days).

This is one of the earliest large yellow Dent corns in cultivation, ripening in 90 to 100 days from planting. It is extra early, and not a hard, flinty corn. The ears are large and handsome, with deep, large grains; orange color and red cob.

CALICO (90 Days).

The earliest field corn grown. Growth rather short, but stalks are very leafy. The ear is small and long and grains are peculiar, some being red, blue and white on the same cob. Stands drouth very well.

SQUAW (90 Days).

Extremely early and of very dwarf habit; stands drouth as good as White Australian; average length of ears, 7½ inches; seed of dark purple color and sugary; makes good roasting ears.

CHAMPION WHITE PEARL (100 Days).

The stock is short and thick. The ear grows low on the stalk, from 10 to 12 inches in length, almost parallel throughout, of medium size, averaging 16 rows of grains. The grains are pure white, very deep, compact and heavy. The cob is small. It makes a superior quality of corn meal.

IOWA SILVER MINE (95 Days).

The stalk grows to a height of 7 or 8 feet, and set the ears about 3½ to 4 feet from the ground. The ears measure from 10 to 12 inches in length and often weigh 1½ pounds. They are very uniform in size and shape, with 16 to 20 straight rows of deep, pure white kernels on a small white cob.

IOWA GOLD MINE (95 Days).

Similar to above, except in color, which is a bright golden yellow.

HICKORY KING (110 Days).

This new white corn is entirely distinct from all other varieties, having the largest grain with the smallest cob. It yields greater, and is unquestionably the most productive white field corn. Stalks bear two good ears each, and occasionally three. It never has barren stalks, no matter how thin the soil, and both ends of the ear are filled out full.

GOLDEN BEAUTY (110 Days).

The ears are of perfect shape, with from 10 to 14 straight rows of bright golden yellow grains, remarkable in size and filled out completely to the extreme end of the cob. The richness of color and fine quality of grain make it vastly superior for grinding into meal.

BRAZILIAN STOOING FLOUR.

This corn stools like wheat, each kernel producing from five to eight stalks, each stalk bearing two or three ears, five to seven inches in circumference, nine to twelve inches in length, color beautiful white. It is one of the best varieties for ensilage. It yields four times more fodder to the acre than common corn, and more bushels in shelled corn. It contains a much larger quantity of starch than any other corn and, ground and bolted by the same process as wheat, gives a finer flour for bread, biscuits, etc., than that made of wheat flour; also used largely for roasting ears. Four lbs. will plant one acre.

EUREKA ENSILAGE CORN.

This is the very best corn for ensilage. It stools like wheat, grows 6 to 10 feet high with an abundance of leaves; is sweet, tender, juicy, and contains more nourishment than other corns. If planted at the proper time and under ordinary conditions, makes more fodder and ensilage than any other variety, and it matures to the ensilage stage before frost.

POP CORN.

	Pkt.	Lb.	3 lbs.
WHITE RICE. Kernels long, pointed, and resembling rice.	\$0.05	\$0.10	\$0.25
QUEEN'S GOLDEN. Yellow seed, pops very large. . . . .	.05	.10	.25

GRASSES FOR PASTURES

Postage 5c per pound extra.

We have men in our employ who make a study of grasses adapted to our Western country. Write us about your soil.

Particular attention is given to our Grass Seed Department. These seeds are selected with special reference to quality. Every exertion made to furnish Grass and Field seeds, **fresh, pure and free** from noxious and foreign seeds. Our Red Clover, English Blue Grass, Timothy, Alfalfa etc., are all reclaimed by best machinery, to make them choice.

We cannot print prices of large quantities as they are subject to variations, but purchaser may depend on getting them at prices ruling that date.

Market prices of the day or special prices on large lots cheerfully given on application. Express or freight charges always to be paid by the purchaser, except if sufficient money is sent to prepay them. Two bushel seamless bags, with seed, 25c each.



ALFALFA.

There is more money in alfalfa and corn for live stock than in any other crops in the world. Alfalfa is now raised in every state in the Union but it is here in the middle west that it is raised most extensively. Its use as a forage plant has increased wonderfully the last few years and the three and four crops of hay that it produces every year are adding immensely to the wealth of the country. Hon. J. C. Mohler, Secretary of Kansas State Board of Agriculture, is a great booster for Alfalfa, and especially for quality in Alfalfa Seed. Mr. Mohler is certainly in a position to know the facts about this crop.

Alfalfa is essentially a dry land forage plant but will do well in any soil except a wet one. It has a tremendous root system and it has been generally believed that this root system gathered the moisture from great depths. Experiments now tend to prove that Alfalfa gets a good bit of moisture from the air and that the long roots are in search of food supplies. At the same time the fact remains that Alfalfa makes fine crops of hay on very little rainfall.

Besides producing from 3 to 10 tons of the best kind of hay, Alfalfa gathers nitrogen from the air and stores it in the soil. Here then is a way to fertilize your soil and at the same time get a big profit from the crops. With all its advantages, Alfalfa has only one disadvantage and that is that it will not do well on wet land. Here the weeds get ahead of it and choke it out. Another point of great importance is that Chinch Bugs do not bother Alfalfa.

Alfalfa can be sown either in the fall or spring and from 15 to 20 pounds of good seed will sow an acre. If sown too thin the stalks become coarse and woody. We would be very glad to mail you a copy of our Alfalfa Booklet which gives full information about sowing and handling this crop. This book is free.

Lb. 25c. Ask for latest prices when quantity is wanted.

Turkestan Alfalfa

It is claimed to be more hardy, enduring extreme cold and a wonderful drought resister. 1 lb., 10c; lb., 25c. For larger quantities ask for price.

Grimm's Alfalfa

Grimm's is the hardiest strain of Alfalfa known in this country. It stools very heavily and the value of this characteristic can hardly be overestimated as it not only affords immunity from winter losses, but the protected underground buds are less liable to injuries from over-pasturing or attack from grasshoppers. The spreading crown seems to be associated with a very much branched surface root system, in addition to the deep tap root. This makes surface moisture easily available.

Lb., 60c. Ask for price on large quantity.

CLOVERS AND GRASSES.

Klee-und-Grass Saaten.

Troboles y Gramineas.



White Flowered Sweet Clover. (Melilotus Alba.)

Sweet Clover has suddenly sprung into popular favor. For a long time it had been regarded as a pest, but now a place has been found for it and in its place it is a very valuable plant.

Sweet Clover is valuable because of its ability to grow and thrive on the poorest and most barren places. It will not only thrive on soils that are too poor for any other crop but will improve the soil it is growing on. It makes good hay and good pasture, although cattle do not always take to it at first. It resembles Alsike Clover in that it can grow on moist soils.

Its ability to improve the soil, together with its ability to thrive on very poor soils, makes it especially valuable as a pioneer crop on poor, run down, badly washed fields. The seed can be sown either in the fall or spring and about 20 lbs. of the hulled seed and 25 lbs. of the unhulled seed is required per acre.....Per lb. 30c

ALSIKE CLOVER. (Trifolium hybridum.)

Alsike Clover is especially valuable for growing on wet or swampy land. If you have a piece of land that is too damp for Alfalfa or other clovers or grass sow a mixture of about four pounds of Alsike Clover and ten pounds of Red Top Grass Seed. This will make an excellent crop of hay.

Alsike Clover is very hardy, is perpetual, will withstand drought and will not winter kill. About six to ten pounds will sow an acre and as the seed is very fine it should be covered only slightly. For bottom lands needing drainage but not subject to overflow an excellent mixture is as follows: Four pounds of Red Clover, two pounds of Alsike Clover and ten pounds of Timothy. This quantity is for one acre. Lb. 30c

RED CLOVER. (Trifolium pratensis.)

Red or Medium Clover has long been considered the most important of the clover family. It is valuable both as a hay crop and a pasture crop and is also beneficial to the soil. It is a well known fact that grain crops will yield more when they follow clover. It is very valuable for enriching wornout soils but the trouble is that the soil is generally too much exhausted before the clover is sown. The better plan is to rotate your crops with clover so that the soil will not become too badly run down.

The common mixture both for hay and pasture is eight pounds of Clover and ten pounds of Timothy per acre. To get the best hay Red Clover should be cut when just past the blooming stage, but in consideration of a second crop it is often necessary to cut the first crop a little sooner.

The selection of the seed is of greatest importance. Buckhorn is found in nearly all clover seed and is to be avoided whenever possible. Our Columbine Grade is especially selected for purity and can be depended upon.

Red Clover will grow on any good corn land and when sown by itself the soil should be put in first class condition. It can be sown either in the spring or in the fall, but as it is not drought resistant in the early stages the

moisture should be conserved as much as possible. It is generally sown broadcast at the rate of 12 to 15 lbs. to the acre.....Per lb. 25c

WHITE CLOVER. (Trifolium repens.)

White Clover is excellent for pasture and is especially valuable for mixing with Kentucky Blue Grass both for lawns and pasture. A few pounds of White Clover should be in all permanent grass seed mixtures as it helps fill up the bare spots and is very nutritious. White Clover will disappear at the approach of very hot weather but will come back again with rains or seasonable weather. It is very hardy and is a perennial. Sow five to eight pounds per acre.Per lb. 50c

CRIMSON CLOVER. (Trifolium incarnatum.)

An annual variety in common use in Italy and southern France for feeding green. Also largely grown in this country in Virginia. A good portion is now being used in Texas and adjoining states. Two to four weeks earlier than the Red Clover, and for that reason being more desirable. Immense yielder of fodder. Commences to grow at once after cutting and continues to do so until after frost. Height 1 foot; roots nearly black, and blossoms long and of deep carmine color. Makes good hay. Sow in the fall in southern country. Sow 15 pounds to the acre.....Per lb. 15c

BURR CLOVER. (Medicago Maculata.)

Is used mainly in the southern states and in California. Falls in the season when other forage plants have become dried up by the summer heat. Stock of all kinds feeds upon the burrs, which contains a large portion of nutritious matter. Sow 15 to 20 pounds per acre in August, September or October.....Per lb. 20c

JAPAN CLOVER. (Lespedeza striata.)

Low, perennial, spreading habit. Stands excessive drouth well; flourishes on poorest soil in southern states. Sow 15 pounds per acre. It makes a fair hay, and stock eat it readily when green. It is also valuable for turning under as green manure. Sow in spring broadcast at the rate of 30 pounds per acre.....Per lb. 30c

Clovers and Grasses—Continued.

ESPARSETTE OR GERMAN CLOVER. (*Onobrychis sativa.*)

Perennial, blooms in July. Same family as alfalfa, adapted to light chalky soils, stands gravel and barren regions, deficient in rainfall. Shorter lived plant than alfalfa, but will last from 8 to 10 years, according to soil, by judicious top dressing of manure. It is excellent for cows, increasing flow and quality of milk. Would advise early and heavy seeding. Follow with roller. Sow seed 2 inches deep and from 30 to 40 pounds per acre.Per lb. 20c

MAMMOTH SAPLING OR PEA VINE CLOVER.

Being a rank grower makes it most valuable for fertilizing purposes. Foliage, flower and stem much darker than common Red Clover, ripens later than the latter, about the time Timothy, Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Sow 12 to 15 pounds to the acre.Per lb. 25c

ITALIAN RYE. (*Lolium Italicum.*)

Surpasses the perennial rye grass in earliness and nutrition and rapid growth. Indispensable for alternating. Lasts only two years, and of no use for permanent pasture. Particular as to soil, a moist, tenacious, fertile and of medium consistency being considered the best. On such it is considered one of the best grasses cut green. Sow 30 to 40 pounds to the acre.Per lb. 15c

TALL MEADOW OAT. (*Avena elatior.*)

The roots of this descend deeply into the sub soil enabling it to withstand a protracted drouth, and it is green all seasons of the year. Its early growth in spring makes it equal to rye pasture. It grows quickly after mowing, giving a denser and more succulent aftermath than any of the present popular cultivated grasses. Sow broadcast 25 to 30 pounds of seed to the acre.Per lb. 20c

RED TOP GRASS.

This is especially valuable for sowing on sour or acid soils, swampy or meadow lands liable to overflow, and also on soils that are not rich enough for Timothy and other grasses or Clovers. Mixed with Alsike Clover it makes a fine crop of hay or excellent pasture. Red Top makes a very dense sod that will stand trampling and will continue to grow for a longer time during the year than almost any other grass.

On good soil it will grow two feet high, but it should be fed close, as when it grows up to seed cattle do not like it.

Fourteen pounds of solid seed should be sown per acre and it may be sown either in the spring or in the fall and with or without some small grain as a nurse crop.

To make the best quality of hay it should be cut when in full flower. It is more easily cured than any other grass.Per lb. 30c

PERENNIAL ENGLISH RYE. (*Lolium perenne.*)

While this has long been highly esteemed in Europe and Australia, it has but recently been recognized by our western ranchers. It is worthy of all the praise given. As a pasture grass it grows thick and withstands drouth reasonably well. We have reports of its success as far south as Mexico City and in the far west, also in Old Mexico it is used extensively for lawns. Our new crop is carefully cleaned, and may be depended upon. For pasture sow in spring 25 to 30 pounds to the acre. For lawns 60 to 75 pounds to the acre.Lb. 15c

MEADOW FESCUE OR ENGLISH BLUE GRASS.

(*Festuca pratensis.*)

Especially adapted for permanent pasture. Grows 2 to 3 feet high, but not in tufts like orchard grass. Earliest and most nutritious of grasses. Makes good hay; cattle thrive on it whether in dry or green state. Succeeds even on poor soils, and as the roots penetrate deeply from 12 to 15 inches, it takes extremely dry weather to affect it. Will stand more freezing than any other variety, and yields an abundant crop of seed. Heretofore has been sown to but a limited extent, but the area is rapidly increasing each year. Sow 15 to 20 lbs. per acre. Lb. 15c

BERMUDA GRASS—*Cynodon dactylon.*

This grass has long been naturalized in the southern states. While it will not stand extreme freezing it resists dry, hot weather and consequently is a valuable grass to grow over and bind the most arid and loose soils; and will grow luxuriantly in every kind of soil. It is valuable for lawns, pasture and as a hay crop. Should be sown from April to June. Is used almost exclusively for lawns in the south. Sow 3 to 5 pounds per acre. ¼ lb., 30c; lb., \$1.00.

CREEPING BENT GRASS—*Agrostis stolonifera.*

Especially recommended for lawns in country homes, depending on irrigation. It flourishes where but little moisture is available. Very good for terraces and sloping ground. Lb., 30c.

ORCHARD GRASS. (*Dactylis glomerata.*)

No farmer should be without a small field of Orchard Grass as in many respects it is superior to all other grasses. It stands the drought, grows well in the shade, does well in wet or poor ground and is splendid to prevent worn out fields from washing. This grass furnishes excellent pasture three weeks before any other and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. It is well suited to sow mixed with alfalfa; an average of 12 lbs. Orchard grass 6 to 8 lbs. alfalfa seeds. Sow 20 to 25 lbs. per acre.Lb. 20c

BROMUS INERMIS OR HUNGARIAN BROME GRASS.

A Wonderful Drouth Resister. A Grass for the Stock Raiser. All Cattle Like It.

This pre-eminent drouth-resisting grass stands at the head of all, and is destined to lead as the most satisfactory and valuable forage grass in all localities where arid soils demand a plant with ability to stand the drouth. Stands intense cold equally as well. May be sown in autumn with winter wheat, or early in spring. In southern states sow in February or March, preparing lands as for other grasses. Blooms in north in June, and earlier in southern states.

Its nature is to stool out, and thus does not show its best until the second season. It seldom produces seed the first year. Aside from Alfalfa no grass has fulfilled the promise to the western farmer better than Bromus Inermis. It meets drouth as well as wet and cold, and for Kansas we know of no grass to equal it. Many of our large ranchers are planting it extensively.

For hog pasture a mixture of Bromus Inermis and alfalfa, where the latter succeeds well, is recommended by Prof. Ten Eycke of the Kansas State Agricultural College Experiment station, and he also suggests for large pastures for cattle a mixture of the following per acre: Bromus Inermis, 10 lbs.; Orchard Grass, 8 lbs.; Meadow Fescue, 8 lbs.; Red Clover, 1 or 2 lbs., added to the mixture. For worn out pastures he advises a disc early in the spring, following with a harrow and sow Bromus Inermis on the land, putting most on places where native grasses are most killed out.Lb. 20c

Seeds go at parcel post rates. Allow 5c per lb. for small lots and regular parcel post charges for larger quantities.

FOR PRICES OF FIELD SEEDS SEE OUR PINK LIST. MAILED FREE ANY TIME.

How to Make a Lawn

The ground should be dug deeply and thoroughly, then a good compost of decomposed and finely pulverized manure and rich loam spread over the ground. It would be well also to give a sprinkling of bone dust. Use a slanted tooth harrow and a light or medium roller until the soil is smooth, even and firm. Then sow the seed and harrow again and smooth off with a common garden rake. When the grass has grown 2 or 3 inches in height use a lawn mower set to cut a full inch above the ground; repeat the same as often as it grows to that height. The weeds and foul grass can be kept down and destroyed by the repeated mowing. If this is neglected they will spread and take possession of the soil, but when constantly clipped, the leaves and seed stalks are destroyed and the foul vegetation disappears.

One pound of Fancy Mixed Lawn Grass Seed, or "Columbine Grade" Kentucky Blue Grass is sufficient to thoroughly sow an area 10 by 20 feet, or 200 square feet. It should be borne in mind that in order to produce the best results grass seed for lawns should be sown at least three times as thickly as for hay.

As soon as the grass has become well established a dressing of good lawn Fertilizer is necessary to keep up that beautiful, fresh appearance.

THE "DENVER" FANCY MIXED LAWN GRASS SEED.

We have made the subject of lawns a study for many years and this mixture has been prepared and sold by us in all parts of the country, giving general satisfaction. In making a lawn care should be taken to use only the very best quality of suitable lawn seed, so as to produce a **soft, velvety, evergreen sod.**

Put up in sealed packages: ¼-lb. pkg., 20c; 1-lb. pkg., 30c; 3-lb. pkg., 75c; 5-lb. sack, \$1.20; 10-lb. sack, \$2.20.

Lawn Grass Mixture for shady places. Lb., 30c; 3 lbs., 85c; 5 lbs., \$1.35; 10 lbs., \$2.50; 25-lb. sack, \$5.50.

KENTUCKY BLUE GRASS—*Poa pratensis*.

The Great American Grass. The Standard for Lawns. Our "Columbine" Grade is the purest obtainable. The old standard grass for pasture as well as lawns. Every farmer knows it and its good qualities. Sow about 25 to 30 pounds to the acre for meadows, for lawns 120 to 150 pounds per acre.

Our **Columbine Grade** of Blue Grass is put up in sealed packages. Ask for **Columbine.** 1-lb. pkg., 25c; 3-lb. pkg., 65c; 6-lb. sack, \$1.25; 10-lb. sack, \$2.00.

CANADIAN BLUE GRASS—*Poa compressa*.

Produces a fine foliage of dark green color; and is more hardy than Kentucky Blue Grass. It is especially adapted to light, poor, dry soils and makes very satisfactory lawns. It has somewhat a creeping habit and does not need to be clipped as often as Kentucky Blue Grass. 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$2.00.

TIMOTHY. (*Phleum pratense*.)

As a crop of hay Timothy is probably unsurpassed by any other kind of grass. It is greatly relished by all kinds of stock, especially horses; yields more nutritious matter than any other forage plant or grass. Being an early grass it is well adapted to spring and summer grazing, too. Sow 10 to 12 pounds to the acre....Lb. 10c

JOHNSON GRASS. (*Sorghum Halapense*.)

We find this grass winter kills in the northern states. A perennial, a rapid grower with long cane-like roots; the leaf, stalk and pinnacle of this grass resemble those of sorghums. It is grown on any land where corn will grow. Ten pounds will sow an acre.....Lb. 20c

WILD RICE. (*Zizania Aquatica*.)

An annual which sows itself in the fall about the middle of September, lies dormant in the winter, and in the spring commences to sprout as soon as the water gets warm, reaching the surface about the first of June. It grows very rapidly in 1 to 4 feet of water, reaches a height of 7 to 10 feet and ripens late in August or early in September. It does well along the shores of marshes, and makes good hay. In the south two crops can be cut and all cattle are very fond of it.Lb. 25c; 5 lbs. \$1.00

GIANT SPURRY.

This plant will flourish on sandy wornout soils where no other will grow. It comes next to clover as a fertilizer, and grows very rapidly. It is sown the latter part of March until June at the rate of 10 lbs. per acre. It germinates rapidly and is ready to cut in 7 to 9 weeks. It is readily eaten by cattle and sheep. 1 lb., 15c; 10 lbs., \$1.25.

THOUSAND HEADED KALE.

A tall variety with smooth leaves. Especially used for feeding stock and chickens. Furnishes lots of green feed. Oz., 10c; ¼ lb., 25c; 1 lb., 75c. Ask for price on large quantity.

FORAGE PLANTS.

DWARF ESSEX RAPE.

Main standby of the English farmer in raising choice mutton. Perfectly hardy and of remarkable fattening properties. Easily grown. One acre will pasture 36 head for two months, lambs will make a gain of from 8 to 12 pounds per month. Pigs and cattle are also extremely fond of it. A very rank grower and bears heavy manuring and high cultivation. Sow at intervals of several weeks and secure a supply of good feed. Sow in June. Rape should be fed in August, though if a first crop be cut about four inches from the ground an after growth would be useful later. Does well sown with oats. If soil is clear and clean sow broadcast, otherwise in drills, and cultivate same as corn. Poultrymen will do well to sow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. Broadcasted it takes 8 to 10 pounds to the acre.....Lb. 10c; 10 lbs. 85c; 100 lbs. \$7.50

LUPINS.

When young the plants are good for sheep, yellow Lupins remaining green longer than white. One of the best plants for soiling. May be sown from April until July and succeeds well in the poorest soil.....Lb. 10c

TEOSINTE.

Recommended as the most prolific forage plant yet introduced. The stalks containing much saccharine matter, are very nutritious. It can be cut several times during the season, yielding enormously. One seed will sometimes produce 20 to 60 stalks or shoots, and the warmer the climate the better it yields. Should not be planted until the soil is perfectly warm in the spring. Requires about 4 pounds of seed to the acre. Plant in drills three feet apart and two or three seeds every 12 inches in drill..Lb. \$1.00

Lentils

A leguminous annual that flourishes in dry, sandy soil. Easily grown in Colorado. The dry seed is extensively used for soups and forms an important import article that can be produced in this country to a profit. Lb., 15c; 5 lbs., 60c.

AUSTRALIAN SALT BUSH. (Atriplex semibaccata.)

The department of agriculture of California recommends this very highly for planting on alkali soils. They claim thousands of acres of arid and alkali land have been reclaimed by the use of this plant. The plant is of spreading habit, branching freely and making a thick mat of stems and foliage. The plant needs some moisture to start a growth but when once started it can stand the hottest and driest weather. Should be cut and cured same as clover.

Pkt. 5c; oz. 10c; ¼ lb. 30c; 1b. \$1.00.

Saccharine Sorghums.

Cane or Sorghum is planted very extensively both for syrup and for fodder. It makes an immense amount of the finest kind of fodder which is relished by all kinds of stock. The Texas Seeded Ribbon and the Orange varieties are commonly used for making syrup, and the Amber and Red Top varieties for fodder.

Cane makes excellent pasture and when grazed down will spring up quickly again. It should be sown in the spring and will do well on thin land. Sown broadcast it requires from 1 to 1½ bushels per acre, and if in rows from 6 to 10 lbs. per acre.

Cane will make a good crop of fodder if sown as late as the middle or even the latter part of July.

Texas Seeded Ribbon Cane or Gooseneck Sorghum.

This variety makes the most and the best quality of syrup. Growers who have used it for that purpose are enthusiastic about it. The stock is not entirely pure and both Goosenecked and straightnecked plants appear in the same fields.....Lb. 10c

EARLY AMBER CANE. This popular and well known variety is the earliest and makes the finest quality of amber syrup and sugar. Succeeds well from Texas to Minnesota.....Lb. 10c

ORANGE CANE. A well known variety adapted to the southwest. It is from 8 to 10 days later than the Early Amber.....Lb. 10c

RED TOP CANE. Planted very extensively in the southwest. Smaller than the other varieties, but makes a large amount of fodder.....Lb. 10c

FORAGE OR FODDER CANE. Cane seed is now grown to a considerable extent for stock feeding. It yields heavily. It can be raised anywhere, and is sown extensively in dry regions where grasses do not do well. Because of its sweetness it is greatly relished by cattle and horses and sheep. For forage sow 50 lbs. to the acre. Ask for Market prices.

Broom Corn.

There are many farmers who make this a most profitable crop. One acre will produce 500 cwt. of brush and nearly 40 bushels of seed, which is almost equal in value to oats for feed. Requires soil similar to corn, same cultivation, but should be planted some later in the season. Put in ground in prime condition. We think that more of our western farmers should grow Broom Corn for market. It is profitable. Frequently planted in drills 3½ feet apart, leaving 6 inches apart; 5 to 10 pounds to an acre.

IMPROVED EVERGREEN. This Broom Corn grows about 8 to 10 feet high, stands up well, and is entirely free from crooked brush. The fiber is long and fine. Its great value is that it will not get red in the field before it is cut, but is strictly a green variety of brush commanding high price.....Lb. 10c

THE OKLAHOMA DWARF BROOM CORN. Originated in Oklahoma. Most valuable strain grows here and in the Southwest. Quite distinct from all others in earliness. Of robust habit and extreme productiveness; brush long and well fibered, and is a drouth resister. On new breaking it does splendidly, leaving the ground in prime order for fall wheat crop, only slight discing needed to prepare for seeding. Averages five feet in height, making it convenient for pulling brush. It is a great yielder; one of our Oklahoma growers reports several fields yielding 1 to 3 tons fine long brush; seeds may be left to ripen on brush without injury to latter, removing danger of heating from immature seed bins. Stalks make excellent fodder if cut at once after brush is pulled.....Lb. 10c

Forage Plants—Continued. Non-Saccharine Sorghums.

THEY STAND DRY WEATHER.

These varieties are especially valuable for their ability to withstand dry weather. Many farmers are trying, year after year, to raise corn when they would do much better by raising such crops as Kaffir, Milo, Feterita, etc. These varieties will all yield as much grain as corn, will make excellent fodder; but the best point is that they will make a good yield under conditions under which corn would burn up entirely.

It is a well known fact that when these grains are struck by dry weather they simply stop growing for the time being, and when they get more rain they go ahead and make their normal growth.

They make good material for filling silos and should be planted much more extensively, especially in the regions of deficient rainfall.

They should be planted in rows like corn, planting about five pounds per acre, and cultivating like corn. They will grow on any corn land and also on land too poor for corn. The crop should be cut and shocked when the seed begins to glaze.

Feterita, Inside Back Cover.

Dwarf Black Hull White Kaffir, Page 4.

WHITE KAFFIR CORN.

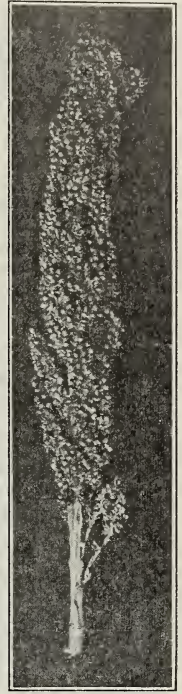
It makes a straight upright growth and has a strong stem with enormous wide leaves. The stalks keep green and are brittle, making excellent fodder, either green or dried, which is highly relished by cattle and horses. The heads form at the top of each stalk. For the grain sow in rows 3 feet apart, 3 to 5 pounds of seed to the acre. For fodder sow one-half to one bushel, either broadcast or in drills. Lb. 10c

RED KAFFIR CORN.

This grows taller than the white; the stalks are more slender, but more juicy and very leafy. The heads are long, slender, compact, and grow very erect; they measure from 8 to 15 inches. The seed is red, smaller than that of the white, and rather hard and brittle. It does well on poor land and yields well. It ripens a little earlier than the white variety. It is highly recommended by the Kansas Agricultural College at Manhattan. Lb. 10c



WHITE KAFFIR



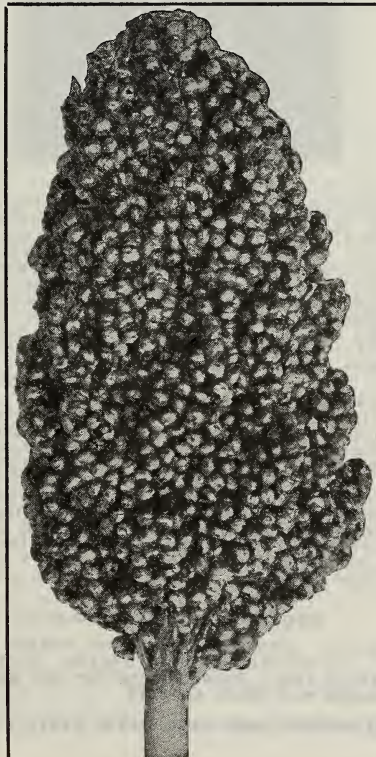
RED KAFFIR

Dwarf Straight-Neck Milo.

Dwarf Milo was thoroughly tested by the drought of 1913 and it stood the test. What would you have given last fall for a field of Dwarf Milo yielding about 50 bushels per acre?

The Original Stock Seed was obtained from the U. S. Department of Agriculture and has been carefully selected and acclimated. It differs from the Standard Milo Maize in being dwarfed, growing from 3 to 5 feet high according to the amount of rainfall, and it is straight necked. The advantage of this straight-necked feature is apparent in gathering, feeding and cutting the heads.

This strain is earlier than Kaffir Corn and Standard Milo Maize. The yield is from 60 to 100 bushels per acre. This will stand great drought and for this reason is admirably adapted to dry land farming.



The Dwarf Milo Maize should be planted the same as Kaffir or Milo and cultivated the same as Indian corn. It can be fed in bundles or in head to work horses, cattle and hogs. Stock seem to prefer it to corn, and it has a laxative effect on them, keeping them in good condition.

While our stock is especially selected for straight necks, owing to the constant tendency to revert to the crook necked type, there will be a few crook necked in the field.

Lb. 10c

White Milo.

Is practically the same as the Dwarf Straight-Neck Yellow, except in the color of the seed, which is white. A very heavy yielder. Lb. 10c

Forage Plants—Continued.

Large White African Kaffir.

This is a wonderful drought resister. It originated in Africa and is grown from seed imported from Africa. Has a growing habit similar to White Milo Maize. Produces stalks 8 to 10 feet tall yielding heads from 12 to 14 inches long. Will produce more forage than Kaffir or Maize. It requires about 4 pounds of seed per acre and seed should be planted in rows about three feet apart in April or May.

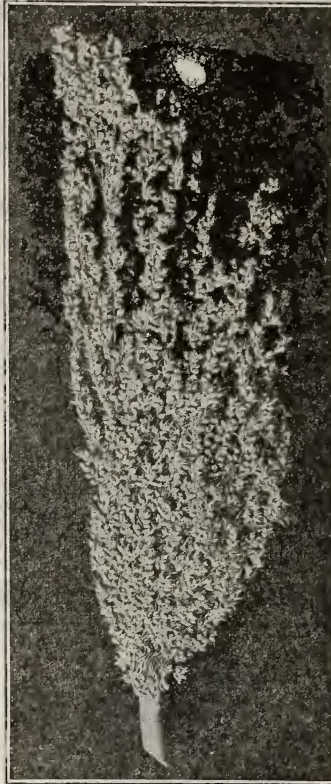
Lb. 10

Shallu.

This non-saccharine sorghum came originally from India, where it is extensively cultivated under the name of Shallu. It is frequently called California Rice Corn, California Wheat and Egyptian Wheat.

It came to us from California some five or six years ago. It is an excellent variety, but is not well known.

It grows quite tall and stools out from the root, a single grain producing from three to six stalks. The heads, as you will note from the photo, are quite large and have a lot of grain. The heads are similar to broom corn heads and are well filled with large, plump, round white seeds. It makes a lot of fodder and is quite drought resistant.



SHALLU

JERUSALEM CORN. (White Durra.)

It is pronounced the best and surest grain crop for dry countries and seasons, even better than Kaffir Corn, Dourra and Milo Maize. It grows about five feet high, makes one large head on main stalk and several smaller heads on side shoots. Have seen as high as eight heads on one plant. The grains are pure white, and nearly flat. Three pounds will plant one acre.

Lb. 10c

YELLOW MILO MAIZE. (Milo.)

Growth is tall, 9 to 12 feet, stooling from the ground, like White Milo Maize, but not so much. It sends shoots also from the joints. Seed heads grow to great size, often weighing 3/4 of a pound, sometimes a full pound, after ripening. On account of its branching habits this grain should be planted in rows 4 to 5 feet apart, and 2 to 3 feet in the drill, or 2 plants in a hill, 3 to 5 feet apart.

Lb. 10c



MILO



JERUSALEM CORN

BROWN DOURRA. (Durra.)

Similar to the Jerusalem Corn. Grain same size and shape, but of brown color instead of white, as the Jerusalem Corn. It withstands dry weather better than Kaffir Corn and Milo Maize, and is a sure cropper every year. Raised more for the grain than for the fodder. Yield immensely. Three or four pounds will plant an acre.

Lb. 10

It makes excellent feed for horses and cattle, and for chicken feed there is nothing better. It can be popped like Popcorn and pops out to a nice crisp kernel. When ground it makes excellent flour for pancakes.

It makes good fodder but is more of a grain than a forage crop. It will form more seed than any other variety of the sorghum family.

It should be sown in rows three feet apart, sowing 2 to 5 pounds per acre.

If sown for fodder only it can be sown broadcast at the rate of about 30 to 50 lbs. per acre. Every farmer should try some Shallu and especially if he raises chickens.

Pkt., 5c; lb. 10c; 10 lbs. 60c Postage 5c per pound extra

MILLETS.

COMMON MILLET.

It is an annual grass with juicy, tender and luxuriant leaves, much relished by all kinds of stock; makes good hay. Sow 25 to 40 pounds to the acre.Lb. 10c

GERMAN MILLET.

An enormous yielder. It has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. It is sown in the spring on newly broken prairie, and after harvesting it leaves the ground in the finest condition for wheat. Sow 25 to 40 pounds to the acre.Lb. 10c

HUNGARIAN MILLET.

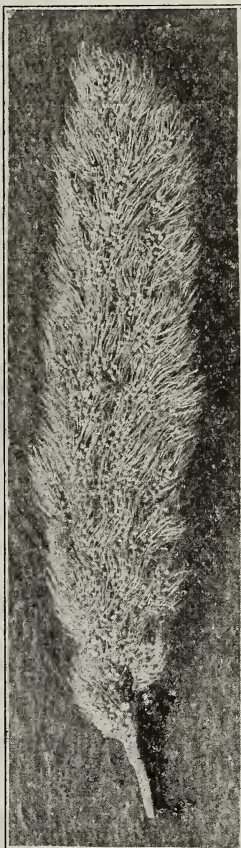
It is of fine growth and makes excellent hay. It has numerous succulent leaves, which furnishes abundance of green fodder, taken by all kinds of stock. Sow 25 to 30 pounds to the acre.Lb. 10c

MANITOBA OR HOG MILLET.

The seed is very rich and thus especially valuable as a hog food. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green, thus if cut promptly can be threshed for the seed, while the hay, after being threshed, will make excellent fodder. Sow same as other millet. .Lb. 10c

JAPANESE MILLET.

Or "Billion Dollar Grass," as it is sometimes called, is of recent introduction, and great claims are made for it as to productiveness and value as a forage plant. Prof. Brooks, of the Massachusetts Experiment station is quoted as saying: "At our station it produces 60 bushel of seed, 11,237 pounds of straw, 36,000 pounds of green fodder, 12,000 pounds of hay per acre, being superior to good corn fodder in feeding for milk, and in combination with the soja bean makes a very superior ensilage. Recommended highly for feeding dairy cattle, young stock and sheep, being very rich in nutritious elements.



If sown in the latter part of April will be ready to cut for hay by the middle of July. Attains a height from 5 to 7½ feet, according to season.

In drills plant 10 to 12 pounds per acre broadcast, 15 pounds per acre. Lb. 10c

PEARL MILLET OR PENCILLARIA.

Immensely productive. 25 tons per acre.

A native of Central America. It is an annual plant having long, broad foliage, and if allowed to develop fully will attain a height of from 10 to 12 feet, and bear numerous heads from 19 to 20 inches in length and 1 inch in diameter, completely covered with thousands of seeds, much relished by poultry. It is of rapid growth, throwing out from one plant numerous suckers, and if cut as soon as it reaches the height of 2 to 3 feet, it can be mowed from 4 to 6 times, according to the latitude, and yields several tons of hay to the acre. If allowed to grow 6 or 7 feet high, and cut when the flower heads begin to develop, it will yield the heaviest fodder crop per acre of any plant now in civilization. For feeding it is equal to any fodder, and is relished either green or dry, by all kinds of stock.Lb. 15c

SIBERIAN OR RUSSIAN MILLET.

It is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all of the essential merits of any of the older sorts—exceeding them by far—besides many other points of excellence that distinguishes it and render it a most valuable addition to the list of forages. If the claims are well founded it is destined to take front rank, if not to lead all the rest. . . .Lb. 5c
Postage on all Field Seeds is 8 cents per lb.

Put a top dressing of our bone meal on your pasture. The result will surprise you.

COLORADO GOLDEN MILLET.

This is a cross between German and Common Millet with all the good qualities of both parents. It yields a great amount of seed and the hay is fine, juicy, with luxuriant leaves. It is harder than other millets, being perfectly acclimated to our Western country. Lb., 10c; 10 lbs., 50c.

SILVER HULLED BUCKWHEAT.

An improved sort, much excelling the old common variety, which it has about superseded with us. It blooms longer, matures sooner and yields double the amount per acre. Husk thinner, corners less prominent, and seeds of a beautiful light gray color. Flour made from this variety is pronounced better and more nutritious than others. Thirty to fifty pounds to an acre. Lb., 10c; 10 lbs., 60c.

JAPANESE BUCKWHEAT.

A new variety that has been raised here with good results. Early and very productive, with kernels twice the size of any other buckwheat, of a rich, dark brown color and makes a superior flour. As it possesses a branching habit only half as much seed is required to plant an acre. Straw is very stiff and stands up well. Lb., 10c; 10 lbs., 60c.

FLAX SEED.

Farmers should not lose sight of the fact that flax can be raised where wheat is raised and where tried has brought better results for amount of labor invested than wheat. Twenty to forty pounds will sow an acre. Lb., 10c; 3 lbs., 25c.

FOR PRICES OF FIELD SEEDS SEE OUR PINK LIST. MAILED FREE ANY TIME.

PEANUTS.



TENNESSEE RED

WHITE JUMBO.

This is the standard variety for roasting. The peanuts are three times as large as those of the ordinary Spanish peanut. The nuts proper grow in fine double jointed hulls of beautiful white appearance, are from $\frac{1}{2}$ to one inch in length, and of fine flavor. An excellent variety worthy of the highest recommendation. Lb. 20c

Sand Vetch. (*Vicia Villosa*.)

Some times called Hairy Vetch or Winter Vetch. This is one of the most valuable plants for forage and fertilizing purposes. It will succeed and make a good crop on poor, sandy soils and also a better crop on good land. It is perfectly hardy throughout the United States and remains green all winter. Vetch belongs to the same family as Alfalfa and Sweet Clover, and has the same ability to gather nitrogen from the air and store it in the root system. The roots are very extensive and add a good deal of valuable material to the soil. It thus improves the conditions and the productiveness of the land for the crops to follow.

It is an excellent catch crop, makes good hay, silage, and pasture. Vetch can be sown from July until November, and should be sown broadcast at the rate of about 30 lbs. per acre together with one bushel of either oats or rye. Vetch grows quite tall and needs the oats or rye for support. They then make a better growth, and are more easily harvested and cured. For a hay crop the Vetch should be cut just after the Oats or Rye has headed out. The yield of green fodder is immense. Per lb. 20c

SPRING VETCHES OR TARES.

Similar in growth to Sand Vetch but for spring planting only. Per lb. 10c

SUNFLOWER, MAMMOTH RUSSIAN.

Single heads measure 15 to 20 inches in diameter, and contain an immense amount of seed, which is highly valued by all farmers and poultry breeders who have tried it as an excellent and cheap food for fowls. For poultry it is the best egg producing fruit known. It can be raised cheaper than corn, and is destined to be an article of great value. Every farmer should plant some of the seed in any waste piece of ground any time from early spring to the middle of July. Three pounds of seed will plant one acre. Lb. 15c

SUNFLOWER SEEDS FOR FEEDING BIRDS.

We have suitable stock for feeding that we sell at reduced prices.

Seeds go at parcel post rates. Allow 5c per lb. for small lots and regular parcel post charges for larger quantities.

FOR PRICES OF FIELD SEEDS SEE OUR PINK LIST. MAILED FREE ANY TIME.

Until recently it was thought that Peanuts could be raised only in the South, but they are now raised as far north as Iowa. In the last few years Peanuts have become very popular for dry land farming. They are classed with Dwarf Milo and Feterita in their ability to withstand dry weather, and made good returns in the dry summer of 1913.

The tops of the plants make good hay, and in the southern states it brings a very good price. The yield, even in dry seasons, is from one-half to three-quarters of a ton of hay and from fifteen to sixty bushels of nuts per acre. The whole peanut plant makes nice feed for forcing cows to a high yield of milk and for rapidly fattening cattle and hogs, especially when combined with grain of Milo. A common method of harvesting is to let the hogs gather the nuts.

The Spanish Peanuts are generally planted when wanted for farm use. The nuts are small but they stand dry weather better.

Peanuts do best in light sandy loam. They should be planted in rows from 28 to 36 inches apart and from 9 to 16 inches apart in the row. They need not be shelled but should be soaked in warm water for a day or so and then planted at once in warm soil. Planting should not be done until weather is good and warm. They should be cultivated and kept clean until they begin to peg or form pods. After that they should be left alone.

It takes from one peck to a peck and a half of shelled nuts and from a bushel to a bushel and a half in the shell to plant an acre.

SPANISH.

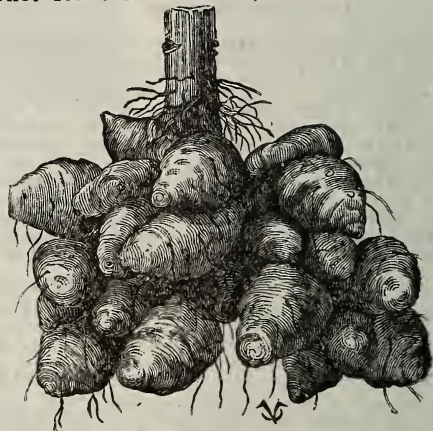
The earliest variety grown, pods are small, but remarkably well filled and solid, and the yield per acre is very large. Can be cultivated with the plow. Because of its early habit and easy cultivation it is the best variety to grow for fattening hogs. Lb. 20c

HEMP SEED.

This is a crop that deserves more attention. The seed can be marketed with us. The fiber is in demand in the eastern markets. Lb. 20c

CANARY SEED.

As easily grown as wheat. Requires similar culture; 20 to 30 lbs. to an acre. We are in the market for the seed. Lb., 15c.



JERUSALEM ARTICHOKE.

A well known vegetable produced from tubers like potatoes, which they resemble somewhat. Excellent food for stock. Do best in light rich soil, when an open exposure, but will resist any degree of cold incident to the United States. Planted like potatoes and as early as the ground will permit in May. Can remain in ground all winter as freezing does not hurt them. Yield from 500 to 1,000 bushels per acre.

Lb. 10c; 3 lbs. 25c; 25 lbs. 75c; 100 lbs. \$2.50

FIELD PEAS

San Luis Valley is now feeding, wintering and fattening sheep and stock in greater number and at less cost than anywhere in the entire United States, simply with FIELD PEAS. San Luis Valley Peas have developed a wonderful and great industry.

SAN LUIS VALLEY STOCK PEAS.

They can be grown and do well at an altitude of 9,000 feet.

San Luis Valley or Colorado Stock Pea is a hybrid, evidently the Golden Vine intermingled with the Native or Mexican Peas until now the seed has the appearance of a mixed sort, and is well acclimated to our climate, being very hardy, withstanding early frosts and growing until late fall, reaching a length of 4 to 6 feet. The vine continues to blossom as it grows, ripening peas on the lower branches and setting more pods above. The seed averages smaller than garden peas.

Time of Sowing. Being very hardy, the fear of rotting in the ground is not considered. The majority sow in April, although a pea-hay crop can be obtained if sown as late as July. Early sowing is best, giving full season for matured crop.

Quantity to Sow. When early sowing is made, 40 to 50 lbs. of seed per acre makes a crop that covers the ground and produces good tonnage. If late sowing is made, 60 to 80 pounds per acre is advisable, as the crop does not get to matured growth. Thick sowing will aid in hoking out weeds.

Harvesting. If wanted as pea-hay the growth should be at the period when the supply of nutriment in milk is in the vine just forming the pod, cut and cured like ordinary hay. This makes finest feed for dairy cattle; in fact, lambs, sheep, hogs and cattle relish this hay. If the peas are desired as dry grain allow crop to mature and handle in shocks, threshing by machine after thoroughly dry. The dry seed can be ground into a meal or fed whole. They mature in from 70 to 90 days.

The Colorado Stock Pea does not exhaust the soil rapidly like some crops; quite the opposite, the nitrogen taken from the air is stored in the ground through the roots. The growing crop can be plowed under when but partly matured—just in the milk—and makes an excellent fertilizer. Orchardists are learning this and consider the crop valuable for this purpose alone.

We advise all stock growers to plant liberally of Field Peas. We have supplied ourselves with seed of the San Luis Valley, reclaimed stock, the Wisconsin grown Green Canada Peas, and the northern grown Golden Vine.

Prices for each above fluctuate. Lb., 10c; 3 lbs. for 25c; 10 lbs., 60c. Write us when you are ready to buy in large quantity.

Whip-Poor-Will Cow Peas

This is not exactly a pea, but more properly belongs to the bean family. It is becoming known in the North, also, as a highly valuable fodder and fertilizing crop. It requires a full season to mature. If desired the pods may be harvested for the grain and the plants plowed under to fertilize the soil. The seed or grain is ground and used for cattle feed; the stalk and leaves also make excellent fodder, fed green. Poor, sandy soil may be greatly improved by plowing under a crop of Cow Peas, and thus made into a fertile loam. Plant in a thoroughly pulverized soil. If wanted to plow under the manure, sow with a grain drill in drills a foot apart. If grown for fodder or the seed, plant 3½ feet apart and cultivate thoroughly. The seed must not be sown until the soil has become thoroughly warm. Sow from 60 to 90 lbs. per acre. Lb., 10c; 10 lbs., 80c.

FIELD BEANS

WHITE NAVY. The standard white bean, of medium size. Plant in drills, so as to cultivate with a horse; 25 to 30 lbs. per acre. Lb., 10c. See market price list for quantity.

MEXICAN BEANS. This is the popular bean with the Mexicans and now is grown extensively throughout Colorado, New Mexico and Arizona. The yield is tremendous. Lb., 10c. See market price list for quantity.

EARLY SOJA BEANS—Coffee Berry, also called Soy Beans. Soja Beans are drought resistant, much more so than cow peas, but will not do as well as them on poor ground. The berries ripen in about 3 or 4 months from the time of planting and produce a crop of 20 to 40 bushels to the acre, and are as easily grown as other beans. One bushel of Soja Beans is at least twice as valuable as corn for feeding

purposes. When roasted and ground it closely resembles coffee and tastes quite similar.

Its great value to the farmer lies in the fact that when ground it makes one of the most valuable crops for feeding stock and adds greatly to the milk production. Being a rich, nitrogenous feed, it is unsurpassed as a flesh former, and like the clovers, is a soil improver, deriving its nitrogen from the air. Sow in drills 2 or 3 feet apart and 1 foot between plants. 30 to 40 lbs. will sow one acre. Do not cover more than 1 to 1½ inches deep. ½ lb., 10c; lb., 15c; 2 lbs., 25c; 10 lbs., 75c. See market price list for quantity.

CASTOR OIL BEANS. Common Ricinus are easily grown in the lower altitudes and southern part of New Mexico and Arizona. Lb., 15c.

FARMOGERM

High-Bred Nitrogen-Gathering Bacteria. Makes Poor Soil Good Soil.

It is now generally understood that the quickest, most economical and most permanent method of adding nitrogen to soil is to plant a leguminous crop of some kind after inoculating the seed with nitrogen-gathering bacteria.

FARMOGERM is offered for this purpose. It is a pure culture of a High Bred Nitrogen-gathering bacteria. It comes in sealed bottles, and unlike any other preparation of this kind ever offered before, it is all ready for use. Just dilute with water according to directions. The carefully selected, active bacteria in Farmogerm insure quicker and larger growth of the crop inoculated, and permanently enrich the soil for future crops. The theory of inoculation is recognized by authorities as the right solution of the nitrogen fertilizing problem. The problem has been to get the right culture. Farmogerm is the right culture. 1 acre, \$2.00; 5 acres, \$6.00; 50 acres, \$55.00.

We have a pamphlet which deals with the subject intelligently and at some length. Let us mail you a copy free.

FARMOGERM is prepared for the following legumes:

Alfalfa, Clover, Field Peas, Cow Peas, Soy Beans, Vetch, Peanuts, Garden Beans, Garden Peas and Sweet Peas.

When ordering be sure and state for what crop Farmogerm is wanted.

We can supply in GARDEN SIZE a mixed culture for Peas, Beans and Sweet Peas, also White Clover for lawn, at 50c a bottle.

The U. S. Department of Agriculture says: "In new regions, where Alfalfa, Clover and other leguminous plants have not been cultivated, very few soils have enough of these bacteria in them to be of any practical value, and inoculation is essential."

Humogerm

This is a dry and granulated preparation which can be mixed with seeds before planting. Will keep good for more than one year. 1-acre size, \$1.00; 5-acre, \$4.00.

HIGH-GRADE FERTILIZERS

Uses of the Different Ingredients

NITROGEN produces the green, rank growth of the plant; it makes more succulent and nourishing food; also forms the seed without which fruits could not develop. When properly supplied with the necessary Phosphoric Acid and Potash about 75 per cent of the Nitrogen goes into the grain and seed.

PHOSPHORIC ACID gives strength to the young plant in helping to expand its root growth and absorb the other necessary elements of plant food. It hastens and increases flowering and forces early maturity.

POTASH forms the cellular fibres, straw and woody growth of plants. It aids in producing sap, starch formation of grains, juiciness and sweetness of fruits.

OUR BRAND OF MIXED FERTILIZERS.

Prices subject to market changes. If wanted by mail add postage.

These fertilizers contain in a concentrated form food necessary to grow nutritious farm products in large quantity per acre at lowest possible cost in time, labor and money. They are quick in action. Do not contain weed seeds and are easily applied. We have now put up for us special brands. If you order by these names you will make no mistake. You will be wise in ordering liberally.

THE "DENVER" LAWN FERTILIZER.

This is a good article for the price, being made expressly for our trade. (Other makes called "Denver" are not our formula.) It contains 3 to 3½ per cent ammonia, 8 per cent available phosphoric acid, and some other rich plant foods, just the materials required to build up strong, vigorous grass shoots and make a luxuriant carpet grass. To get a good lawn begin early in the spring, rake over bare places and sow good seed, then apply the fertilizer by throwing it broadcast evenly, after which soak with water. It is a Lawn Fertilizer of exceptionally high merits. 10 lb. pail, 40c; 25 lb. sack, 75c; 50 lb. sack, \$1.40; 100 lb. sack, \$2.50.

ROSE GROWER. Made especially for roses and sweet peas, and without doubt the best fertilizer to use in a flower garden. For house plants use 1 teaspoonful to 1 quart of water; for outside use 1 teaspoonful for each plant twice during growing season. Always water plants thoroughly after putting on fertilizers. 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.40; 100 lbs., \$2.50.

OUR "DENVER" VEGETABLE GROWER.

After several seasons of experimenting with products from several leading fertilizer manufacturers, we have settled on this as our ideal fertilizer, for the grower of vegetables, also strawberries and other small fruits. It cannot be better for the price. Contains 3½ to 4 per cent ammonia, 8 to 10 per cent available phosphoric acid. Price, 100 lb. sack, \$2.00.

FRUIT AND ROOT CROP SPECIAL. While this contains about the same per cent of ammonia as the Vegetable Grower, it has a greater per cent of available phosphoric acid, and likewise a greater per cent of Potash, making it quick acting, yet more lasting and especially suitable for strawberries and all small fruits. It is good for garden crops which require a full season, such as beets, carrots, onions, melons, etc.; also potatoes. Price, 100 lb. sack, \$2.00.

SUGAR BEET SPECIAL. This is the fertilizer that brings the greatest returns of any. The analysis indicates its quality. Having 3 per cent available phosphoric acid and 6 per cent sulphate of potash, it imparts to the sugar beet the very elements needed for the best results. It is likewise most excellent for fruit orchards. For increasing the yield of potatoes it has no equal. Price, 100 lb. sack, \$2.25.

NITRATE OF SODA.

A fertilizer very quick in action and used for the nitrogen it contains. It creates rapid growth, is odorless, very quickly and entirely soluble. It is best applied when the plants are above the ground, usually in combination with other chemical fertilizers. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$5.50.

SULPHATE OF POTASH.

This fertilizer can be used for all crops; but especially for white potatoes, sugar beets, cabbages, celery and cauliflowers. It is the best form of potash to use in greenhouses; as it is powdered it dissolves quickly. Can be used dry or in solution 1 tablespoonful to 3 gallons of water. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.80; 100 lbs., \$6.25.

MURIATE OF POTASH.

A form of potash salts used to make commercial fertilizers for grain, grass, fruits and vegetables. Containing about 50 per cent of potash. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.00.

ACID PHOSPHATE.

It is formed by treating some form of insoluble phosphate of lime, bones, etc., with sulphuric acid, and contains from 14 to 18 per cent of available phosphoric acid. 1 lb., 10c; 4 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

SHEEP MANURE PULVERIZED.

This is the strongest animal fertilizer as it contains ammonia, phosphoric acid and potash in liberal proportions. It produces immediate and lasting effect. It is convenient to handle and easy to apply. It is dried, pulverized and screened. It is one of the very best for lawns as the color is not conspicuous and there is no bad odor. 25 lbs., 40c; 100 lbs., \$1.00.

FINE BONE MEAL. Decomposes rapidly and yet is available as a good fertilizer through second season after using. For use in greenhouses, also for growing plants, roses, etc., likewise lawns. Price, 50 lb. sack, \$1.40; 100 lb. sack, \$2.50.

LAND PLASTER. An old established fertilizer for grass and grain crops. Price, 100 lb. sack, \$1.00.

LAWN SILICATE—Powder.

It kills weeds in lawns in 24 hours. Economical, easily applied and destroys weeds such as Dandelions, Plantain, Buckhorn, Povertyweed, Chickweed, Burdock, Thistle, etc., etc. It will not harm the grass to any extent though, if dusted too thick, the grass may turn a little brown for a short time after Lawn Silicate has been used; but soon will become greener and more vigorous than before. 5 lb. package, 30c.

Special prices will be given for any above fertilizers in 5 sack lots or more.

Walker's Excelsior Plant Food



Just what your house plants need. It is odorless and it is safe to use. Dissolves readily in water, and takes the place of liquid manure. Each package contains full directions. A valuable booklet, "The Window Garden," free with purchases if asked for. Price, 5-oz. pkg., enough for 20 plants three months, 20c; 12-oz. pkg., 35c.

"Sterlingworth" Plant Food Tablets



A new, scientific, odorless fertilizer for house plants and vegetables. Contains nitrogen, ammonia, phosphoric acid and potash. Put up in two sized packages, suitable for mailing. The large size contains tablets (sufficient for 35 plants three months.) Price 25c, postpaid. Small or trial size contains 30 tablets (sufficient for 10 plants three months.) Price, 10c, postpaid.

JAPANESE PALM FOOD. Produces a luxuriant foliage of rich texture on ferns, palms, rubber plants, etc. Price, 20c.

Bonora

The recognized fertilizer of modern times. Used with eminent success by the prominent growers of the country. The actual results from the use of "Bonora" have been demonstrated fully, and are really beyond the expectations of those who have used it. There are many so-called fertilizers on the market, but "Bonora" takes the lead and stands alone in the fertilizer world. Is establishing a reputation for itself second to none, as it never fails to give entire satisfaction. For plant life of every variety it is invaluable, and the use of "Bonora" is a luxury to the early vegetable

raiser, as it matures a crop 2 to 3 weeks earlier, greatly improving it in every detail—a thorough test will convince the most skeptical, when instructions are carefully followed, and those are so simple that the most inexperienced grower can carry them out.

Has been used on the Capitol Grounds of Washington, D. C., with great success.

Dry Powder, which dissolves readily. Trial size, ¼ lb. pkg., making 56 pints solution, 25c. One lb. size pkg., making 28 gallons solution, 50c.

PEST EXTERMINATORS

BARTELDES' GOPHER KILLER—Liquid.

It is a quick and positive exterminator for gophers, ground squirrels or prairie dogs that burrow deeply in the ground. It is not as effective for moles or other burrowing animals that follow along close to the surface of the ground, for the reason that the gas escapes through the thin layer of surrounding earth. Price, 1 qt. can, 75c.

POISONED WHEAT.

For exterminating prairie dogs, gophers, etc. 1 lb. carton, 20c; 5 to 10 lbs. at 17c lb.; 15 to 25 lbs. at 15c lb.; 50 to 100 lbs. at 14c lb.

GOPHERGO

(Machine Poisoned Raisins)



A sure death to gophers, squirrels, prairie dogs, rabbits, rats, mice and all other rodents. It is an attractive bait, thoroughly poisoned and guaranteed to do the work. Put up in 25c, 50c and \$1.00 cans. Directions on each can.

ANT EXTERMINATOR.

A non-poisonous powder which will kill or drive away ants from lawns. Box, 25c.

SULPHATE OF IRON—Powder.

Will kill dandelions and all weeds having

broad and hairy leaves without injury to grass. 4 lbs., 25c; 25 lbs., 90c; 50 lbs., \$1.50; 100 lbs., \$2.75.

STERLINGWORTH LAWN COMPOUND—Powder.

Kills all the weeds having broad or hairy leaves but not the grass and makes the lawn green and velvety. One pound will dress 100 to 200 square feet. Price, 5 lb. can, 60c; 10 lb. can, \$1.00.

STERLINGWORTH WEED KILLER—Powder.

It is a powerful and effective compound. One application will destroy in 12 to 72 hours weeds, grass (including Milk Weed and Witch Grass), Briars, Dandelions, Daisies and all vegetation with which it comes in contact. One pound will make 15 gallons of solution. Price, one pound package, 50c.

CUT WORM KILLER—Powder.

This preparation is quick and sure in effect and non-poisonous to domestic animals. It is so alluring to Cut Worms that they are irresistibly attracted to it and eat it in preference to any vegetation. Dead Cut-Worms will be seen wherever there are Cut-Worms and Cut-Worm Killer has been used. One pound is sufficient for 175 plants, when in hills, and 150 lineal feet of plants when in rows. Price, 1 lb., Sprinkler Top Box, 25c; 5 lb. Tin Can containing Sprinkler Top Box, \$1.10.

BUG DEATH—Powder.

It will kill any bug or worm that attacks or eats the stalk, leaf, vine or blossom of any tree, plant, or vegetable that grows. It is so very fine powdered that it does not wash off except in some such extraordinary case as a cloudburst. It is not injurious to bird or animal life outside of bugs and worms. It kills or drives away ants without injury to the grass. Also it is very effective to prevent blight on potatoes, cucumbers, melons, tomatoes and other crops. A part of Bug Death mixed with 2 parts of bran and 1 part molasses spread around plants will attract Cut-Worms, which eat the mixture and die. 1 lb., 15c; 3 lbs., 40c; 5 lbs., 50c; 12½ lbs., \$1.00.

INSECTICIDES

Prices subject to Market changes.
Poisons cannot be sent by mail.

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop of fruit. The largest and most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in a spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. Will furnish table giving formula for making mixtures and directions for application of same on request.

ARSENATE OF LEAD.



An effective insecticide for leaf-eating insects and particularly suitable for very tender foliage, being perfectly safe to apply in any strength without danger of scorching. Will not wash off by ordinary rains. It is now the most popular and successful insecticide used in the popular fruit districts of Colorado. Use 6 lbs. to 100 gallons of water. Any of our spray pumps with fine nozzles will apply it. 1 lb. jar, 25c; 5 lb. pail, \$1.00; 10 lb. pail, \$2.00; 25 lb. pail, \$4.00; 50 lb. pail, \$7.50; 100 lb. keg, \$14.00.

Powdered Arsenate of Lead. 5 lb. can, \$1.50; 10 lb. pail, \$3.00; 25 lb. pail, \$6.75.

APHINE—Liquid.

A powerful insecticide which does not affect the most tender plants. Qt. can, \$1.00; 1 gal. can, \$2.50.

BARTELDES' SMUT COMPOUND—Liquid.

It is put up especially for us after our own formula and is very simple to use. One bottle is sufficient for one ton of grain. Directions on each bottle. Price, 50c.

BORDEAUX MIXTURE—Liquid.

Concentrated liquid to be diluted before using. Prevents black rot, mildew and rust. Qt. can size, 50c; gal. can, \$1.25; 5 gal. can, \$5.00.

BLUE VITRIOL—Sulphate Copper.

In crystals ready to dissolve. 1 lb., 15c; 4 lbs. for 50c; 9 lbs. for \$1.00. When wanting large quantity ask for prices.

Copper Sulphate Solution is made by dissolving 1 lb. of Copper Sulphate in 20 gallons of water.

CHLOROLEUM—Liquid.

Non-poisonous yet very effective of ridding lawns of ants. Drives roaches away. Makes a very satisfactory disinfectant and antiseptic. 6 oz. bottle, 25c; pint, 40c; qt., 60c; ½ gal., 90c; gal., \$1.50.

FORMALDEHYDE. "Barteo Brand"—Liquid.

For the prevention of smut on grains; it is easy to apply. One bottle, diluted with 40 to 50 gallons of water is sufficient to treat thoroughly 30 bu. of wheat or barley for smut; 40 bu. of oats for smut; or 60 bu. of flax for wilt. 16 oz. bottle, 50c.

INSECT POWDER.

None better. Don't be deceived by any low priced article. ¼ lb., 20c; ½ lb., 30c; 1 lb., 50c; 5 lb. pkg., \$2.25.



KEROSENE EMULSION—Liquid.

For plant lice of any kind, cabbage worms, scales, insects on trees, etc. Recommended especially for maple tree scale. Ready for use by adding 25 to 50 parts of water to 1 pint of emulsion. Qt., 50c; gal., \$1.25; 5 gal. can, \$5.00.

LEMNOL OIL COMPOUND—Liquid.

One of the cheapest, safest and most effective insecticides. Destroys all insects on leaves and roots of plants without injury to flower or foliage, leaving no foreign odor. Dilute with 30 to 50 parts of water. ½ pt., 30c; pt., 50c; qt., 85c; ½ gal., \$1.40; gal., \$2.25.

LIME AND SULPHUR SOLUTION—Liquid.

For San Jose scale. This is one of the best San Jose scale destroyers and the easiest to use. It is a clear, deep cherry liquid free from sediment. It is ready for use just as you get it without boiling and only needs one gallon of solution to be mixed with 12 gallons of clear water. Pint cans, 25c; qt. can, 40c; 1 gal. can, 70c; 5 gal. can, \$2.50; ½ barrel, \$7.50; 1 barrel, \$12.50.

Ask for price on large quantities.

PURE PARIS GREEN.

Sealed pkgs., ¼ lb., 15c; ½ lb., 25c; 1 lb., 40c. Large quantity at market price.

Paris Green Solution. For small fruits, also for cherries, plums, peaches, apricots, etc., dissolve 4 ozs. Paris Green to 60 gallons of water, add to this 10 lbs. of fresh slacked lime. For apples, pear and all shade trees, 8 ozs. of Paris Green to 60 gallons water and 15 lbs. of lime. The lime is very necessary to prevent burning of the leaves; it also makes Paris Green more soluble.



POWDERED SULPHUR.

Lb., 10c; 4 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00
Large quantities at market price.

SULPHO-TOBACCO SOAP.

This popular insecticide gives excellent satisfaction, and never fails to quickly exterminate all insect life on plants, flowers, shrubs, etc. It is cheap, effective, clean and harmless. 3 oz. cake makes 1½ gallons of prepared solution. 10c. by mail, 13c. 8 oz. cake makes 4 gallons, 20c. by mail, 28c.



TOBACCO DUST.

To drive off green lice in hot beds. Lb., 10c; 10 lbs., 75c; 25 lbs. \$1.50; 100 lbs., \$4.80.

HAMMOND'S SLUG SHOT—Powder.

Recommended to destroy potato bugs and those on tomato and egg plants, currant worms, cabbage lice and worms, fleas, beetles and striped bugs on melons, turnip beets, onions, etc.; canker worms and caterpillars on fruit and ornamental trees. 1 lb. carton, 15c; 5 lb. pkg., 50c; 10 lb. pkg., 90c; 25 lbs., \$2.00.

SCALECIDE—Liquid.

A concentrated soluble oil solution which mixes instantly with water and stays mixed. Can be diluted at the rate of 1 gal. to 15 or 20 gals. of water, and for many purposes, 1 gal. to 40 or 50 gals. of water. It needs nothing else with it. Is a perfect destroyer of all scale and insect pests, but will not injure the trees. Will not clog the finest sprayer. Can be applied any time in the year. 1 qt. can, 40c; 1 gal. can, \$1.00; 5 gal. can, \$4.00.

Insecticides—Continued

TOBACCO STEMS.

For fumigating. 10 lbs. for 40c; 25 lbs. for 70c; 100 lbs. for \$1.75.

TOBACCO PRODUCTS.

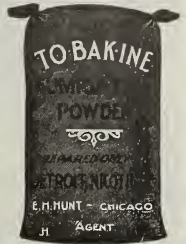
Tobacco, when correctly applied, is a very effective insecticide.

To-bak-ine, Fumigating Paper. A slow burning paper especially prepared and thoroughly saturated with pure nicotine, making its vapors sure death to aphids, red spider, thrip and all insects infecting greenhouses. It will not injure the most delicate flower. Per box of 24 rolls, \$1.15. Per case of 144 rolls, \$5.25.

To-bak-ine Liquid. A concentrated solution of nicotine, containing definite amount adjusted by chemical assay. Contains no ammonia. May be used as a spray or vaporized. 1/2 pint can, \$1.65; 1 pint can, \$3.00.

To-bak-ine Fumigating Powder. This powder is superior to tobacco dust, having the ammonia extracted, and positively contains no adulterations. 50 lb. sack for \$2.50; 100 lb. sack for \$4.80.

For full information regarding these products ask for booklet, "Words of Wisdom."



WHALE OIL SOAP—(Fish Oil).

Used in the greenhouse, nursery and anywhere that insect life exists. Per lb., 15c; 5 lb. box for 60c; 50 lb. box for \$4.00; 100 lb. box, \$7.50.

Whale Oil Soap Solution. Dissolve 2 ounces of soap to 1 gallon of water for all small fruit. For large fruit trees, shade trees, etc., use 3 ounces of soap per gallon.

WHITE HELLEBORE—Powder.

For currant worms, etc. A solution of one ounce of white hellebore to 3 gallons of water is very effective for slugs, and not dangerous to apply when fruits are soon ready for eating. 1/4 lb., 10c; 1/2 lb., 20c; 1 lb., 30c; 5 lb. pkg., \$1.20.

DUSTERS AND SPRAYERS

If wanted by mail, add postage.



BELLOWS.

For powder. No. 14 holds 4 ozs. Each, \$1.10. No. 10 holds 8 ozs. Each, \$1.35.

NOVELTY TIN SPRAY PUMP.

Is used in a bucket. Has four nozzles. Is especially adapted for throwing insecticides on bushes, whitewashing chicken houses, etc., also washing windows, buggies, etc. Price, complete, \$1.25.



NOVELTY.



POWDER DUSTER.



POWDER GUN.

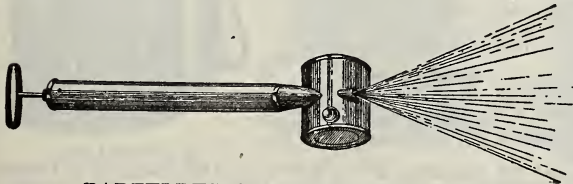
TIN POWDER DUSTER.

Can be used for sifting on any powder insecticide. Perforated bottom. One-half gallon size, each, 40c.

DICKEY POWDER DUSTER, each, 25c.

POWDER GUNS.

Jumbo Gun is designed for use with our Persian Insect Powder; also the various powder insecticides. Holds four ounces. Will outlast several of the cheaper guns. Price, 30c, postpaid for 35c. Small size, "Star," holds two ounces, 15c, postpaid.



BARTELDES' FAULTLESS SPRAYER.

BARTELDES' FAULTLESS SPRAYER.

The best low priced tin sprayer on the market. It throws a spray as fine as steam, and is very useful for applying Liquid Lice Killer in cracks and crevices about the poultry house, roosts, nest boxes, etc.; also about the hog pens. It is more economical of the insecticide than a paint brush or other means of application. For applying insecticides onto rose bushes, shrubs, etc., it is unequalled, and should be in the hands of every gardener, fruit grower and poultry keeper. Price, 50c.

LITTLE WONDER TIN SPRAYER.

Almost similar to Barteldes' Faultless; but made of cheaper material. Price, 25c.



RUBBER PLANT SPRINKLERS.

SCOLLAY RUBBER PLANT SPRINKLERS.

The very best. When once used you will wonder how you got along without it. For sprinkling plants, applying insecticides, etc., will last a lifetime.

No. 1, large, \$1.00. No. 2, large, with bent neck, \$1.00. No. 3, medium, 75c. No. 4, small, 60c.

SPRAY PUMPS

Auto-Spray No. 1

It may be used where any bucket or Knapsack sprayer can be used, and with much more satisfaction.

Eight or ten strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. The "Auto-Spray" is light and a boy can carry it with ease and cover ten times more area in a day than can be covered with the old style sprayers, which require the operator to be constantly pumping in order to do the spraying. The "Auto-Spray" does the work as fast as a man can walk. It will spray every solution that any other pump will handle, including whitewash and cold water paint.

Descriptive circular sent on application. Price: "Auto-Spray" with galvanized iron tank holding 5 gallons, and stop-cock, \$5.00; with brass tank, \$7.50.



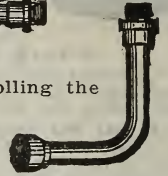
No. 1 AUTO-SPRAY.



2 FT. BRASS EXTENSION PIPE.

Auto-Pop, which is a patented device for controlling the spray and cleaning the nozzle aperture, each, \$1.25.

Underspray Attachment, made of brass, each, 30c.
Extension Brass Pipe, 2 feet long, each, 50c.



UNDERSPRAY ATTACHMENT

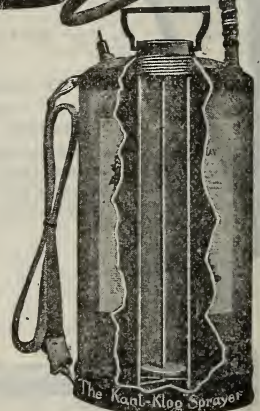
"Kant-Klog" Sprayer

The "Kant-Klog" Sprayer is a compressed air sprayer fitted with a nozzle for making 2 round and 1 flat spray and two solid streams; has thumb pressure Spring Hose-Cock, carrier strap and safety valve. The sprayer body is made of heavy polished brass or galvanized steel, as desired. Both top and bottom are dome-shaped; joined to body under heavy pressure, making a complete double seam. The air pump is made of heavy brass tubing, two inches in diameter.

A few seconds working of the air pump charges the sprayer with compressed air, a powerful and elastic force, which discharges the liquid in the form of either fine sprays or solid streams, as desired.

Each sprayer is fitted without extra charge with "KANT-KLOG" nozzle for making two round and one flat spray, two solid streams, thumb pressure Spring Hose-Cock, carrier strap and safety valve. Lever is not necessary—if wanted add 15c.

Price with galvanized steel body, \$5.00; with polished brass, \$6.75.



KANT-KLOG.

Junior No. 5 Spray Pump

Does away entirely with the objectionable foot-rest, clamps, leather suction, packing, etc., etc.

This Pump requires **no fastening of any kind**, holds itself down and works anywhere and everywhere. All the operator need do is to press the plunger down. **It rises of itself**, the upward stroke being made by a brass spring forcing the cylinders apart.

The **All-Brass** suction working within a **brass cylinder** with all **Brass Valves**, does away entirely with all leather, rubber, or other packing. It is practically impossible for any part to get out of order.

Everything except handle and hose is **Solid Brass**. It is the **Easiest Working** and will do more different kinds of work than any pump ever made. Will pump from a pail, barrel, tank, spring or creek. Without fastenings of any kind it stands firmly wherever placed. Weighs only 4 pounds and is **Ready for Instant Use Everywhere**.

Farmers with an ordinary amount of spraying put a barrel on their wagon, set this pump in and spray their trees as effectively as their neighbor who uses an outfit weighing and costing five times as much.

Will throw two solid, continuous streams, one flat spray and one fine round spray. Has automatic mixer to keep solution stirred, pleases everybody and will last a lifetime.

Price of Pump complete, as shown in cut, \$3.50.

Brass Elbow for spraying underside of low growing plants, each, 40c.

Brass Extension Pipe, 3 feet long, each, 40c. Several can be screwed together when desired. Used for spraying high trees.

Brass Syringes

Well made instruments, suitable for use in applying thin liquid insecticides in greenhouses, etc. Style B, 13½ inches long, 1 3/16 inches diameter. Price, \$2.75.

Fumigators

Galvanized Iron. Used for fumigating greenhouses, etc. Small size, No. 2, \$2.00. Large size, No. 3, \$2.50.

DEMING'S SPRAY PUMPS

WE CARRY A FULL LINE OF REPAIRS AND PARTS FOR DEMING SPRAY PUMPS.



No. 662.

No. 662. Universal Success Pump. With various attachments to make it either a Spray Pump, Plumber's Force Pump, whitewasher or a Fire Extinguisher. No. 662 is fitted regularly with a galvanized tank holding five gallons. The galvanized iron will not withstand the action of the Bordeaux Mixture, Lime, Sulphur and Salt Solutions or Ammoniacal Solution of Copper Carbonate. In case these preparations are used a brass tank will be furnished.

All working parts of pump are brass, including brass ball valves. A sliding cover is prepared to prevent the liquid from splashing out. The air chamber, which is also brass, allows a good pressure to be maintained for each of the various purposes.

Price, complete with galvanized iron tank, \$7.00. Price, complete with brass tank, \$9.00.



No. 669.

No. 669. "The Prize." Has brass working parts with bronze ball valve and malleable foot rest. Is the best pump for the price that has ever been offered. Is furnished with Acme Nozzle. Price, without bucket, \$3.00.

No. 675. The "Success" Knapsack Sprayer. Has a 5-gallon copper tank, a brass pump with bronze ball valves and extra wide straps. Price, \$14.00.

No. 550. The "Simplex" Barrel Spray Pump. The popular orchard sprayer with mechanical agitator and brass working parts. Cylinder 2½ inches.

The air chamber is large and insures a constant stream. The agitator agitates. The discharge has a Y connection. Weight about 60 lbs.

Pump with outfit "A." Consisting of 12½ feet ½-inch hose, a Bordeaux Nozzle and pole connection, all complete ready for use. Price, \$12.00.

Barrel not furnished with pump.



No. 550.

ATTACHMENTS FOR SPRAYERS. Nozzles.

Deming Vermorel with degorger affords a conical discharge. A very popular nozzle. For ¼-inch pipe. Price, 75c, postpaid.

Double Vermorel Nozzles. Two nozzles with connecting piece. Price, complete, \$1.75.

Bordeaux for a fan-shaped spray. Will also throw a solid stream. Price, 75c, postpaid.

RUBBER TUBING.

For use with Spray Pumps. ¾ and ½ inch. 3-ply, 12c per ft.

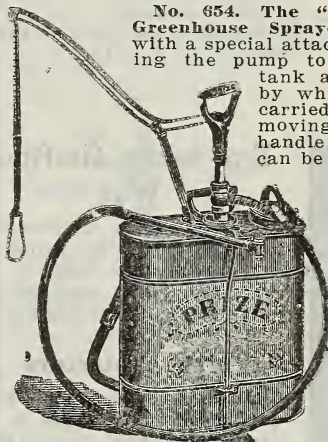
No. 689. "Perfect Success." All parts coming in contact with the liquid are brass with indestructible bronze valves. Malleable iron combination foot rest. Has large air chamber and is double acting, throwing a continuous stream. Is provided with Bordeaux Nozzle and four feet of discharge hose. Price, complete, as shown in cut, except bucket, \$5.00.

We can furnish a 7-foot section hose with couplings and pole-holder to be used in extending the spray to fit either No. 669 or 689 pumps, for \$1.50.



No. 689.

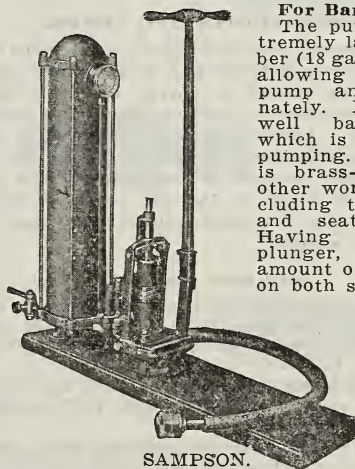
No. 654. The "Prize" Knapsack Greenhouse Sprayer. Is provided with a special attachment for clamping the pump to galvanized iron tank and has a handle by which tank may be carried about after removing the lever and its handle; in this way it can be used similar to a bucket pump. Price, \$9.00.



No. 654.

The Sampson Double Acting Sprayer

For Barrel or Tank. The pump has an extremely large air chamber (18 gallons capacity) allowing the operator to pump and rest alternately. It has a long, well balanced lever, which is a great aid in pumping. The cylinder is brass-lined and all other working parts including the ball valves and seats are brass. Having a differential plunger, an equal amount of work is done on both strokes making it a double acting, which decreases the labor and increases the work done. The pump is furnished with one discharge Y, 8 feet of 1¼-



SAMPSON.

inch wire lined suction hose and strainer. Price, \$35.00.

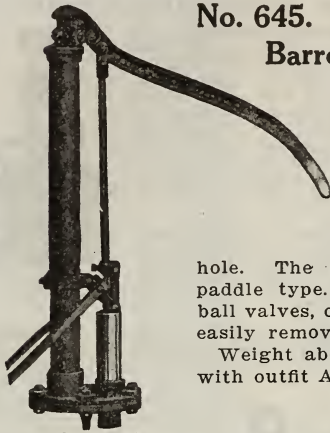
EXTENSION RODS.

Bamboo. 8 ft. Fitted with brass stop cock and ready for nozzle. Complete for \$2.25.

Iron. Fitted ready for use. 4 ft. long, ¼ inch, each, 85c; 6 ft. long, ¼ inch, each, \$1.00; 8 ft. long, ¼ inch, each, \$1.25; 10 ft. long, ¼ inch, each, \$1.50.

Spray Pumps—Continued

No. 645. The Century Barrel Pump



No. 645

This pump sets low in barrel; the cylinder is submerged and is 2 1/4 inches in diameter. Base fits 10x10-inch hole. The agitator is twin paddle type. Cylinder, brass ball valves, cages and seat are easily removed.

Weight about 75 lbs. Price, with outfit A, \$14.25.

Trowbridge Grafting Wax

This is made of standard formula and is furnished in cakes ready for use. 1/4 lb. cake, 15c; 1/2 lb. cake, 20c; 1 lb. cake, 35c; 5 lbs. at 25c per lb.

Tree Protectors

Made of veneer wood. When dampened will blend to fit around the tree. Size 10x18, price, \$1.00 per 100; \$8.00 per 1,000; size 10x22, price, \$1.15 per 100; \$9.00 per 1,000; size 10x24, \$1.25 per 100; \$10.00 per 1,000.



HOT-BED PROTECTING CLOTH.

A waterproof cloth making a grand substitution for glass on hotbeds and cold frames. Protects growing plants in spring and fall from frosts, insects, etc. Promotes hardy and vigorous growth without burning or drawing the plants. No. OO Medium Heavy Grade, 36 in. wide, is best for use in Colorado. Price per yard, 16c; 20 yards at 15c per yard; 50 to 60 yard roll at 14c per yard. Order early and be ready when wanted.

HOT-BED MATS.

Made of Rye Straw. Will not break when wet or dry if bent double. Size, 4 ft. 4 inches by 6 ft. 6 inches, average weight about 21 pounds. Price, each, \$1.25.

HOT-BED SASH. Size, 3 feet, 3 in. by 6 feet, for 8 by 10 glass. Unglazed, each, \$1.75; glazed, each, \$3.75.

They will carry better if unglazed, and advise customers to get glass shipped boxed up; adding price of glass to unglazed sash.

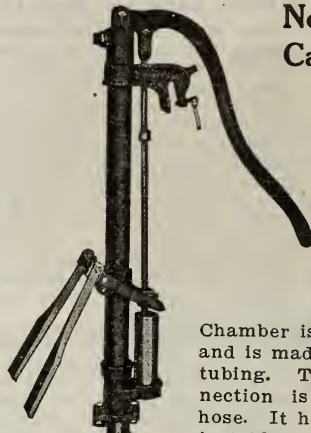
GREENHOUSE AND HOT-BED GLASS.

8x10, 90 in a case; 10x12, 60 in a case. Prices, single glass, case, \$3.75; prices, double glass, case, \$5.50.

Ask for prices on large quantities.

Prices subject to change without notice.

No. 632. The Captain Barrel Sprayer



No. 632

The pump made with 1 1/2 inch Brass Tubing Cylinder; has Brass Ball Valve and Valve Seat and Brass Plunger with improved packing. The Agitator Chamber is ample in capacity and is made of 2 1/4-inch boiler tubing. The Discharge Connection is fitted for 1/2-inch hose. It has an improved adjustable clamp for attaching rigidly to the inside of barrel. The Agitator is simple in construction and very efficient.

Weight about 40 lbs. Pump with outfit A, price, \$11.00.

Weight about 40 lbs. Pump with outfit A, price, \$11.00.



No. 650. Barrel Cart

This cart is very handy, as it dispenses with horse and wagon for spraying orchard or large fields. It carries nicely a 50-gallon barrel, which can be readily disconnected or attached to it. Price, cart only, \$10.50.

With each of these Deming Sprayers we give a valuable book free, "Spraying for Profit." Publisher's price, 20c each. We have many other styles of the Deming Pumps. Ask for special catalogue.

Wire Hanging Baskets

Ten inches, fancy top, each, 25c; 12 inch fancy top, each, 30c; 14 inches, fancy top, each, 35c; 16 inches, fancy top, each, 40c.

SHEET MOSS. For hanging baskets. 1/4 lb, 15c; 1/2 lb., 25c; 1 lb., 40c.

Seed Tryers

Made expressly to use in taking samples of seed and grain from sacks. Made of nickel. Small pocket size, \$1.00; large, 9-inch, for coffee beans, etc., \$1.50.

LAWN REQUISITES

RUBBER HOSE.



RUBBER HOSE.

Barteldes' Columbine Grade. 5-ply Sun-resisting—fully guaranteed—fitted with couplings: Price.

- 50 ft., 1/2-in. \$5.50
- 50 ft., 3/4-in. 6.00

Corrugated Non-Kinkable Hose.

The strongest hose made, fitted with couplings, 3/4-inch size. Price, 25 ft., \$5.00; 50 ft., \$9.25. 1/2-inch size, 25 feet, \$4.25; 50 feet, \$8.00.

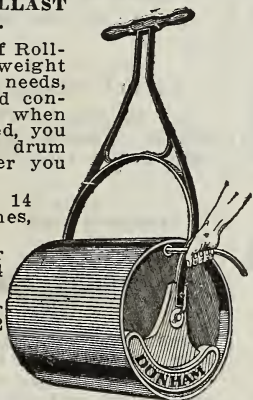
DONHAM WATER BALLAST LAWN ROLLERS.

With this new style of Rollers you can have any weight roller the lawn or land needs, according to season and conditions. In the spring, when a light rolling is wanted, you only need to fill the drum partly, while in summer you may fill full.

Small size, diameter 14 inches, length 20 inches, \$11.50.

Middle size, diameter 18 inches, length 24 inches, \$14.50.

Large size, diameter 18 inches, length 32 inches, \$20.50.



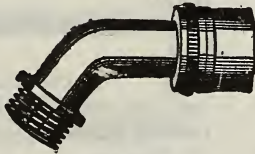
GRASS TRIMMING SHEARS.



For trimming around flower beds, walks, etc. Regular grade, 35c each. Extra grade, 50c each.

GOOSE NECK CONNECTION.

Prevents kink and break of hose near ground connection. Made in 3/4-inch size only. Each, 50c.



GOOSE NECK CONNECTION.

THE LAWN TWIN SPRINKLER.



Is a combination of simplicity, neatness and effectiveness. The two orifices distribute the water with the utmost freedom and completeness. Its location can be changed with ease, while working, with the aid of wire or cord attached to the eye between the bulbs. Price, each, 35c.

COMBINATION SPRINKLER.

This sprinkler will not only sprinkle a full circle, but, by means of a cut off, the spray can be regulated so as to cover a fraction of a circle only. This is particularly desirable in sprinkling near the sidewalk. Price, each, 90c.



BOSTON ROSE SPRAY.

BOSTON ROSE SPRAY.
Brass, 3-inch flat face. For 3/4-inch connection, 60c.

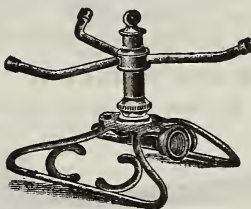
GIBB'S NOZZLE.

Great improvement over the Mystic and Gem, the spray being controllable to the slightest degree. Fits 3/4-inch connection. Each, 35c.



GIBB'S SPRAY NOZZLE.

PRESTON SPRINKLER.



PRESTON SPRINKLER.

This is one of the most effective sprinklers in the market. It gives a fine spray, covers a large circle, distributes the water evenly and presents a very attractive appearance. Each, \$1.15.

PLUVIUS SPRINKLER.

Resembles the Preston, but stands higher, the head and arms being ball bearing, spin with little friction and distribute the water over a large area. Each, \$1.25.

COOPER HOSE MENDER.

The best "mender" on the market, made of brass, with barbs on each end, which prevents hose from slipping out. Millions in use. 1/2 or 3/4-inch, each, 10c; dozen, 75c.



Will not rust or wear out. 1/2 or 3/4-inch, each, 10c; dozen, 75c.

BRASS HOSE COUPLINGS.



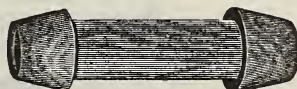
For 1/2-inch and 3/4-inch hose. Per set, 15c; 2 for 25c.

IRON HOSE MENDERS.

1/2 and 3/4-inch. 6 for 25c.

WOODEN HOSE MENDERS.

(Look like Cooper's.) 1/2-inch and 3/4-inch. Per doz., 15c.



WOODEN HOSE MENDER.

PATENT HOSE CLAMP.

1/2-in., 3 for 10c; doz., 35c; 3/4-in., 3 for 10c; doz., 35c.

CALDWELL BRASS WIRE STRAPS.

For 1/2-in. hose, per doz., 15c; 3/4-in. hose, per doz., 15c. Pliers for same, 25c each.

SINGLE HOLE SPRINKLER.

Similar to Lawn Twin but has only one orifice. Price each, 25c. "BOSS" PERFECT HOSE MENDERS, each 10c; 2 for 15c; doz., 60c.

Lawn Requisites—Continued



THE OAK-LAND NOZZLE.

This nozzle throws a good solid stream and a spray with no back pressure on the hose; made in 3/4-inch size only. Each, 35c.

MYSTIC NOZZLE.

The difference between this nozzle and Gibb's is that it has no way of shutting the stream off. Price, 25c.



BLAKE SPRINKLER.

BLAKE SPRINKLER.
The spoon revolves and spray covers a large area. Each, 25c.

BUSY SPRINKLER.
This is same as Blake but is mounted on a low base. Each, 65c.

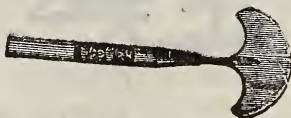
RING SPRINKLER.
The perforations are so arranged as to give a finely divided, well distributed spray. Each, 60c.

MARQUETTE OR FAN SPRINKLER.

This is made with a spike to stick in the ground, and delivers the spray in fan shaped form. Each, 20c.

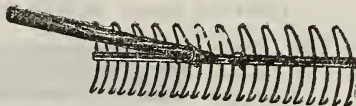
GRASS AND TURF EDGER.

Very useful when working on lawn walks. Price, 65c.



PLANET JR. GRASS EDGER.
Will do either straight or curved edging. Price, \$6.25.

QUEEN CITY LAWN RAKE.

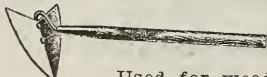


Is reversible and can be used for grass or leaves, 24 teeth, 20 1/2 in. long. Each, 50c.

IMPLEMENT DEPARTMENT

When Garden Tools are wanted by mail, add postage.

Garden and Field Hoes



HEART SHAPED WARREN HOE.

Used for weeding, cultivating, drilling and hilling. Riveted shank, each, 50c.

Double Bit Garden Hoe.

Blade 6 1/2 x 2 1/2 inches. Each, 50c.



MATTOCK HOE, No. 24.

Blade 4 1/2 in. wide. Each, 65c.



PLANT



DIGGER.

Has wooden handle with solid steel point. Used in making holes for setting out plants, 30c. **Plant Digger**, all iron, price, 30c.



SYKES HOSE HOLDER.

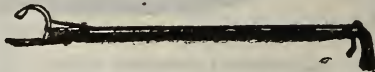
"SNAP" HOSE COUPLINGS.

The handiest coupling on the market. Just push down on the spring lever to disconnect hose. Price, 35c.

SYKES HOSE HOLDER.

Each, 15c.

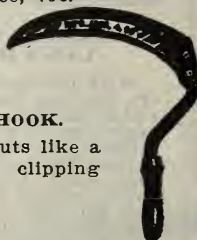
CLIMAX LAWN WEEDER.



No more backache when weeding with this tool. A simple and easy working device for removing noxious weeds and plants from lawns. Easily operated and does effective work. The full length is 42 inches, enabling the operator to stand erect. Push the chisel under the plant at an angle that will sever the roots. A slight pull on the trigger brings the grab down which securely holds the plant, lifting it out and leaving only a slight mark. Price, 75c.

HOSE WASHERS.

To fit 1/2 and 3/4-inch. Doz., 5c.



LITTLE GIANT GRASS HOOK.

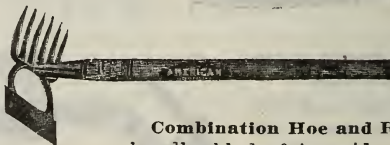
Is a miniature scythe and cuts like a scythe. Handy for lawn, clipping hedges, etc. Price, 50c.

PERFECTION DANDELION PULLER.



Made of best malleable iron. Very light. A sure puller. Price, 40c.

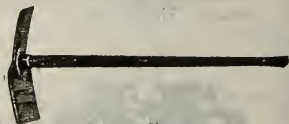
PATENT GRASS SHEARS. Made from tempered steel and has a hardwood roller. Price, \$1.50.



Combination Hoe and Rake. Long handle, blade 6 in. wide. Each, 35c.

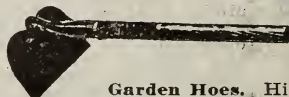
Garden Mattock No. 13.

Blade 1 1/4 and 3 inches wide. Each, 60c.



Garden Hoes.

Good grade steel, riveted socket, each, 25c.



Garden Hoes. High grade steel, solid socket, each, 50c.

Weeding Hoes. One prong, 30c. **Weeding Hoes.** Two prong, 35c.

Implement Department—Continued

GARDEN RAKES.

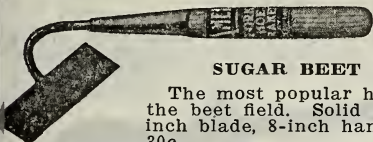
- "Champion," 14 tooth, each, 45c.
- "Champion," 16 tooth, each, 50c.
- "Bow Ideal," 14 tooth, each, 50c.
- "Bow Ideal," 16 tooth, each, 55c.



CHAMPION RAKE.

SUGAR BEET HOE.

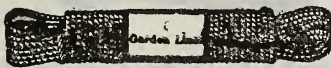
The most popular hand tool in the beet field. Solid shank, 4 1/4-inch blade, 8-inch handle. Each, 30c.



SUGAR BEET HOE.

GARDEN LINES.

These are made expressly for this purpose; best braided. 100 feet, 60c. Reels. For same, per set, 60c.

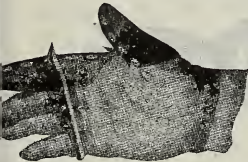


GARDEN SPADE.

M. C. Pattern, very strong. Each, \$1.00.

HUSKING PINS.

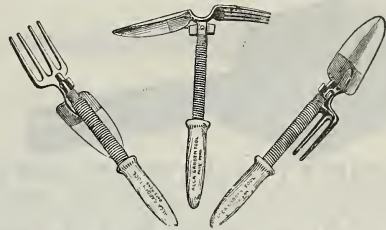
Style 7000 Combination Muleskin thumb and finger stall with patent sliding strap adjustment, with a three-compartment pin riveted on a finger stall. Steel washers protect wearing parts.



HUSKING PINS.

Style 200, husking pin only. Price, 25c.

FIVE-IN-ONE GARDEN TOOL.



Dibber, fork, hoe, trowel and weeder combined. While weeding, digging, planting and transplanting flowers and plants, you are saved the annoyance of missing tools. A spring releases the particular tool you desire and the fret and worry of handling five separate tools is avoided. Price, 35c.

TROWELS.

A good trowel is indispensable. Our No. 3090 is 6 inches long, high grade steel. Price, 30c.



Barteldes' Florist Trowel. Made of best steel especially for our trade and bears our name. Shanks extra strong; blade 6 inches long. Price, 40c.

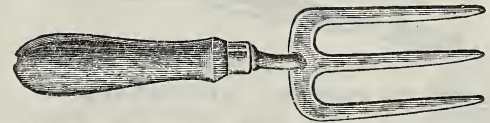
Common Riveted Trowels. 6-inch, 12c; 7-inch, 15c; 8-inch, 20c.

"The Denver." The strongest trowel on the market for the money. 6-in., price, 20c.

Bulb Trowels. Oval shaped, 6 inches long by 4 1/4 wide, very good and strong. Price, 60c.



Cleves' Angular Transplanting Trowels. Small, 5 in., 20c; large, 8 in., 30c each.



Strawberry Transplanting Fork. Price, 20c.

Knives



POCKET BUDDING KNIFE.

Polished black horn handle with ivory tip. A very useful knife. 75c each.



STATIONARY HANDLE PRUNING KNIFE.

High grade steel, 7 1/2 inches long. 50c each.



STATIONARY HANDLE BUDDING KNIFE.

Plain, 6 inches long. 25c each.



GRAFTING KNIFE.

Wooden handle. Each, 30c.



ASPARAGUS KNIFE.

Made of best steel. Used also to cut Dandelion from lawns. 40c each.

BARTEDES' FLORIST PROPAGATING KNIFE.

Made of very best steel; it is handy, strong, well made and cheap. 75c each.

HENCKEL'S GERMAN PRUNING KNIFE.

Pocket style, made of best material throughout. Small size, each, 65c; medium size, each, 75c.

Implement Department—Continued



HUMPHREY'S CONCAVE POTATO KNIFE.

With the Concave Potato Knife seed potatoes can be cut better, and \$2.00 to \$3.00 an acre saved in seed and time by its use. The eyes cut with the knife, have a compact piece and are surrounded by the greatest amount of tuber. If the same eye had been cut by a straight knife the piece would be thin, flat and broad, liable to dry up and decay before germinating. A circular is put in each box with the knife. Price, postpaid, 30c.



SAN JOSE TREE PRUNER.

Has long handles, seamless steel ferrules and notched hooks. Length, 26 in. Each, \$1.00.



FRESNO PATTERN.

FRESNO PATTERN TREE PRUNER.

Forged from high grade tool steel. Finely tempered, has solid wrought steel ferrules and a lock nut. It is 26 inches long. Each, \$1.75.



HEDGE SHEARS.

Heavy steel, notched blades, 9 in. long. Each, \$1.65.

PRUNING SHEARS.



No. 5.

No. 5 has a flat spring, blade with hooks, forged from tool steel, oil tempered and warranted. Length, 9 inches. Each, \$1.25.



No. 9.

Cronk's No. 9 has solid blades and handles with heavy coil spring; very strong. Length, 9 in. Each, \$1.00.

No. 203 Grape Shears. Used for thinning out growing fruits such as grapes, pears, apples, etc. Length, 6 3/4 inches; made from high grade steel, with volute spring. Price, 50c.

Henckel's No. 205. Fine imported shears made of best polished steel; has flat springs and a lock nut. Length, 9 in. Each, \$1.50.



No. 17.

No. 17 has detachable polished tempered steel blade and is 9 inches in length. Each, 50c.



No. 27.

No. 27 has detachable blade of cutlery steel. Notched hook, forged from tool steel and tempered. Length, 9 in. Each, \$1.10.

Hand Weeders

HAZELTINE WEEDER.



Each, 25c, postpaid.

One of the best Solid steel, good size and durable; in general use over the country. Also used for scraping off old bark on fruit trees.

COMBINATION WEEDER.

Combining as it does both the rake and hoe, it is the most serviceable, durable and perfect weeder on the market. Allows weeding close to the plants, and is offered at about the same price as other weeders. Each, 35c, postpaid.



LANG'S HAND WEEDER.



Each, 25c, postpaid.

One of the best of this class, allowing the use of hand while working.

EXCELSIOR WEEDER.

A very useful tool for weeding seed beds, stirring the ground, etc. This is one of the most useful tools in working the garden. No one should be without it. Each, 15c; 3 for 40c; postpaid.



Implement Department—Continued

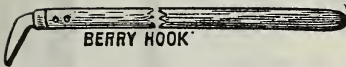
LONG HANDLE TREE PRUNERS.

Waters Improved Tree Pruner.

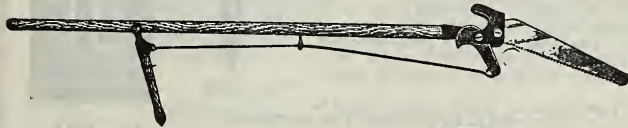
A very popular tool for trimming. 8-foot pole, complete, each, \$1.00; 10-foot pole, complete, each, \$1.15; 12-foot pole, complete, \$1.25. Extra blades, 25c.



BERRY HOOKS.



Just what is wanted by berry growers to use when cleaning out old growth. Price, 75c.



CLIMAX FRUIT PICKER.

The best arrangement we have ever seen for picking apples and pears. It fastens to a pole and has a long bag. Veteran apple men tell us that it is the best contrivance for careful apple picking ever introduced.

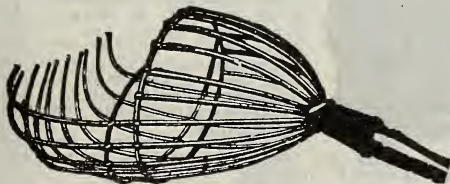
Price, complete with either 8 or 10-ft. pole, \$1.25; without pole, \$1.00.



CLIMAX FRUIT PICKER.

THE PENNSYLVANIA FRUIT PICKER.

This illustration speaks for itself. Every apple grower should use them. Furnished with or without a pole. Price, with pole, 75c; without pole, 50c.

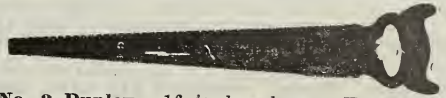


PENNSYLVANIA FRUIT PICKER.

PICKING BAG.

This bag is adjustable as to size of opening and depth, so the pickers avoid dropping the fruit into a long deep bag and bruising a considerable percentage of it. The bottom opens up to let fruit escape from bag into box or barrel without being bruised. Price, \$1.40.

DOUBLE EDGE PRUNING SAW.



No. 2 Duplex. 16 inches long. Each, 65c.

"PERFECTION" PRUNING SAW.

Made of best steel with adjustable blade, so any branch can be easily removed close to trunk of tree. Can be used as a hand saw or fastened to any size pole. The best saw on the market. Each, \$1.75; extra blade, 25c.



Perfection Pruning Saw With a Short Wooden Handle, each, \$1.75.

ELMIRA PRUNING HOOK AND SAW.

Has a detachable saw in addition to the pruning hook. 10-foot pole, \$1.35; 12-foot pole, \$1.50.

PUTTY KNIFE. A very handy tool, 25c each.

GLAZING PUTTY. In ten to twenty-five pound bladders at 4c per pound.

MASTICA. For glazing greenhouses. Saves much time and expense. Nothing equals it. ½ gal., 85c; gal., \$1.50.

MASTICA MACHINE. For applying Mastica, \$1.25.

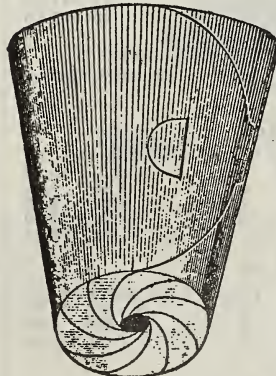
SCOLLAY'S PUTTY BULBS (see cut). For applying liquid putty. \$1.00 each.

BLACK DIAMOND GLASS CUTTER. Each, 20c.

VAN REYPER OR PEERLESS GLAZING POINTS. No rights or lefts. Holds glass firmly. No. 1 for small, single thick glass. No. 2 for medium double thick glass. No. 2½ for large, double thick glass and skylight. 1,000 in a box for 70c.



NEPONSET PAPER FLOWER POTS.



NEPONSET PAPER FLOWER POT.

Made of waterproof fabric. Are absolutely unbreakable. The cheapest pot on the market. 2¼ in. size, 1,000 in crate, weight 15 lbs.; per 100, 35c; per 1,000 \$3.00; 3-in. size, 1,000 in crate, weight 30 lbs.; per 100, 54c; per 1,000, \$4.50; 5-in. size, 500 in crate, weight 26 lbs.; per 100, \$1.00; per 1,000, \$8.75; 5-in. size, 500 in crate, weight 45 lbs.; per 100, \$1.65; per 1,000, \$14.75.

Implement Department—Continued

Thermometers

These prices do not include postage except where noted. Ordinarily they carry safely by mail; however, we cannot guarantee safe arrival. Large Thermometers should be sent by express only. When wanted by mail, ADD TEN CENTS EACH, 2 for 15c, to cover cost of box, packing and postage.

If interested, ask for our pamphlet on Orchard and high grade Thermometers.

No. 5440. 8-inch. Japanned Tin Case. 20c each.
 No. 5430. 10-inch. Japanned Tin Case with silvered scale. Very reliable for household use. 60c each.

No. 5400. 8-inch. Japanned Tin Case. A strictly high grade instrument that can be depended upon at all times. Tested. \$1.00 each.

No. 5400—10 inches. \$1.25.

No. 5162. 10-inch. Distance Reading with magnifying tubes. Suitable for hot-bed, greenhouse or house. 25c each.

No. 5212. 8-inch. Household. Wood back, specially suited for living room. 25c each.

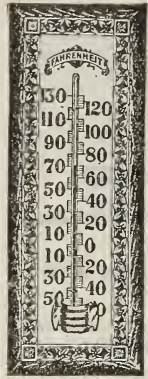
No. 5140. 10-inch Household. Wood back; high grade, with nickel plated mountings. A real useful ornament. 60c each.

No. 5374. Storm Glass with thermometer and barometer combined. An ornament to any porch. 25c each.

No. 5480. 10-inch. Self-Registering. Indicates each day the extremes of the temperature. Mounted on imitation Box-wood, complete with magnet. \$2.00 each.

No. 5472. 10-inch. Self-Registering. Similar instrument to No. 5480 with box-wood scale, fitted with a protecting hood. Each, \$3.00.

No. 5982. Hot-bed. A glass tube mounted in a wooden tube with brass pointed bottom. Recommended for use where growing mushrooms. Each, \$1.25.



No. 5162.



No. 5480.

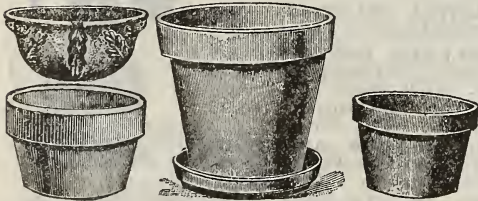


No. 5374.

No. 5981. Hot-bed. A carefully tested mercury thermometer, well made and very accurate. Each, \$2.00.
 No. 5724. 8-inch. All Glass Dairy. For dairymen's use. It floats. Each, 25c.
 No. 5710. 10-inch. All Glass Dairy. Hand graduated, with tube enlarged at center, 50c each.

For Incubator and Brooder Thermometers see price list Poultry Supplies.

Flower Pots and Saucers



HANGING BASKET BULB PANS.

STANDARD POT WITH SAUCER.

AZALEA POT.

BULB OR FERN PANS.

Inch	Each.	Doz.	Inch	Each.	Doz.
6	.10	\$.80	8	.15	\$ 1.25
7	.15	1.00	10	.20	1.75

PRICE LIST—STANDARD POTS.

These prices include packing and delivering to railroad in this city.

Pots.			Pots.		
Inch	Per doz.	Per 100	Inch	Per doz.	Per 100
2	.15	\$.90	6	.75	\$ 5.00
2½	.20	1.10	7	1.00	6.00
3	.30	1.50	8	1.25	9.00
4	.45	2.15	9	1.50	12.00
5	.60	3.60	10	2.00	15.00

Saucers.

Inch	Per doz.	Per 100	Inch	Per doz.	Per 100
4	.25	\$ 1.40	8	.80	\$ 5.00
5	.35	2.00	9	1.00	6.00
6	.40	2.75	10	1.25	8.25
7	.50	3.60			

AZALEA POTS.

Same Prices as Standard.

EARTHEN HANGING BASKETS, 9 inches wide, 25c each.

If you want flower pots per 1,000 ask for latest prices.

KRAMER'S POT HANGERS.

The neatest, simplest, most convenient and practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches across. Single set, 15c; four sets for 50c, postpaid.

BARTELDES' POT HANGERS. 2 links, 3 strands, each, postpaid, 10c.

Plant and Tree Tubs

No. C Tubs have no handles.



These tubs are made from what is known as Everlasting Cypress. A wood that is durable in resisting decay, yet not exceedingly heavy weight. The manufacturer is proud of the workmanship in finishing them neatly. Are painted green, the castings japanned.

When shipping two or more of a size the feet and bolts are packed inside to facilitate nesting.

No.	Outside Top		Bottom	Depth	No. of		Weight	Price
	Diam.	Bottom			Hoops	Hoops		
C	10	9½	9	3	3		\$0.65	
1	12	10	11	3	4¼		1.00	
2	13	10	12	3	7		1.25	
3	14	12	14	3	7½		1.60	
4	16	13	15	3	9		2.10	
5	19	16	18	4	14		3.00	
6	22	20	19	4	17¼		4.00	
8	26	24	23	5	25		5.50	

Implement Department—Continued

Self Watering Window and Porch Flower Boxes and Hanging Baskets

As the name implies, these metal boxes and baskets are provided with a self-watering device which renders attention unnecessary except at intervals of from four to five days. A metal tube in the corner of each box extends from the water reservoir underneath the false bottom upward through the soil to top of box. Inserted in holes in the false bottom are sponges which touch the extreme bottom of reservoir and extend upward through the soil in which the flowers are planted. The water is drawn upward through these sponges in sufficient quantities to maintain a uniform moisture in the soil. These boxes and baskets are made of heavy galvanized iron, neatly painted green, guaranteed not to leak, and provided with eyelets to fasten securely or to hang. On account of our high altitude and dry atmosphere they are provided, especially for our trade, with larger sponges and reservoir than usually furnished.

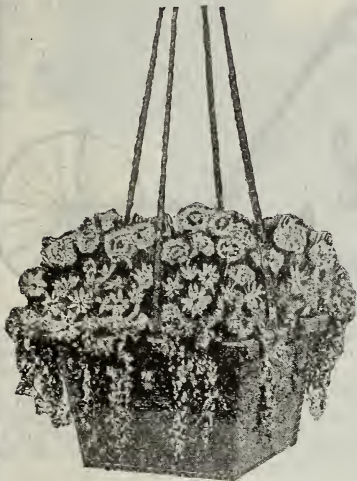
With each box or basket we will furnish free a booklet containing practical suggestions for window or porch boxes, by Eben E. Rexford.

- Price List of Window Boxes.**
 No. 1, 8 in. high, 9½ in. wide, 23 in. long, each.....\$1.85
 No. 4, 8 in. high, 9½ in. wide, 29 in. long, each..... 2.30

- Price List of Porch Boxes.**
 No. 21, 9 in. high, 12 in. wide, 37 in. long, each.....\$3.30
 No. 22, 9 in. high, 12 in. wide, 41 in. long, each..... 3.70

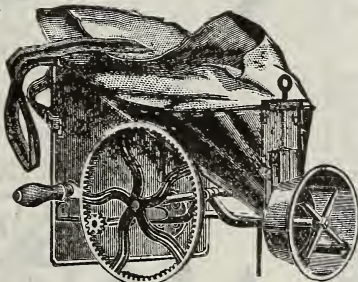
- Price List Hanging Baskets, including Hooks but no Chain.**
 No. 12, 8 in. high, 12 in. square, each.....\$1.75
 No. 14, 9 in. high, 14 in. square, each..... 2.00

COPPER PLATED STEEL CHAIN, for hanging basket, per foot, 4 cents.



Cahoon's Patent Hand Seed Sower

For sowing alfalfa, wheat, oats, barley, rye, buckwheat, grass seeds, etc. The best machine of the kind in the market. The grain is held in a tight sheet-iron hopper surrounded by a bag which will hold a bushel of seed. This is suspended by a strap from the operator's neck, and held in position by a strap around the waist. The seed is thrown from 8 to 20 feet on each side of the operator, the heaviest seed being, of course, thrown the greatest distance. Price, \$3.50.

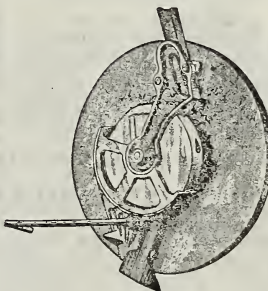


The Eureka Seed Drill

For Kitchen Garden and Hot-Bed Use.

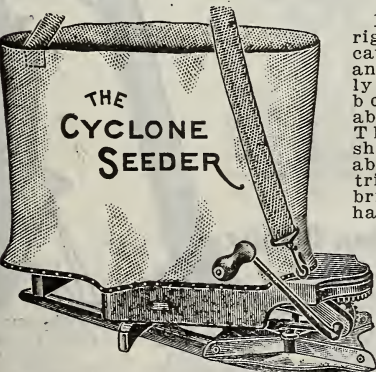
This handy little garden drill is designed only for small plats of ground, hot-beds, etc., and, of course, is not expected to be used for extensive planting, like the large drills.

You can get close up to the sides of your hot-bed with this drill and save the annoyance of filling in by hand the ends of rows as occurs with other machines. Price, each, \$1.25.



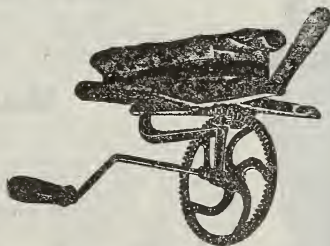
Cyclone Seeder

It has its right side concave in shape and rests nicely against the body just above the hip. The crank shaft being above the distributing wheel brings both hands to nearly a level and gives the operator the easiest, position possible. It sows evenly all kinds of grass seed,



grains and fertilizers. Clover is thrown a width of 18 ft.; timothy, 15 ft.; alfalfa, 20 ft.; wheat, 25 ft.; oats, 18 ft.; millet, 18 ft. An operator can sow from 40 to 50 acres per day. Price, \$1.50.

Premier Broadcast Seed Sower



The frame of the machine, which carries all the bearing parts, is made of one piece of metal, thus assuring perfect and permanent alignment. This feature makes the Premier the easiest running machine on the market and prevents it from getting out of order. The seed is fed to the fan wheel through an adjustable slide. In such a manner as to insure even distribution. The slide can be closed instantly. The grain bag is supported by a strap thrown across the shoulders. The Premier will sow any seed that is sown broadcast, such as oats, wheat, rye, barley, flax, millet, clover, timothy, grass seed, etc. Price, \$1.25.

Implement Department—Continued

Royal Wheelbarrow Chain Feed Seeders



They run easily and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which is made of steel, 32 inches high with a tire 1 1/4 inches wide by 1/4 inch thick. The seeder is instantly thrown out of gear by a lever

and the quantity of seed sown is quickly governed by changing the pin in the index plate.
 No. 11. Single Hopper Seeder, sows all small seeds, like clover, timothy and alfalfa. With hopper, 14 ft. long. Price, \$8.50.
 No. 12. Double Hopper Seeder, 14 ft. long, sows all small seeds, and also chaffy seeds, like orchard grass, fescue, etc. Price, \$9.00.

Thompson's Wheelbarrow Grass Seeder

For All Kinds of Grass Seed.

No. 8. For sowing Brome grass, clover, timothy, millet, alfalfa, etc. Price, complete, \$10.00.
 No. 8. Hopper only, \$6.00.

Hand Planters

For Planting Corn, Beans and Kaffir Corn.



IMPROVED ROTARY.

Acme works in any soil; has a flexible and adjustable iron drop, also an iron seed box and iron channel. The foot is made of polished steel. It is well made, strong, durable, reliable and gives universal satisfaction. Price, \$1.00.

The Acme Rotary. Price, \$2.00.

"Diamond" Improved Rotary. Has rotary drop. Three seed plates with seven chambers each. Works perfectly. When wanted for planting Kaffir corn please mention in order. A disk with special size holes is required. Price, \$1.25.

The Acme Garden Plow



It is equipped with mold board, sweep, reversible taper shovel and rake. The wheel is 20 inches in diameter and the sweep is 18 inches wide. It is a compact and solid garden plow.

ACME GARDEN PLOW.

with a land-side, which runs steady and is easy to push. All steel tools are covered with transparent anti-rust lacquer. Handles are bent at ends, not sawed, giving a comfortable grip, and are not disturbed in making adjustments of tools, and these can be adjusted into any desired position. The handles are placed so that the least pressure is required to propel, so making it very light draft. Price, \$3.50.

Monogram Garden Cultivator



This cultivator is light weighing 8 1/2 pounds, with one attachment in place. A child or woman can easily operate it. All attachments are made of high-grade steel. It can be adjusted to any height of person without removing any bolts and without tool. Price, \$2.00.

MONOGRAM CULTIVATOR.

Eureka Tubular Potato Planter

A very handy tool with jaws of crucible steel, points polished. Galvanized iron taper conveying tube, natural finish. Handle well braced, smooth and comfortable. Planter finished in black Japan. Height, 36 inches. Price, \$1.25.

Master Plant Setter

A man with one of these plant setters can plant more than three men can set by hand. Don't wait for showers, but keep the planter going every day, regardless of the weather and by using liquid fertilizer instead of pure water you will produce the best stand of plants ever seen. No stooping, no more backache. Two barrels of water and a setter will insure a perfect stand of plants, rain or no rain. Price, \$4.00.

Segment "One-Hand" Corn and Bean Planter

Never Cracks a Kernel nor Skips a Hill.

The seed pocket can be sufficiently enlarged to perfectly adapt it for planting the largest field beans as well as corn. The seed box and hopper are of galvanized iron. All of the working parts are stamped out of sheet steel and are therefore extremely light, strong and accurate. Price, \$1.50.



MASTER PLANT SETTER.



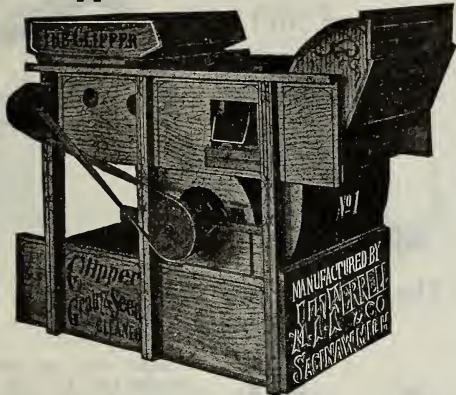
EUREKA POTATO PLANTER

SEGMENT ONE-HAND CORN PLANTER.

Barteldes Re-cleaned Field Seeds are best adapted for Dry Farming. They are not only the best grade that money can buy, but are re-cleaned by us through the best up-to-date cleaning machines. Buy Barteldes' "Columbine" grade.

Implement Department—Continued

The Clipper Grain and Seed Cleaner



Clean your grain thoroughly before taking it to market with a Clipper. You will save the price of a machine in a very short time. We use several in our warehouse and heartily recommend it. Is adaptable for cleaning all classes of grain or seeds, such as wheat, corn, oats, barley, rye, beans, peas, buckwheat, millet, clover, alfalfa, timothy, flax, etc., and is suitable for farm or general use. Unlike other mills, the "Clipper" cleans all classes of seed and grain thoroughly in one operation, without any waste, and leaves no tailings to be rehandled. Effectual separation of plantain from clover seed is accomplished, removing all imperfect and foreign seed therefrom, as well as cleaning the perfect seed.

No. 1. Farm size, with 10 screens, complete, \$25.00. No. 2. Warehouse size, \$35.00. For larger sizes ask for special catalogue of Clipper Machines.

REPAIRS AND EXTRAS FOR CLIPPER GRAIN AND SEED CLEANER.

- Screens for No. 1 Mill, wood frame, each, \$1.35.
- Screens for No. 2 Mill, wood frame, each, \$1.50.
- Large cog wheel without crank, each \$1.25.
- Small cog wheel for No. 1 or 2 Mill, each, 30c.
- Handles for crank, 35c.
- Stool for large cog wheel, 50c.
- Fan arm casting, No. 107, 60c.
- Fan journal casting, No. 109, 70c.

GRAIN SCALE TESTERS.

- One quart size, price.....\$14.00
- Two quart size, price..... 15.00

The Mosher Bag Holder

Holds firmly bags of various lengths. Weight 25 lbs. Price, \$3.75.



MOSHER BAG HOLDER.

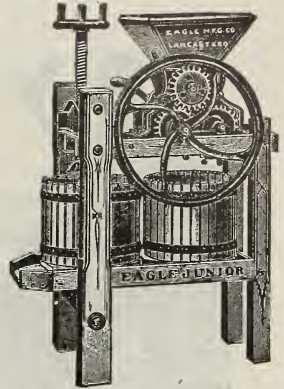
Perfection Screen Corn Grader

The Perfection is admitted by all to be the most simple, practicable and efficient device ever made for grading seed corn. It is now used by Experiment Stations and thousands of farmers all over the country. It is most RAPID and ACCURATE, grading perfectly one bushel in four minutes.

This Double Screen Grader gets four grades of corn just as it comes from the ear, viz.: 1st, the large, odd-shaped kernels; 2d, the even, perfect kernels; 3rd, the small kernels; 4th, the flat kernels that are too thin for seed. Price, \$1.50.

Cider Mills

Our mills have adjustable crusher, large tubs, slats are firmly riveted and run easily. These mills will produce fully 25 per cent more cider from same quantity of apples than any other style of mills. The mills crush the fruit thoroughly and the press extracts every drop available.



Three Sizes:

- Junior, 2 tubs, 1 crank (see cut). Price..\$15.00
- Medium, 2 tubs, 1 crank. Price..... 21.00
- Senior, 2 tubs, 2 cranks. Price..... 28.00



Banner Root Cutters

For Cutting All Kinds of Roots for Stock Feeding.

BANNER NO. 20.

No. 20. It is the most rapid cutter ever invented. It cuts everything in the root and vegetable line readily into long, thin, one-half round slices; separates dirt and cut feed; has a self-feeder. Capacity, 30 to 50 bushels per hour. All danger of choking completely obviated by this machine. Weight, 120 lbs. Price, \$12.00.

No. 15. Hand and Power, same size and capacity as No. 20. Weight, 135 lbs. Price, \$14.00.

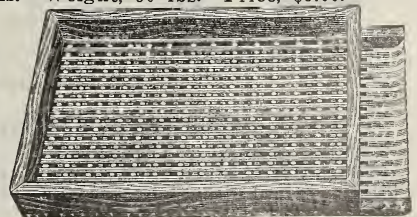
No. 16. This machine can be used for hand or power, and it is the only cutter having a balance wheel. It is also supplied with a pulley for belt power, and a crank so it can be used by hand; in fact, it is a small size power cutter, and the best machine for hand and power use. It runs easily by hand. This cutter has a self-feeder and dirt separator.

The Pulley is 12 inches in diameter, with a 3-in. face, and fastens to either end of shaft. It has lugs on bottom of legs so it can be fastened to the floor.

Capacity when run by hand, 30 to 50 bushels per hour. Capacity when run by power, 1 to 3 bushels per minute. Weight, 150 pounds. Price, complete, \$20.

No. 10. Largest Power Cutter; capacity 5 to 7 bushels per minute. Weight, 340 lbs. Price, \$30.00.

Banner No. 7—The Poultryman's Friend. Just the thing to cut beets, turnips, carrots, etc., for all kinds of poultry. The knives are adjustable and made of the very best steel. Two to five minutes will cut enough for a large flock of fowls. Weight, 50 lbs. Price, \$5.00.



Implement Department—Continued



**Black Hawk
Corn Sheller**

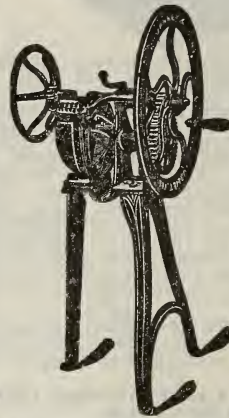
Shells any size thoroughly. Can't be beat for the price. \$2.50.

**Black Hawk
Feed Mill**



Grinds all kinds of grains, fine or coarse. Price, \$3.

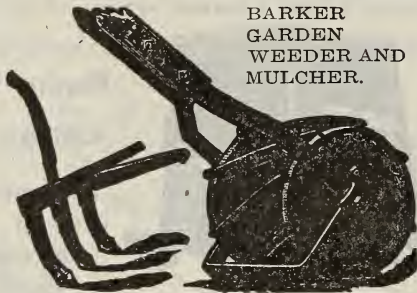
**The Humphrey Green Bone and
Vegetable Cutter**



Sold on a positive guarantee to cut more bone in less time and with less labor than any other bone cutter made.

The Humphrey Green Bone and Vegetable Cutter is offered our customers with the assurance that it is the best machine of the kind made today. We recommend it only because we feel that it will give perfect satisfaction. It runs so easily, works so rapidly, that it easily ranks first of all bone cutters. We do not feel that we are called upon to point out the advantages of green cut bone, or to dwell upon its value. That is conceded by every poultryman. In the "Humphrey" they will find the machine they have been looking for. It works to perfection. It will pay for itself in a few months' time, at any season of the year. It cuts any bone; also roots, etc.

HUMPHREY'S GREEN BONE CUTTER. No. 1 weighs 120 lbs., hand power only, \$13.00. No. 2 power only, \$14.50. No. 2½ weighs 135 lbs., hand and power, \$16.00.



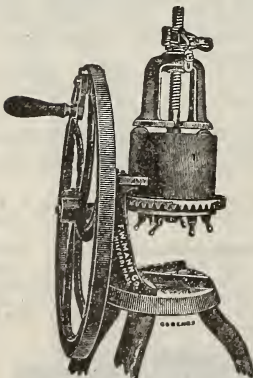
BARKER GARDEN WEEDER AND MULCHER.

Barker's Garden Weeder

The Barker Garden Weeder and Mulcher operates on the plan of a lawn mower. The rear blade or knife passes beneath the surface of the soil and the revolving blades pass over it, cutting the weeds off, and chopping them up so that they soon dry up and die. It will not work when the weeds are a foot or two high, but it will work successfully in any garden kept the way a garden should be kept. The tool is 8 inches in width and weighs about 15 pounds. Price, \$5.00.

Mann's Bone Cutters

- No. 5C. With crank. \$ 7.00
- No. 5B. With balance wheel. 9.50
- No. 5BM. With balance wheel and iron stand. 12.00
- No. 7. New model open hinged cylinder. 14.00
- No. 7½. Combination hand and power. 19.00



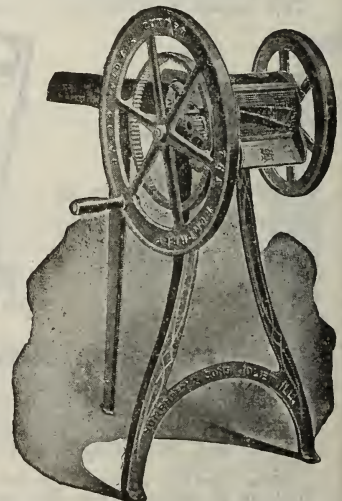
MANN'S No. 7.

Mann's Clover Cutter

Made Entirely of Iron and Steel. Cannot Warp or Shrink.

It cuts any kind of hay or clover, either dry or green, very rapidly. Every revolution of the balance wheel produces twelve cuts. Price, complete, \$11.75; without iron legs, can easily be fastened to a stand or to a table, \$9.25.

We can furnish other sizes of Mann's machines to those who wish them. Ask for special catalogue.



HUMPHREY'S CLOVER CUTTER.

Humphrey's Clover Cutter

Built by the same people who manufacture the Humphrey Bone Cutter. This is sufficient recommendation to commend it to all. Price, without legs, weighs 85 lbs., \$9.50; with legs, complete, \$12.00.

Implement Department—Continued

The Humphrey Grit Crusher



Hens must be supplied with some form of grit, and there are few places in our country where you do not find glistening granite boulders, flint or hard rock, which can be readily reduced into a satisfactory grit. The Humphrey Grit Crusher is a circular mortar, 9 inches in diameter and 11 inches high, with a perforated bottom. With one of them you can break enough grit in half an hour to last your fowls several weeks, and the material costs you nothing. Price, \$4.00. Weighs 40 lbs.

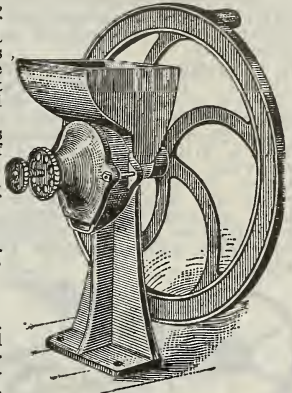
We handle a full line of Humphrey Bone Cutters. Ask for Catalog.

No. 32 Hand Grinding Mill

This machine grinds fine or coarse, oats, barley, rye, corn, peas, dry bone, shells, etc., for feeding to poultry. It is a well designed machine, is strong and well made throughout and of excellent finish; has a 16-inch fly wheel and is light running.

The capacity of this mill is not equalled by any other of the same size. Price, \$5.00.

Shipping weight, 40 pounds. Capacity, 1 or 2 bushels per hour.

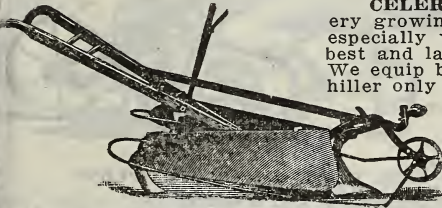


No. 35 Hand Grinding Mill

This mill is similar to No. 32, but is run either by hand or power. When run by power the capacity is 3 to 4 bushels per hour. Price, \$8.00. Shipping weight, 60 lbs.

PLANET JR. GARDEN AND FARM TOOLS

Planet Jr. Double and Single Celery Hillers



DOUBLE CELERY HILLER.

CELERY HILLERS are now considered indispensable in celery growing. The leaf lifters are adjustable in height, and are especially valuable for first workings. With them some of our best and largest growers hill their celery without any handling. We equip both with lever expanders and leaf lifters. The double hiller only is fitted with lever wheels. The hilling blades are 43 inches long, adjustable in width or height as wanted, the double machine works all rows up to 4 feet apart. The single works all widths, and where market gardeners plant close and first bleach every other row, it is "just the thing." It is also excellent help for burying the crop. Before hilling, the soil should be thoroughly loosened with a horse hoe.

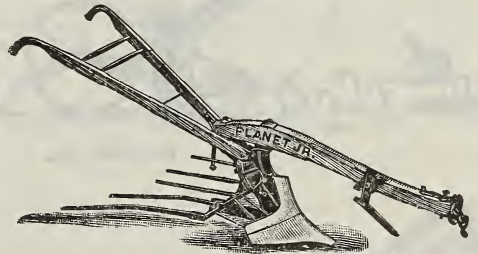
Price, double, \$16.00; weighs 88 lbs. Price, single, \$13.00; weighs 68 lbs.

Planet Jr. Hilling Attachment

This special Hilling Attachment fits any of our Planet Jr. Horse Hoes, and is very effective. It is either complete, or as an attachment to regular Planet Jr. Horse Hoe. Price, complete with Horse Hoe, \$9.00. Attachment alone, \$3.85.

Planet Jr. Potato Digger

It works well either in green vines or ripe, and does excellent work even when the crop has become very heavy. The tines on the mold board tear the furrow apart and the digging tines complete the work, leaving the potatoes spread on the surface. It is entirely unnecessary to leave every other row with this machine; all can be dug successively. Price, \$18.00; weight, 123 lbs.



EXTRAS AND PARTS FOR PLANET JR. HAND TOOLS.

Double Moldboard Plow, fits Single Wheel Hoes, also No. 1 and No. 4 Combined Drills	\$1.25
Double Moldboard Plow, with connecting bar fitting all Double Wheel Hoes	1.50
Patent Harvester and Path Cleaner, 8-in. at 75c; 12-in.	1.00
Muffle Hoes, fit any of the hand tools. For right-hand styles order "D-1," for left order "C," each.	.50
Muffle Hoes, blades only above sizes and styles, each.	.25
Wheels for Combined No. 1 Drill, per pair	1.00
Wheels for Combined No. 4 Drill, per set of three	1.00
Wheels for Single Wheel Hoes, one 7-in., one 4-in., per pair	1.00
Plow for Combined Drills, and also Single Wheel Cultivators. Each	1.25
Wheels, each.	.15
Wheels for Double Wheel Hoes, etc. Per pair	1.15
Handles, wooden, for Drills and Wheel Hoes. Per pair	.75
Cultivators, complete for hand tools. Each	.35
Wheels for Guards for Single or Double Wheel Hoes. Each	.25

For other parts and extras write us, and if possible designate by "number" stamped on part wanted.

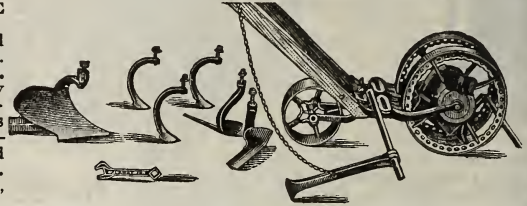
Planet Jr. Farm and Garden Tools

We show in the following pages cuts of the best known machines of the Celebrated Planet, Jr., line.

The great machines that have become the world's standard. Guaranteed to be better made, better finished, stronger and capable of doing harder work and better work, with less labor to the operator, than any others on the market. Examine any one of them anywhere to be convinced of these facts.

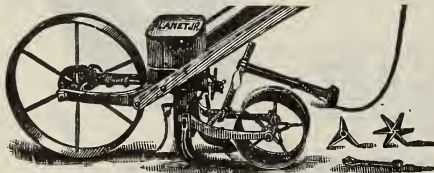
No. 1. COMBINED DRILL SEEDER, WHEEL HOE CULTIVATOR AND PLOW.

This has long been the most popular combined tool made. As a seed sower it is the same as No. 2 Drill Seeder, but is smaller, holding three pints. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be attached. It is an excellent seed sower, a first class double or single wheel hoe, an excellent furrower, an admirable wheel cultivator, and a rapid and efficient garden plow. Weight 44 pounds. Price with tools as shown, \$9.50; with pair rakes, \$10.00.



No. 3. HILL AND DRILL SEEDER.

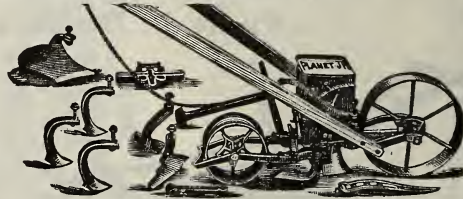
It sows evenly in drills, and also drops in hills at 4, 6, 8, 12 or 24 inches apart. It is thrown out of gear instantly by moving a convenient lever; or the flow of seed is stopped by pushing down the rod. No time is lost, no seed is wasted. It is quickly set to sow different kinds of seed in the exact thickness desired. It covers and rolls down light or heavy, and marks the next row clearly. Holds three quarts. Weight 43 pounds Price, \$10.50



No. 4. IMPROVED HILL AND DRILL SEEDER, WHEEL HOE CULTIVATOR AND PLOW.

This admirable tool combined in a single convenient implement a grand hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and as a seeder is like No. 3, sowing in continuous rows, or dropping in hills in five different distances. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe, garden plow or cultivator. It is useful almost every day of the season, at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crop. Price with tools as shown, weight 53 lbs., \$11.00; with rakes \$12.00; as a drill only, \$9.00.

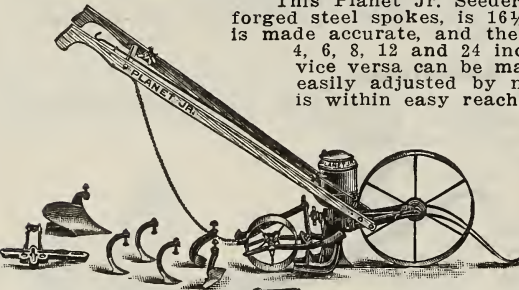
No. 3. HILL AND DRILL SEEDER, WHEEL HOE CULTIVATOR AND PLOW.



No. 6. PLANET JR.

COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW.

This Planet Jr. Seeder is made as perfect as possible. The wheel has forged steel spokes, is 16½ inches high, and is most substantial. The feed is made accurate, and the hill dropping device is made of steel. It drops 4, 6, 8, 12 and 24 inches apart and the change from drill to hill and vice versa can be made in a few seconds. The index is a new design, easily adjusted by means of an accurate thumb screw. The cut-off is within easy reach of the thumb and fore finger of the right hand.



No. 6. PLANET JR.

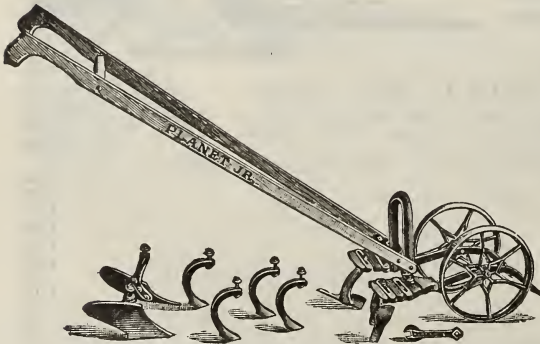
The opening plow is narrower than other drills and the covers have sufficient opportunity to swing to adjust themselves to all inequalities of the ground. The roller is wide and hollow faced and has a scraper on its rear to return at once to their proper place, the seeds and wet soil adhering to it. The handles adjust to a man or boy's height. Weight packed, 64 pounds, \$13.50

Price for the Machine complete, \$13.50

No. 12. DOUBLE WHEEL HOE CULTIVATOR AND PLOW.

The number of different kinds of work done by this one tool is marvelous, and all are done in the most perfect manner. The teeth are changed with the greatest ease and quickness without taking the nuts from the standards. The wheels may be set at four different distances apart; the frame at three heights. The handles are adjustable in height to suit man or boy. For rapid and perfect work, it's the money making tool a farmer can own. Weight 3 pounds. Price with tools as shown, \$7.00

No. 13. This tool is the No. 12 with pair six inch Scuffle Hoes only, this being the most useful form of low priced Cultivator. Price \$4.75



No. 12. PLANET JR.

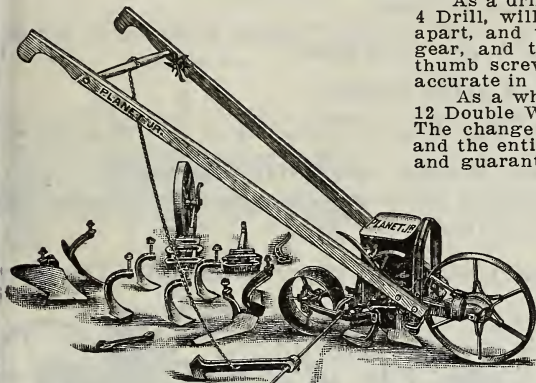


No. 13. PLANET JR.

No. 38. PLANET JR. SINGLE WHEEL DISC HOE CULTIVATOR AND PLOW. Price complete in cut, \$7.00. Packed, weight 29 pounds. 1 set

No. 38. PLANET JR. SINGLE WHEEL DISC HOE CULTIVATOR AND PLOW. Price complete in cut, \$7.00. Packed, weight 29 pounds. 1 set

No. 25. COMBINED HILL AND DRILL SEEDER AND DOUBLE WHEEL HOE, PLOW, ETC.



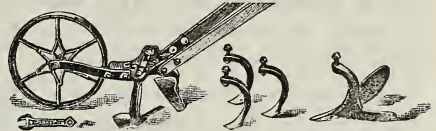
No. 25. COMBINED DRILL AND DOUBLE WHEEL HOE.

As a drill it is almost identical with the "Planet Jr." No. 4 Drill, will sow in hills and drills, 4, 6, 8, 12 or 24 inches apart, and the same automatic device for throwing out of gear, and the new combined cut-off and seed index with thumb screw adjustment. It is thoroughly substantial and accurate in sowing all kinds of seeds, either in hills or drills.

As a wheel hoe, it is identical with the "Planet Jr." No. 12 Double Wheel Hoe, the very best machine on the market. The change from Drill to Wheel Hoe takes but a moment, and the entire combination is one we can heartily recommend and guarantee to be satisfactory. Weight 58 lbs.

Price as shown in cut with all parts, \$13.50

No. 18. This tool has the same frame and handles as No. 16, but has one pair of 6 inch hoes only—the tools that are most constantly useful throughout the season. All the others can be added as needed.....Price \$3.50



No. 17 SINGLE WHEEL HOE.

No. 14. PLANET JR. DOUBLE WHEEL DISC HOE, CULTIVATOR AND PLOW.

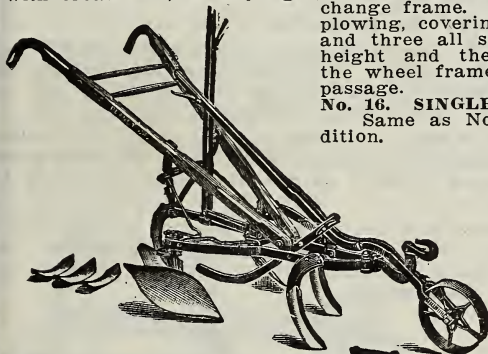
Price with attachment \$8.00; packed, weight 38 lbs.; one set disc hoes, one pair 3-prong culti vator teeth, one pair plows, one pair leaf-lifters.

No. 17. SINGLE WHEEL HOE CULTIVATOR AND PLOW.

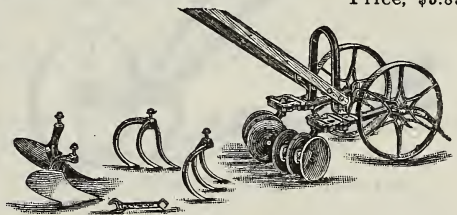
This latest and best single wheel hoe has a very full set of tools, several of them being of a new design, such as have been found to work in the very best manner. It has 11-inch wheel with broad face, is very light, strong and easy running. It has adjustable handles and quick-change frame. The tools are a well-shaped plow for marking out, plowing, covering and late cultivation, a pair of 6-inch shield hoes and three all steel patent cultivator teeth, the frame changes in height and the wheel may be attached to the other side of the wheel frame, when both sides of the row may be hoed at one passage.

No. 16. SINGLE WHEEL HOE CULTIVATOR, RAKE AND PLOW.

Same as No. 17, but has two rakes and a leaf lifter in addition. Price, \$5.00



PLANET JR. No. 8 HORSE HOE AND CULTIVATOR.



No. 14. PLANET JR.

THE "PLANET JR." No. 8 HORSE HOE AND CULTIVATOR. Probably no other cultivating machine is so widely known as the "Planet Jr." Combined Horse Hoe and Cultivator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle.

The Frame is longer than usual and about one and a half inches higher, making a tool that will not clog easily.

The Standards are formed up hollow with round throats of stiff steel, they polish quickly and free themselves readily from obstructions and they clasp the frames and strengthen it.

The Depth is under perfect control by means of a new lever wheel and the new patented depth regulator which is moved instantly in unison by a single lever, making exact work, steadying the machine and relieving the operator.

The Expander. This is an entirely new pattern, superior to all other forms, exceedingly strong, simple, accurate and positive in all positions.

Handles and Braces. These are also new and the most effective and stiffest combination known, at once making the tool rigid, yet allowing every adjustment of handles in height and sidewise.

The Reversible Side Hoes. Patented, are an important part of the implement. As shown in the cut, they act as plows and hillers, but when turned end for end the tool becomes a genuine hoe, working so closely that an immense amount of hard labor is avoided.

Every part is perfected to make the tool acceptable to the farmer who knows the best is cheapest. Price, \$9.00

No. 7. Same as illustrated, except no depth regulator. Weighs 77 lbs. Price, \$8.50.

No. 9. Same tool without depth regulator, and a plain wheel instead of lever wheel. Weighs 72 lbs. Price, \$7.75.

No. 9. Plain Cultivator. Fitted with five cultivator teeth only. With lever spreader and plain wheel. Weights 64 lbs. Price, \$7.25.

No. 4 Plain Cultivator. Has plain cultivator teeth only, with a stirrup clamp instead of lever spreader and plain wheel. Weighs 57 lbs. Price, \$5.25. No wheel, weighs 49 lbs. Price, \$4.50.

No. 5 Horse Hoe and Cultivator has a lever spreader, but no depth regulator and side braces. Has plain wheel. Weighs 69 lbs. Price, \$7.75.

Planet Jr. Farm and Garden Tools—Continued

No. 2 DRILL SEEDER.

Similar to No. 1 Combined, except the seed hopper is larger, holding three quarts, and machine has no cultivator attachments. Weighs 38 lbs. **Price, \$7.50.**

No. 5 HILL AND DRILL SEEDER.

It is quite identical with No. 3, except its large hopper, capacity 5 quarts, and has drive wheel 16½ inches in diameter. The machine is built slightly heavier, weighing 61 lbs. **Price, \$13.00.**

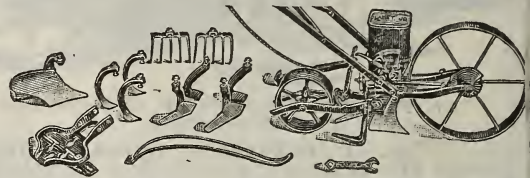
No. 21 COMBINED HILL AND DRILL SEEDER AND FERTILIZER DRILL.

This Seeder, in addition to planting all kinds of garden seeds in rows, or in hills, 4, 6, 8, 1 or 24 inches apart, will also sow the fertilizer at the same passage. The seed hopper holds 3 quarts; the fertilizer hopper, 4 quarts. **Price, \$19.00.**

No. 28 COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR, RAKE AND PLOW

This is the latest and best combined machine. It is the most accurate seeder in action and the nearest perfect in construction. It drops seeds in hills 4, 6, 8, 12 or 24 inches apart or sows them in drills with accuracy. The wheel is 15 inches high with broad tire, making a light running tool. The patent steel handles are a valuable innovation, at once strong, indestructible and neat in design. The hopper holds 3 quarts; weight 71 lbs. **Price, \$15.00.**

No. 29. This is the No. 28 as a Drill and Hill Seeder only; no cultivating attachments. Weight, 57 lbs. **Price, \$11.50.**



No. 28 COMBINED DRILL AND WHEEL HOE.

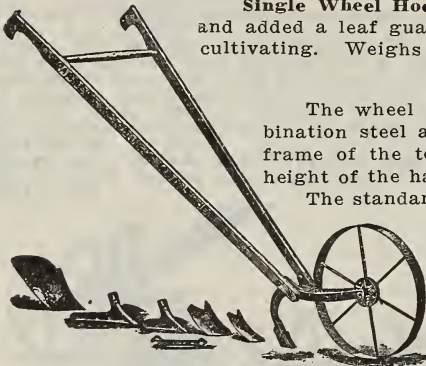
Single Wheel Hoe No. 17½. Same as No. 17, except have omitted the plow and added a leaf guard, making it an excellent tool for onion and sugar beet cultivating. Weighs 22 lbs. **Price, \$4.50.**

FARMERS' No. 19 WHEEL HOE.

The wheel is high and is made with stiff rim and spokes, and a combination steel and malleable iron hub. The wheel arms are steel and the frame of the tool is attached adjustably to the wheel arms, so that the height of the handles may be readily changed to suit man or boy.

The standard is slotted to make regulation of depth easy, and by means of an adjustable malleable filling piece, the same standard is made to carry all the steels that come with the machine.

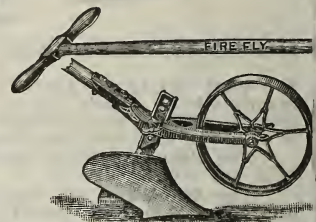
The parts furnished with this tool are: A large Garden Plow, one 10-in. Sweep, one 6-in. Sweep, one 4-in. Cultivator Tooth, one 2-in. Cultivator Tooth. Weighs only 22 lbs. **Price, \$3.75.**



FARMERS' No. 19 WHEEL HOE.

THE FIRE-FLY GARDEN PLOW.

This tool is the most useful in small gardens, opening furrows for manure or seed, and covering them quickly. When irrigating especially useful in making the lateral ditches. Chicken raisers will find it very useful in plowing up the scratching yards. The mold board is of tempered and polished steel; the depth is quickly changed. Weighs 13 lbs. **Price, \$2.35.**



FIRE-FLY GARDEN PLOW

PLANET JR. TWELVE TOOTH HARROW AND CULTIVATOR.

It has a high frame and the chisel teeth can cut an inch wide each. It may be set with teeth trailing. The foot lever pulverizer is a capital addition for preparing ground for the seed drill or for plant setting. Hand levers regulate both width and depth while in motion; it contracts to 12 inches, and may be further reduced in width by taking off the outside teeth; it expands to 32 inches. It cultivates deep without throwing earth upon the plants, and the smooth, round, throated teeth turn strawberry runners without injuring them.

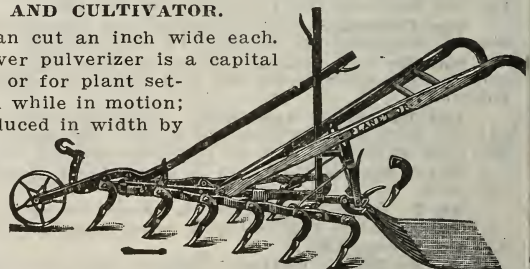
Price, complete as illustrated (weighs 74 lbs.), **\$9.00.**

Same without Pulverizer attachment, **\$7.40.**

Same without both Wheel and Pulverizer attachment. Plain, **\$6.20.**

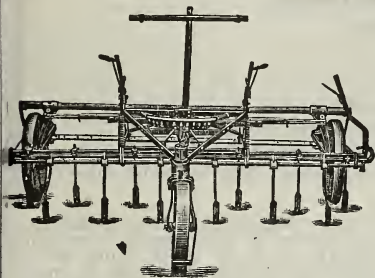
Strawberry Runner Cutter Attachment is a 10-in. disc mounted on an out-rigger, and fit above Harrow. **Price, \$1.85.**

Special 18-in. Sweep with Standard, made expressly to fit 12-tooth harrow when pulverizer is taken off. This combination makes sure destruction of all weeds in its path. **Price, \$1.35.**



Planet Jr. Farm and Garden Tools—Continued

No. 3 PLANET JR. FOUR-ROW SUGAR BEET AND BEAN HORSE HOE AND CULTIVATOR.



No. 3 AS A CULTIVATOR.

DISCS to use in place of hoes; price, \$3.25 per pair. Very much liked for early work. Can be used also to prepare ground for seeding, four or five on each side of centre.

This magnificent tool hoes four rows at once, 18, 20, or 22 inches apart, or three rows 24, 26, 28 or 30 inches apart, or two rows 36 inches to 42 inches. Two levers, assisted by a powerful spring, control the depth to a nicety or easily lift the tool bars clear. For 1914 we supply a two-wheel seat rig in place of one wheel, for three-row cultivation. Additional price, \$12.50. The patent hoes have a down cut next the row and a plant shield; the curved shape allows the closest hoeing at the surface, while rounding away from the roots. The standard is set over away from the beet tops and the front of the hoe is a leaf guard. The wheels are changeable in width for all rows from 18 inches up.

Price, including thirteen 1 1/4 x 8-inch cultivator teeth and five irrigation shovels and standard, four pairs 7-inch beet hoes five 5-inch improved sweeps, three 8-inch improved sweeps, \$90.00. Packed weight, 690 lbs. Less cultivator teeth, \$53.00. Less cultivator teeth and irrigation shovels, \$80.00. Packed weight 600 lbs.

No. 41 PLANET JR. ORCHARD AND UNIVERSAL CULTIVATOR.

Price, with two-tooth extensions, \$48.00. Packed weight, 87 lbs. With one-tooth extensions, \$43.00. Without extensions, \$38.00. Packed weight, 383 lbs.

This is a modern orchard and universal cultivator, built to combine strength, lightness, adjustability and efficiency to the fullest extent in one tool, representing in itself the advantages of our earlier patterns, combined with important improvements.

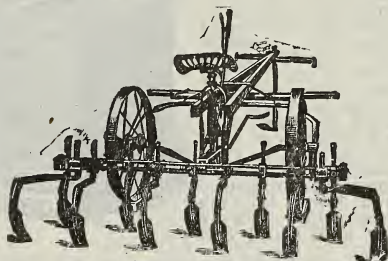
The Steel Wheels are low and entirely enclosed by the frame. Have twelve spokes instead of ten or heretofore.

The Tongue is Steel, hollow and of rectangular section.

The Frame is high carbon steel, compact in form, well braced, heavy and strong.

Without the Extensions, it cuts 4 feet in width, having even stiff steel standards, carrying 2 1/2 x 10-inch teeth.

With the Extensions, it cuts 6 feet 6 inches, carrying eleven teeth, and the frame can be changed to cut any width from 6 1/2 down to 4 feet.

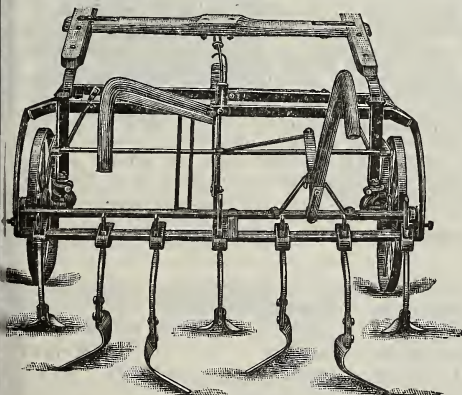


No. 41 ORCHARD CULTIVATOR.

Irrigation Steels, only per set of three, \$2.50.

We supply a set of ten discs and special standards as an extra.

Price, 16-inch, \$4.50 per pair, or \$20.00 per set. This makes a capital disc harrow, light in draft and under perfect control from a comfortable seat.



No. 53 PLANET JR. PIVOT WHEEL TWO-ROW HORSE HOE AND CULTIVATOR.

Packed Weight, 213 lbs.

This new two-row Cultivator is well built, strong and easily adjusted. The hoes do admirable close work and leave the ground level. The steering is done to perfection by the pivot wheel and hand lever. The wheels adjust in width. It works two rows, 16, 18 or 20 inches apart. Price, plain, as in cut, \$22.50. With extra set of seven 1 1/4-inch by 8-inch Cultivator Teeth and Standards, \$25.00. Irrigation steels with special standards, set of three, \$5.00. We can also furnish a set of seven 1 1/4-inch teeth with an adjustable leveling bar for \$3.00 extra.

Special circular on application.

EXTRAS AND REPAIRS FOR PLANET JR. HORSE TOOLS.

These Prices are F. O. B. Denver.

		Each			Each
1 1/4 x 8-in. Steels,	\$	\$0.11	4 x 8-in. Steels, 5 for.	\$0.75	Each \$1.35
3/4 x 8-in. Steels, . . . . .	. . . . .	.12	1 3/4 x 10-in. Steels, 5 for. . . . .	.75	.18
1/2 x 8-in. Steels, 5 for. . . . .	.65	.15	2 1/4 x 10-in. Steels, 5 for. . . . .	.90	.20
3/8 x 8-in. Steels, 5 for. . . . .	.70	.16	3 x 10-in. Steels, 5 for.	1.00	.22
10-inch Steels,	Each \$0.25		15-inch Sweep and Bolt.	\$0.55	Each \$1.35
10-in. St'ls, 5 for \$1.15			18-inch Sweep and Bolt. . . . .	.65	20-inch Furrower Steels.
6-inch Side Steels, each. . . . .	.65		6-inch Hoe and Bolt. . . . .	.50	wings.
4-inch Side Steels, each. . . . .	.70		10-inch Hoe and Bolt. . . . .	.60	20-inch Furrower with re-
4-inch Shovel Steels. . . . .	.35		Beet Hoes, each. . . . .	.50	newable point.
4-inch Shovel Steels. . . . .	.40		3-inch Beet Sweeps. . . . .	.25	Riding Steels.
Bolts. . . . .	.05		5-inch Beet Sweeps. . . . .	.30	Roller.
8-inch Sweep and Bolt. . . . .	.40		8-inch Beet Sweeps. . . . .	.35	Pulverizer.
6-inch Sweep and Bolt. . . . .	.45		10-inch Furrower Steels. . . . .	.90	Pulverizer for Harrow,
2-inch Sweep and Bolt. . . . .	.50				special.

BEE SUPPLY DEPARTMENT

When Bee Supplies are wanted by mail add postage.

GOOD BOOKS FOR BEE-KEEPERS.

Amateur Bee-Keepers, 80 pages; price, 25c, postpaid.

A, B, C of Bee Culture, by A. I. Root; \$2.00, postpaid; not postpaid, \$1.75.

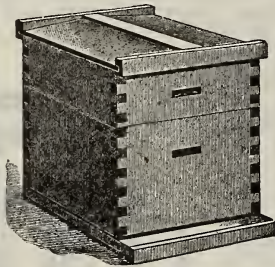
Langstroth on the Honey Bee, revised by Dadant; \$1.20, postpaid; not postpaid, \$1.00.

Advanced Bee Culture, new edition, by Hutchinson; \$1.40, postpaid; not postpaid, \$1.25.

Semi-Monthly Magazine—Bee Gleanings. Very helpful and interesting. Send us your subscription; \$1.00 per year.

DOVETAILED HIVE FOR COMB HONEY, 1½ AND 2-STORY.

This hive is furnished either in eight-frame or ten-frame size. It consists of a plain box of ¾-inch No. 1 white pine, 13 7/8 x 20 inches outside measure, 9 3/4 inches deep, rabbeted ½ x ¾ deep for frames to rest, with hand holes on outside. Eight or ten improved Hoffman frames, and follower board hang in this hive with a bee space above and below.



Follower board is cleated on the ends to prevent warping, and if the cleats are nailed on properly they will form a full bee-space on the side of board going next to the last frame. The bottom board is 14x21 inches, and is cleated, while the cleat in front is leveled down even with the board. The back cleat forms a bee-space below the frames, leaving an entrance in front with alighting board two inches wide. By this means the hive is not cut to form an entrance. This bottom may be used as a cover in an emergency, or it may be fastened permanently to the hive if desired.

The super is 4 1/4 inches deep, with slotted section-holders, sawed slotted separators, follower, and springs. When two supers are included with each hive it is then a two-story hive for comb honey.

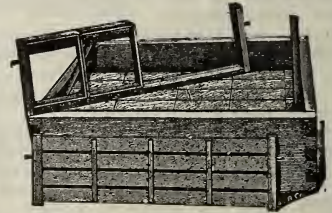
All our hives are furnished with Excelsior cover, which is the best hive cover made, unless otherwise ordered.

This cover has a flat surface on the under side which affords a proper bee space over the brood frames, yet at the same time it is a sloping cover, and will shed the rain as well as gable

cover (which it really is), and has the advantage of double covers made of thin lumber (which splits up so badly), as it is made from solid boards 1 inch thick at the center and 5/8 inch at the outer edge. There are only five pieces in this cover, namely: 2 cover boards, 2 cleats and 1 ridge-board.

DANZENBAKER HIVE.

This hive is slightly shallower than the regular Dovetailed Hive, but has exactly the same cubic capacity as the eight-frame. The brood-frames are just enough shallower so that the two inches of honey that is usually put above the brood in a regular standard hive frame is crowded up into the supers, where it will bring the highest market price. It is made in 10-frame size only. The brood-frames are closed-end 7 1/2 inches deep, 17 inches long and each is supported by a pivot in the center of the end-bars so that it may be readily reversed. The reversing feature makes it possible to get combs built clear out to the end. The frames are closed-end, and stop those chilling air currents across the faces of the combs, a matter of supreme importance in the rearing of brood in the spring.



DANZENBAKER SUPER.

The super takes 4x5x1 3/8 plain sections. This is a deep super, 5 5/8 inches deep, without rabbit in top edge, but with hanger cleats to support Danzenbaker section-holders and M fences with end wedges or springs.

It is made 16 1/4 inches wide to admit easily eight Danzenbaker section-holders and nine M fences with springs.

PRICES OF HIVES FOR COMB HONEY.

The one-story Dovetailed hive includes a cover, bottom and brood chamber, with frames, division board and nails. Any style of super or upper story may be used on this hive.

The one-and-one-half-story hive includes a cover, bottom, brood chamber, complete, and one super with inside fixtures.

The two-story hive includes the same with one more super. Furnished in either eight or ten frame size.

1-story Dov'd hive, no super or upper story, with frame and division board, no foundation starters.

1 1/2-story Dov'd hive for comb honey in 4 1/4 x 4 1/4 x 1 1/8 beeway sections, without section or foundation starters

2-story Dov'd hive for comb honey in 4 1/4 x 4 1/4 x 1 1/8 beeway sections, without section or foundation starters

1 1/2-story Dov'd hive for comb honey in 4 1/4 x 4 1/4 x 1 1/2 plain sections without section or foundation starters

2-story Dov'd hive for comb honey in 4 1/4 x 4 1/4 x 1 1/2 plain sections without section or foundation starters

1-story Danzenbaker hives, used as brood hives, without foundation

1 1/2-story Danzenbaker hives, without sections or foundation starters

Designating Letters and Numbers for 8 & 10 Frame	Nailed and Painted each	—IN FLAT—		Weight of 5
		1 Hive	5 Hives	
AE5-8	\$2.50	\$1.90	\$8.75	100
AE5-10	2.65	2.00	9.50	108
AE2S-8	3.40	2.55	11.50	135
AE2S-10	3.60	2.75	12.50	145
AE522S-8	4.10	3.25	14.00	170
AE522S-10	4.30	3.40	15.00	182
AE52P-8	3.40	2.55	11.50	130
AE52P-10	3.60	2.75	12.50	140
AE522P-8	4.10	3.25	14.00	165
AE522P-10	4.30	3.40	15.00	177
AED5-10	2.60	1.90	9.25	100
AED52M-10	3.50	2.85	12.50	150

Bee Supply Department—Continued

TWO-STORY DOVETAILED HIVES FOR EXTRACTED HONEY IN L FRAMES.

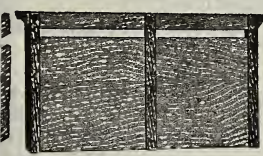
s 2-story hive includes a cover, bottom and two bodies which make a brood-chamber and upper story, each fitted with frames and inside fixtures. Each hive is furnished in either eight or ten frame size.

tory Dov'd hive for extracted honey in L frames 9 1/2 in full depth upper story; no foundation starters

Designating Letters and Numbers for 8 & 10 Frame	Nailed and Painted each	—IN FLAT—		Weight of 5
		1 Hive	5 Hives	
AE55-8	\$4.10	\$3.00	\$14.25	160
AE55-10	4.30	3.15	15.00	175

PRICES OF HIVE PARTS.

NAME AND STYLE	Nailed and Painted		—K. D. in Flat—		Weight of 10
	Each	Each	5	10	
Supers with section holders, etc., for 8-frame dovetail hives.	\$0.75	\$0.70	\$3.25	\$6.25	70 lbs.
Supers with section holders, etc., for 10-frame hives.....	.80	.75	3.40	6.50	80 lbs.
Supers with flat tins only for 8-frame dovetail hives.....	.55	.45	2.00	3.75	40 lbs.
Supers with flat tins only for 10-frame dovetail hives.....	.55	.45	2.10	3.85	42 lbs.
Danzonbaker supers taking 4x5x1 1/2 Plain Sections, include danger-cleated end stops, section holders, M fences and springs.....	1.10	.85	4.00	7.75	80 lbs.
For 8-frame dovetailed hives.....	1.15	.90	4.25	8.25	30 lbs.
For 10-frame dovetailed hives, or Danz. hives.....	.75	.60	2.85	5.50	80 lbs.
Hives, with tin rabbets only, 8-frame.....	.80	.65	3.10	6.00	85 lbs.
Hives, with tin rabbets only, 10-frame.....	.55	.45	2.00	3.90	47 lbs.
-Excelsior covers, complete for 8-frame hives.....	.60	.50	2.25	4.40	55 lbs.
-Excelsior covers, complete for 10-frame hives.....	.60	.50	2.40	4.50	47 lbs.
-Double air-spaced covers, 8-frame hives.....	.65	.55	2.65	5.10	55 lbs.
-Double air-spaced covers, 10-frame hives.....	.60	.55	2.60	5.00	47 lbs.
-Metal-roofed double covers, 8-frame hives, without super cover.....	.65	.60	2.90	5.40	55 lbs.
-Metal-roofed double covers, 10-frame hives, without super cover.....	.75	.60	2.75	5.40	58 lbs.
-Colorado Telescope covers, 8-frame hives, same as E with addition of 2 side cleats and super covers.....	.80	.65	3.00	5.80	64 lbs.
-Colorado Telescope covers, 10-frame hives.....	.20	.90	1.65		
Super Covers, 8 or 10-frame.....	.45	.30	1.40	2.70	50 lbs.
and B bottoms, complete, 8-frame hives.....	.50	.35	1.60	3.10	54 lbs.
and B bottoms, complete, 10-frame hives.....					



DIVISION BOARDS.

Plain Division Boards, nailed.
Each, 12c; 5 for 50c; 10 for 95c.

Plain Division Boards, K. D., not nailed. 10 for 75c.



Sawed Wood Separators, slotted, 1 1/2 x 4 1/2 in., 100 for \$1.25; 500 for \$6.00.



P-Fences or Cleated Separators for 4 1/4 plain section, in plain section holders. 100 for \$2.35.

Fences or Cleated Separators, used with 4 1/4 in sections in slotted section holders. 100 for \$5.

Fences or Cleated Separators, used in Danz. super, with 4x5x1 1/2 plain sections. 100 for \$5.

SECTION HOLDERS.



Section Holder Slats, 1/4 in. thick, 1 1/2 x 1 1/2 in. wide, 10 for 15c; 100 for \$1.15; 500 for \$5.50.

Section Holder Slats, 3/8 in. thick, 1 1/2 x 1 1/2 in. wide, 10 for 20c; 100 for \$1.30; 500 for \$6.00.

Section Holders, slotted, 1 1/2 x 1 1/2 in. wide, 10 for 25c; 100 for \$2.30; 500 for \$11.25.

Danzonbaker Section Holders, 10 for 30c; 100 for \$2.70; 500 for \$12.50.

Wedges for Hoffman Frames, 100 for 40c.

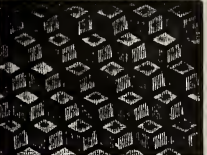


QUEEN BEES.

We can furnish Queen Bees from May 15th until September 15th. Imported Italian Tested Queen from \$3.00 to \$5.00 each.

Home Bred Italian Tested Queen, \$2.75 each.
Home Bred Italian Untested Queen, \$1.65 each.
Southern Bred Italian Tested Queen, \$1.75 each.
Southern Bred Italian Untested Queen, \$1.25 each.

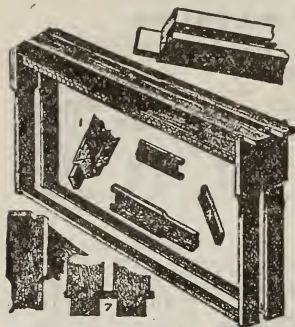
WEED PROCESS COMB FOUNDATION.



QUANTITY	Medium Brood.	Thin.	Extra Thin.
	5 1/2 to 6 sq. feet per lb.	10 to 11 sq. feet per lb.	12 to 13 sq. feet per lb.
1, 2, 5 lb. boxes, per lb.....	62c	69c	72c
10 lb. boxes, per lb.....	58c	65c	68c
25 lb. boxes, per lb.....	56c	63c	66c

Write for prices on large quantities.

Bee Supply Department—Continued
Brood and Honey Extracting Frames



HOFFMAN FRAMES.

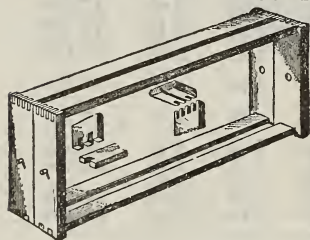
Furnished Staple End Spacing Unless Ordered Otherwise, 10 for 40c; 100 for \$3.60.

This is a fixed frame that is now used universally in the United States, and has become very popular. The ease with which it is manipulated is very satisfactory. The end bars are enlarged toward the top. They are 3/8-in. thick; 1-in. wide at the narrowest part and 1 1/8-in. at the widest. This is the style in our Dovetailed Hives, unless ordered otherwise. The peculiar merit of this frame is that it can be handled in lots of two, three or four, all at one time, and the same can be returned to the hive at one operation.

END SPACING HOFFMAN FRAMES.

rowest part and 1 1/8-in. at the widest. This is the style in our Dovetailed Hives, unless ordered otherwise. The peculiar merit of this frame is that it can be handled in lots of two, three or four, all at one time, and the same can be returned to the hive at one operation.

DANZENBAKER CLOSED-END FRAMES.



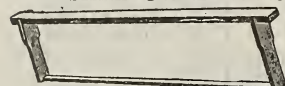
Ten for 35c; 100 for \$3.40.

This we consider the best of any of the closed-end type of frames ever sold. As it is supported by pivots in each end of the end-bars it is reversible. A comb put in a hive upside down for a day or two during the honey flow will have the space between the bottom bar (now at the top) and the comb entirely closed up. This secures solid cards of combs without any pop-holes, or space, between the frame proper and the comb itself.

DANZENBAKER CLOSED-END FRAMES.

will have the space between the bottom bar (now at the top) and the comb entirely closed up. This secures solid cards of combs without any pop-holes, or space, between the frame proper and the comb itself.

SHALLOW EXTRACTING FRAMES.



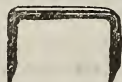
The top-bar is 7/8-inch wide and 3/8-inch thick with single groove; no comb-guide.

SHALLOW EXTRACTING FRAME. Bottom bar is 3/4 wide and 1/4 thick; the end bars are Hoffman self-spacing style, 3/8 thick by 5/8 long, end-spaced with staple same as full-depth Hoffman frames. 10 for 35c; 100 for \$2.90.

Tin and Wire Parts, Hammers and Paint

- T Tins for 8-frame hive supers, \$1.20 per 100.
- T Tins for 10-frame hive supers, \$1.40 per 100.
- Flat Tins for section holder rest, 8-frame, 60c per 100; for 10-frame, 75c per 100.
- Tin Rabbets for frame rests, 8-frame hives, \$1.20 per 100; 10-frame hives, \$1.40 per 100.

- Bent Staples for T tins, per lb., 40c.
- End Spacing Staples, per lb., 20c.



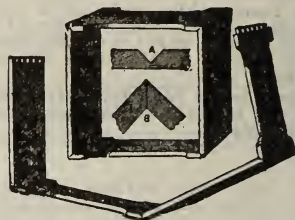
Hive Staples, 1 1/2 in. wide, are used to fasten the bottom, roof or supers to hive body and are readily removed with screw driver or chisel and used again. Per lb., 20c.

Wire, Bright Tinned, No. 30, for frames. For lb. spool, 30c; 1/2 lb. spool, 20c.

Super Flat Springs, to hold the section holders tight together. Price per 100, 75c; per 1,000, \$6.00.

Basswood One Piece Polished Sections

Made in two styles: Open top and bottom, and plain or no bee-way. Average weight of 1,000 sections is seventy pounds.



FIRST QUALITY BASSWOOD SECTIONS

—No. 1.

These are to be perfect white sections, all of those with weather stains or black spots on them being culled out. Indeed, they are "snow white." If you intend to market your honey in the large cities, it will pay you to use the No. 1 white sections.

OPEN TOP—FIG 4. POPULAR STYLE.



PLAIN OR NO BEE-WAY STYLE.

Unquestionably our sections this year are second to none. We will be very pleased to mail samples on application.

SECOND QUALITY SECTIONS—No. 2.

Second quality sections are those that we do not like to put in the first quality. Understand, they are perfect sections as far as workmanship is concerned, but they have dark streaks or spots on them; or, in other words, they are what are left after the first qualities have been selected out. If you are producing honey for your own use, these will answer all the purposes of a first quality section.

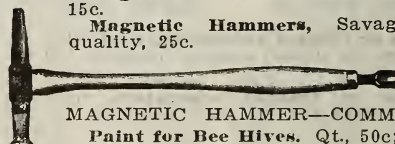
Several of our very successful apiarists in Colorado are using these sections.

Price List of Sections.

Regular size, 4 1/4 x 4 1/4 x 1 3/8.	No. 1.	No. 2.
Per 100	\$0.90	\$0.85
Per 250	1.85	1.70
Per 500	3.10	2.90
Per 1,000	5.80	5.30
Per 5,000, at 1,000	5.40	4.90

Plain sections, 4 1/4 x 4 1/4 x 1 1/2, No. 1 only 25c less per 1,000
 Plain sections, 4x5x1 3/8, No. 1 only 25c less per 1,000
 [Less than 1,000 lots same prices as regular size.]
 Ask for special prices on large quantities.

- Magnetic Hammers, common. Price, 15c.
- Magnetic Hammers, Savage, best quality, 25c.



MAGNETIC HAMMER—COMMON.

- Paint for Bee Hives. Qt., 50c; 1/2 gal., 80c; gal., \$1.50.
- Paint Brushes, 3-inch, good article. Price, 45c.

COATED WIRE NAILS FOR HIVES, ETC.

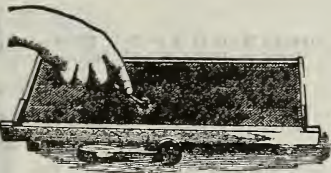
Prices subject to market changes.

Size.	Price Per lb.	Per 10 lbs.
1-in., very fine and slim	\$0.20	\$1.50
2d, regular, fine, for nailing frames . . . . .	.15	1.25
3d, 1 1/2 in. long, for nailing cases . . . . .	.10	.85
4d, 1 3/4 in. long . . . . .	.08	.75
5d, 1 1/2 in. long . . . . .	.08	.75
6d, 1 3/4 in. long . . . . .	.08	.75
7d, 2 1/4 in. long, for nailing hives . . . . .	.08	.75

Bee Supply Department—Continued

SPUR WHEEL WIRE IMBEDDER.

This imbedder has metal wheel with teeth so arranged that by running along the wire the wire is pressed into the foundation. Price, 25c.



DAISY FOUNDATION ROLLER.

Is also illustrated in above cut. Used to press the foundation to the frame. Price, 15c.

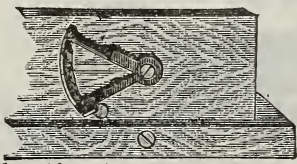


HIVE SCRAPERS.

Each, 25c.

VAN DEUSEN HIVE CLAMP.

These are very convenient for fastening loose bottoms when you want to move hives. They may also be used to hold the cover on, or two bodies together. Price, 35c



for 10 pairs, including two screws with each clamp.

NICKELED-STEEL HIVE-TOOL.



A new spring-steel nickel-plated hive-tool, which is both a scraper and a pry. The end which is turned down at right angles, or the hoe-end, fits nicely up into the palm of the hand when tool is used as a pry or a scraper. Price, 40c.

Foundation Fasteners and Section Presses

PARKER'S FOUNDATION FASTENER.

Fasten machine to table with screws. Dampen the under side of point of lever with honey or water to prevent its sticking to the foundation. Place section in position with strip of foundation just under the edge of

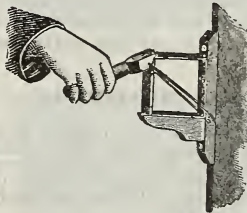


lever; press lever down on foundation by lifting handle, turn foundation up against end of lever and slide lever off of foundation by lifting on handle and drawing it backward, which fastens the foundation to section. Price, 35c.

"HIGGINSVILLE" SECTION PRESS.

This machine is a marvel in its way for a low priced Section Press.

All you have to do is to screw it fast to a bench or some upright and it is ready for using. Price, 50c each.



"HIGGINSVILLE" SECTION PRESS.

DAISY FOUNDATION FASTENER.

This is probably the best machine for its price for putting starters into sections. It is easily operated and with a little practice a girl or boy will put starters in from 400 to 500 sections per hour. Complete directions are sent with each machine. Price, with lamp, \$1.25; without lamp, \$1.00.



DAISY FOUNDATION FASTENER.

RAUCHFUSS COMBINED SECTION PRESS AND FOUNDATION FASTENER.

Simplicity, efficiency, accuracy and durability are its chief characteristics, and is guaranteed to give satisfaction. Fitted for 4 1/4 x 1 1/4 sections, with lamp all ready to fasten to table or bench. Price, complete with lamp, \$3.00.

ROOT SECTION PRESS.

Price, \$1.50.

ROOT FOUNDATION FASTENER.

Complete. Price, 50c.

VAN DEUSEN WAX TUBE FASTENER.



It is simply a tin tube about half an inch in diameter, six inches long, tapering and at the apex a small hole. On one side, near the handle, is pricked another small hole, which may be opened or closed with the thumb. When the tube is stood up in a cup of hot wax the air will escape from the upper hole and the wax flow in at the other small hole at the bottom. The thumb is closed over the upper one, the instrument is drawn out of the wax, and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. Price, 25c each.

CARLIN'S FOUNDATION CUTTER.

These are very convenient for cutting a great number of pieces, one sheet at a time. The wheel should be kept hot by occasionally immersing in hot water.



Price, tin wheel, 15c; steel wheel, 25c.

Bee Supply Department—Continued

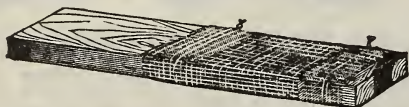
CAGES FOR QUEENS.



BENTON CAGE.

Benton Cage. Price, complete, with candy, 8c each; 10 for 60c. Price, without candy, 5c each; 10 for 45c.

MILLER'S QUEEN CATCHER AND INTRODUCING CAGE.



MILLER'S QUEEN CATCHER.

Any one who is afraid to catch the queen by the wings can slip this cage right over her, and she will crawl up, and then the plug can be inserted.

It can be used advantageously not only for introducing laying queens, but even virgin queens. Being only 1/4-inch thick it can be slipped down between the combs or slid in at the entrance. Price, 10c each; 10 for 80c.

WEST QUEEN-CELL PROTECTOR.



These are to prevent bees from gnawing into and tearing down cells given them at certain times of the year. Price, 5c each; 10 for 40c.

Spiral Cage to hold the virgin queens after she hatches, till she can be disposed of; each, 10c; 10 for 70c.

PERFORATED ZINC QUEEN EXCLUDERS OR HONEY BOARDS.

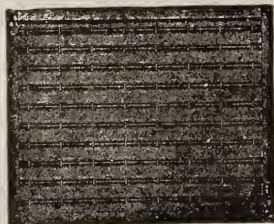
These are used to exclude the queen from the upper story. Our zinc is perforated with round corners, size, 17-100 of an inch, the best size and style.

	Each	Per 10
Zinc, size 12x19 1/2, for 8-frame hives.	\$0.20	\$1.70
Zinc, size 14x19 1/2, for 10-frame hives.	.20	1.90
Wood bound zinc honey boards, nailed, for 8-frame hives.	.25	2.40
Wood bound zinc honey boards, nailed, for 10-frame hives.	.28	2.60

WOOD AND WIRE HONEY-BOARD.

This is made just like the wood-bound zinc board, except that the wire strips are substituted for the zinc.

Eight-frame wood and wire honey-board, 13 1/2 x 20; each, 35c; per 10, \$3.10.



WOOD AND WIRE HONEY-BOARD.

Ten-frame wood and wire honey-board, 16x20, each, 40c; per 10, \$3.65.

Bee Smokers

DIRECT-DRAFT PERFECT BINGHAM BEE SMOKER.

The direct draft assures constant smoke. They are well made. Have wide shields and wire handles to cone.

Order by Name	Size of Barrel	Price Each
Conqueror.	...3 -in.	\$0.80
Doctor.	...3 1/4 -in.	1.00
Smoke Engine.	4 -in.	1.25



Direct-Draft Perfect BINGHAM Bee Smoker

PATENTED 1876, 1883 and 1893

ROOT SMOKER.

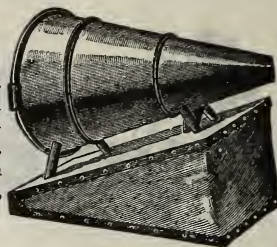


Guaranteed to burn any fuel, including wood, corn cobs, peat, old rags, etc.

Standard. 3 1/4 in. diameter. Price, 85c.
Jumbo. 4 inches diameter. Price, \$1.25.

CLARK'S SMOKER.

This is the most commonly used smoker on the market. Is cold blast. Very satisfactory in a small apiary. Price, 55c.



HIGGINSVILLE SMOKER.



Similar to the Bingham, it has a hot blast, with a 3 1/4-inch fire box. The nozzle throws back to admit of filling or cleaning. We believe it as good as any smoker made and a truly high class article. Will outlast many higher priced ones. Price, 75c.

DANZENBAKER TWENTIETH-CENTURY SMOKER.

This is a hot and cold blast smoker combined, having a vertical grate instead of one located in the bottom of the cup, as in other smokers. Like the Root smoker, it has no valve to get out of order. Price, \$1.00.



BEE-HATS. Flexible rim, fit any head. Price, 30c.

FREE BARTELDES FARM GUIDE BARTELDES COOK BOOK

With orders for seeds—see premium list.

Bee Supply Department—Continued

PORTER'S BEE ESCAPES.



This escape is far superior to all others.

Bee escapes greatly facilitate the removing of honey from hives and supers. The

escape is fastened to a board, after making a suitable hole in same. One escape to a board is sufficient. Complete directions for using the escape are sent with each one. Price, 20c each; \$2.25 per dozen postpaid. Escapes mounted with rims, for 8 or 10-frame hives, complete, 40c; 4 for \$1.50.

RUBBER GLOVES.



They are useful in handling very cross bees, and are a perfect protection for the hands. In ordering be sure to give the number of the size you want, and remember that in rubber you need two sizes larger than you wear in kid.

Ladies' Gauntlets, sizes 6, 7, 8; per pair, \$1.65. Gent's Gauntlets, sizes 10, 11, 12; per pair, \$1.75; sizes 13, 14, 15, per pair, \$2.10.

CANVAS GLOVES, 50c per pair.

We have these in two sizes only; large for men and small for ladies. You cannot use a tight-fitting glove while working with bees in warm weather.

COGSHALL'S BEE

BRUSH (see cut). Price, 15c.



COGSHALL'S BEE BRUSH.

GERMAN BEE BRUSH.

Made of genuine horse-hair bristles, either black or white. Black, 25c; white, 30c.



BINGHAM HONEY KNIFE. Price, 75c.



NOVICE HONEY KNIFE. Price, 80c.

THE DIXIE BEE BRUSH.



A double brush with soft and pliable fibres in a strong wood handle, long enough to reach across an ordinary Langstroth frame. Price, 15c.

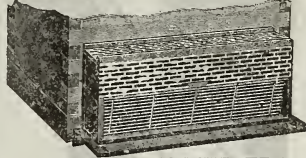
PORTER'S ESCAPE FOR BEE HOUSES.

Price, 25c each; \$2.75 per dozen, postpaid.



WIRE ALLEY TRAP.

This is just like the old style except that it has the wire entrance piece. Furnished in both eight and ten-frame widths. Price, 50c each.

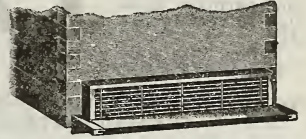


WIRE ALLEY TRAP.

BEE ENTRANCE GUARDS.

Wire Entrance-guard. Made with wood top and ends, with wire front, 20c each; 10 for \$1.80.

Zinc Entrance-guard. Made of best zinc, 15c each; 10 for \$1.20.



WIRE ENTRANCE—GUARD.

ALLEY'S COMBINED DRONE AND QUEEN TRAP.

Directions for use on each trap; price, 50c each



SIMPLICITY BEE FEEDER. Price, 10c each; per 10, 95c.

DIVISION BOARD FEEDER.

Has the same outside dimensions as an ordinary division board or brood frame, and can be used in the brood chamber the same way. To feed, all that is necessary is to push back the opening on the top bar. Price, nailed, 35c each; in flat, 25c.



BEE VEILS.



GLOBE VEIL.

Globe Bee Veil. The veil weighs only 5 ounces. Price, \$1, postpaid.

Bee Veil No. 1. Cotton tulle, with silk tulle face, 60c each, postpaid.

No. 2. Cotton tulle throughout; 50c each, postpaid.

ALEXANDER BEE-VEIL.

This is one of the best and strongest bee-veils that we sell. The portion around the face and head consists of a wire cloth made especially to order for this purpose, with eight meshes to the inch, and offers very little obstruction to the eye. The top consists of muslin gathered at the center and the bottom is of the same material made in the form of a skirt that slips loosely around the shoulders. Price, 75c; postpaid,



ALEXANDER VEIL

Bee Supply Department—Continued

MANUM'S SWARM CATCHER.

Without a doubt this article is the best of its kind on the market.

Its great feature is that it will stand alone and hold the basket where the bees are flying the thickest, by placing the legs at angles with the main bar (see cut).

Swarms can be successfully handled 20 feet in the air.

Price, with pole, complete, \$1.50.
Price, without pole, \$1.10.



No. 5B. NOVICE TWO-FRAME (NON-REVERSIBLE) EXTRACTOR.

For Langstroth or Hoffman frames standing on end, or any other frame not over 9 1/2 in. deep or 18 1/4 long, top-bar 20 in. (wt. 45 lbs.).

It is intended for the use of those who have only a small number of colonies, and who desire a good, well-built, serviceable machine at a moderate cost. While not reversible many think the combs can be handled almost as quickly. Price, \$11.50.



NOVICE FOUR-FRAME (NON-REVERSIBLE) EXTRACTOR.

No. 54B—Four-frame Novice for Langstroth or regular Hoffman frames, comb-pockets 9% in. wide; can 20 in. diameter; weight, 80 lbs., \$16.25.

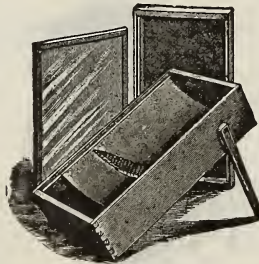
The machine has ball-bearings, top and bottom, and our latest style of gear with slip-gear lever.

DOOLITTLE WAX EXTRACTOR.

One of the Most Paying Things, Considering First Cost, is a Good Solar Wax Extractor.

There is not "millions in it," but there is many a dollar's worth of wax that can be saved in a season, even in a small apiary, by having a solar wax extractor setting handy where you can drop in little pieces of comb as they accumulate, and you have no idea how much will accumulate, until some day you look into the wax extractor, and behold! there is a beautiful cake of clear, transparent wax in the extractor pan. "A dollar saved is a dollar earned," and a Solar Wax Extractor will earn this dollar for you.

Doolittle Solar Extractor, weighs 30 lbs., \$4.75.



DOOLITTLE WAX EXTRACTOR.

THE FAMILY SCALE.

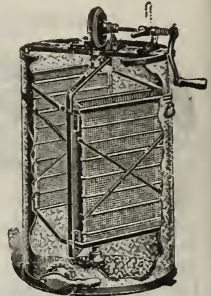
This is a beautifully finished, accurate instrument for weighing honey or anything else; and it will weigh as close as one ounce without any trouble. Price, \$1.50.

BEESWAX. We want all beeswax we can get, and will pay the highest market prices in cash. If you or your neighbors have any for sale, let us know and we will buy it. Wax in medium sized cakes preferred,

No. 15. COWAN RAPID REVERSIBLE EXTRACTOR.

This for many years has been one of our leaders. While it is not automatic in reversing, yet the combs can be turned the other side to by putting one hand down into the can of the machine, catching one basket and then the other, drawing them to the other side while the reel revolves slowly.

Holds two frames; weighs 70 lbs. Price, \$14.75.



2-FRAME REVERSIBLE COWAN.

THE ROOT AUTOMATIC REVERSIBLE EXTRACTOR.

This we consider by all odds to be our best machine. It has all the latest attachments, and is capable of heavy work. The automatic reversing feature has stood the test of hard usage for a number of years in some of the largest apiaries in the world. It is simple and positive in its action, the entire mechanism being placed on top of the reel and out of the honey.



ROOT AUTOMATIC EXTRACTOR.

No. 25B—Four-frame Root Automatic. 29 ins. in diameter (weight 180 lbs.), \$32.00.

GASOLINE ENGINE FOR DRIVING HONEY EXTRACTOR—"JACK JR."

Where a large amount of extracting is to be done, and especially if help is high-priced, we strongly advise the use of a gasoline engine for running the extractor. One horse-power engine, floor space 46x29 inches, capacity of tank, 1 gallon; weight, 440 lbs. Price, \$65.00.

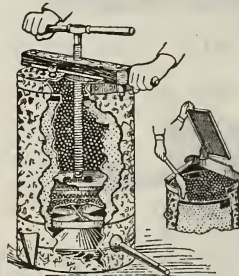
DADANT'S UNCAPPING CAN.

This is Indispensable to the Apiarist Who Has Much Honey to Extract.

The uncapping is done over it and the cappings fall on the screen below and are drained. It not only saves a great deal of honey, but also the white wax cappings, and it keeps things neat and clean. This machine is also invaluable for making Sugar Syrup by the percolator plan for feeding. Spread over the wire cloth a thickness of muslin; over this distribute evenly a layer of cotton batting about an inch thick, and over the whole another thickness of muslin. Now pour in sugar and water in equal proportions by measure, and the next morning you can draw off syrup from the lower can just right for feeding. Weighs 60 lbs. Price, \$9.50.



DADANT'S UNCAPPING CAN.



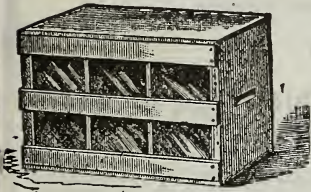
GERMAN STEAM WAX PRESS.

ROOT GERMAN STEAM WAX PRESS AND UNCAPPING CAN.

Weighs 75 lbs. Price, \$13.50.

Bee Supply Department—Continued

CARTONS FOR COMB HONEY.



DOUBLE TIER SHIPPING CASE.

We sell two forms of cartons—one known as the folding, in which the section is completely inclosed; the other is the Danzenbaker with open sides. These latter are cheaper, and much handier to put the sections in, and can be used in ordinary shipping-cases, while the folding carton requires a special case. To hold the Danzenbaker in place it is advisable to slip a rubber band over it. These we furnish when ordered. It necessarily has no printing at the sides, but has on all the other panels.



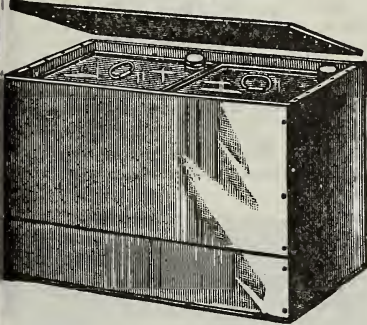
Both styles of cartons are furnished for our regular sizes of sections— $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ and $1\frac{1}{2}$; also $4 \times 5 \times 1\frac{1}{2}$. Other sizes are furnished in large quantity on special order.

We would advise any honey-producer who sells any honey locally to purchase a quantity of the folding cartons. They are very handy for retailing, because the customer can take the honey home without danger; and moreover they tend to whet his appetite by a recital of the merits of honey as a food.

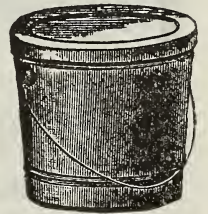
PRICE LIST OF CARTONS.

Danz. cartons, plain, no printing, 55c per 100; 1,000, \$5.40. Weight of 100, $5\frac{1}{2}$ lbs.
 500, \$2.40; 1,000, \$4.40. Weight of 100, 4 lbs.
 Danz. cartons, printed two colors, without name and address, 70c per 100; 500, \$3.20; 1,000, \$5.90.
 Folding cartons, plain; 100, 65c; 500, \$2.90; 1,000, \$5.40.
 Folding cartons, printed two colors, no name or address, 100, 80c; 500, \$3.70; 1,000, \$6.90.
 State for what size sections you want them, as they are made for sections $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ and $4 \times 5 \times 1\frac{1}{2}$.

SQUARE HONEY CANS.



Holds 60 lbs.—5 gallons, with screw caps.
 1 pair boxed, complete.....\$0.90
 10 pair boxed, complete..... 8.50
 Each, not boxed..... .35
 Per 10, not boxed..... 3.00



Prices on cans and pails fluctuate. When wanting quantity ask for prices.

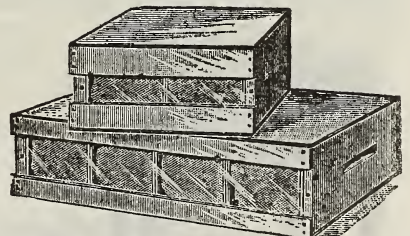
COMB BUCKETS. For five L frames, \$1.35.

ROUND TAPERING HONEY PAILS.

Can be shipped and stored nested.
 No. 3. Holds 4 lbs. honey; per doz., 80c; per 100, \$5.00.
 No. 5. Holds 7 lbs. honey; per doz., \$1.00; per 100, \$7.00.
 No. 10. Holds 14 lbs. honey; per doz., \$1.50; per 100, \$10.00.
 1 qt. Friction Top Tin Pails, per doz., 90c; per 100, \$5.25.
 2 qt. Friction Top Tin Pails, per doz., \$1.25; per 100, \$8.00.
 1 gal. Friction Top Tin Pails, per doz., \$1.65; per 100, \$11.00.

SHIPPING CASES FOR COMB HONEY.

Comb honey put up in a nice, clean, attractive crate will bring more than when packed in an unattractive shape. Most of our crates are made of snow white basswood, except the bottoms and back, which are not visible when set on a counter. They are simply beautiful to look at, and when filled with nice comb honey they are doubly beautiful.



SINGLE TIER SHIPPING CASE.

The 24-lb. double-tier case is almost universally used in Colorado, as it is the one which finds most favor with western dealers in honey. It was adopted as the standard package by the members of the Colorado State Bee Keepers' Association several years ago.

It certainly is the most attractive package, as one-fourth of all the honey contained is exposed to view.

One sheet of paper should be placed in the bottom of the case, and the other over the top inside.

Price List of Shipping Cases with Glass, Nails and Paper, Complete. Original Crates are 50 cases each.

	Each	Per 10	Per 50	Per 100
24-lb. Double Tier, $2\frac{1}{2}$ in. glass.....	\$0.25	\$2.30	\$10.75	\$21.00
24-lb. Single Tier, $2\frac{1}{2}$ in. glass.....	.25	2.15	10.25	20.00
24-lb. Single Tier, wood side instead of glass....	.20	1.95	9.25	18.00
24-lb. Single Tier, $2\frac{1}{2}$ in. glass for Danzenbaker sections. .	.25	2.15	10.00	19.75
12-lb. Single Tier, 2 in. glass for Regular sections. .	.20	1.75	8.25	16.00

POULTRY DEPARTMENT

When Poultry Supplies are Wanted by Mail add Postage

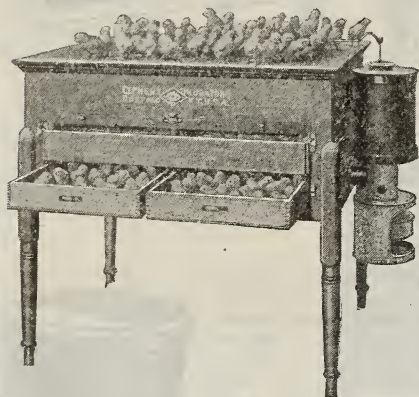
We are Authorized Agents for

GENUINE CYPHERS COMPANY INCUBATORS

Patented

Made in Three Styles—Eight Different Sizes

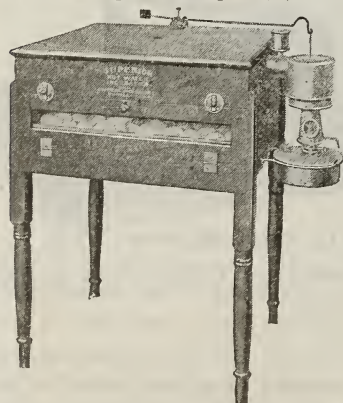
For the season of 1915 we offer our customers the Cyphers Incubator Company's complete line of incubators. These three styles of high-class, guaranteed hatching machines, running through eight different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company Incubator you take no chance.



390-400 EGG STANDARD CYPHERS
INCUBATOR.
Price, Complete in All Details, \$38.00.

Columbia Hot-Air Incubators

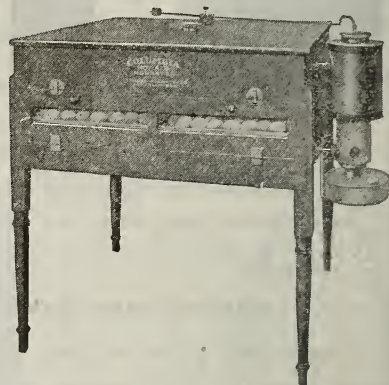
Are built to meet the wide-spread demand for large-capacity, lamp-heated machines that can be sold at surprisingly low prices and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless-bottom lamp bowls, best quality brass burners, zinc and steel Standard Cyphers toggle-joint thermostat and same regulating equipment as used on highest priced machines. Fume-proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principle. Roomy chick nursery under egg trays. Are made in two sizes: 130-140 eggs, price complete, \$15.00; 240-250 eggs, price complete, \$19.00. Fully guaranteed.



120-130 EGG SUPERIOR HOT-
WATER INCUBATOR.
Price, Complete in Every
Detail, \$14.00.

Standard Cyphers Incubators

These are machines that for fifteen years and more have been recognized as the "Standard hatchers of the world." Tens upon tens of thousands of them have been sold and are in successful use in every civilized country on the globe. They are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms, and by a larger number of foremost poultry breeders than all other makes combined. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climes, under widely different conditions, in the hands of all sorts of people. They are built to hatch and to last. With ordinary care they should last an ordinary lifetime. Every Standard Cyphers Incubator is guaranteed, by the manufacturers, to do first-class work in the hands of every purchaser who will give it a fair trial. Are built in four popular sizes and at prices as follows: 70 eggs, price complete, \$15.00; 140 eggs, price complete, \$22.00; 244 eggs, price complete, \$32.00; 390-400 eggs, price complete, \$38.00.



240-250 EGG COLUMBIA HOT-AIR
INCUBATOR.
Price, Complete in Every Detail,
\$19.00.

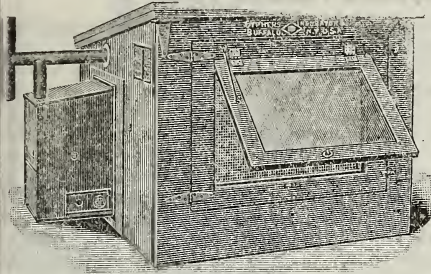
Superior Hot-Water Incubators

These machines are exactly what the name says. They are heated by hot water, instead of with hot air, and are "superior" in every detail. The water boiler and tank (tubular) are of heavy weight copper. Lamp has seamless bowl; burner is best on market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.) and has double walls, with air space insulation. Are equipped with Standard Cyphers zinc and steel toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries. Are built in two sizes: 60-65 eggs, price complete \$10; 120-130 eggs (see illustration), price complete, \$14.00. Fully guaranteed.

Write for Large Complete Catalogue of Cyphers Incubators and Brooders

CYPHERS COMPANY BROODERS AND HOVERS

Style A Outdoor Brooder



CYPHERS STYLE A OUTDOOR BROODER.

Fire-Proof—Insurable. Two-Apartment, Combination Outdoor Brooder and Colony Raising Coop. Self-Ventilating and Self-Regulating.

Dimensions: Floor space, 32x32 inches; height, 32 inches in front, 24 inches at rear. Capacity (normal) seventy-five newly hatched chicks; hover space for twice that number. Price, Style A Outdoor Brooder, \$13.50. Weight 135 lbs.

Style B Outdoor Brooder

The Style B Outdoor Brooder has all the favorable features found in the Style A, and in addition has a large exercising apartment, thus securing twice the floor space.

All Cyphers 1915 Brooders, Styles A, B and C, are self-regulating, self-venting and varmint-proof. They are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose. This double use of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night, and saves the buying of a coop for them. These outdoor brooders, on account of their fire-proof construction, can be used indoors equally well.

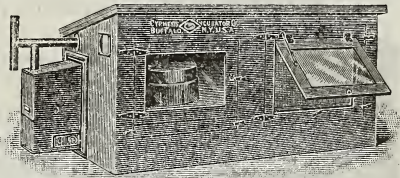
The Style B Brooder (also Style C) has the exercising apartment separated from the hover apartment by a partition. A small chick door in each end of this partition does away with four corners. Each door is covered with a slitted felt curtain, thus keeping drafts out of the hover apartment, while for night use a wooden door will close the opening.

The Standard Cyphers Brooders are not only fire-proofed and insurable, but are the most outdoor brooders thus far invented and placed on the market. They are equipped with the same type of high-grade thermostat as used on the Standard Cyphers Incubator—you can therefore depend upon an even, steady temperature in the hover, and a lively, thrifty, growing lot of chicks.

Remember, it is not a question of price—it is a question of raising the chicks. This brooder will do it where all others fail. A trial will prove our claim.

Dimensions: Floor space, 32x62 inches, 32 inches in front, 24 inches in rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks.

Price of Cyphers Style B Outdoor Brooder, complete with Standard Cyphers Regulator, Tested Brooder Thermometer, and bearing "Inspected Brooder" label, safely crated, \$18.00. Weight 205 lbs.



STYLE B OUTDOOR BROODER.

Style C Outdoor Brooder

This self-ventilating and self-regulating three-apartment outdoor colony brooder has all the good points of the two brooders hereinbefore described, and one more—the hover apartment is double walled with a dead-air space between the walls, and the hover apartment window is fitted with double glass with an air space between. This three-apartment brooder is double insulated, and so is doubly valuable during the winter months and in early spring. We recommend the use of this brooder for use in cold latitudes and very early in season for extra valuable chicks.

The Cyphers Style C Brooder is equipped with the Cyphers Fire-Proof Heater and Standard Adaptable Hover, and therefore is insurable, each brooder bearing the "Inspected Brooder" label of the Underwriters' Laboratories.

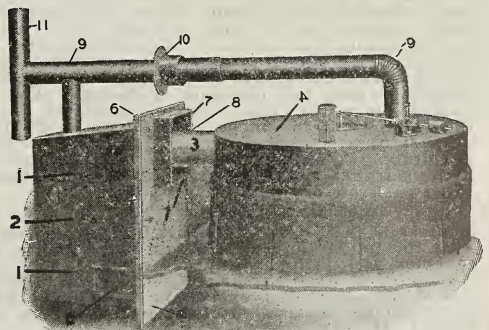
Dimensions: Floor space, 32x62 inches; height, 32 inches in front, 24 inches at rear. Capacity (normal) one hundred newly hatched chicks; can accommodate one hundred and fifty chicks. Shipped knock down at low freight rates.

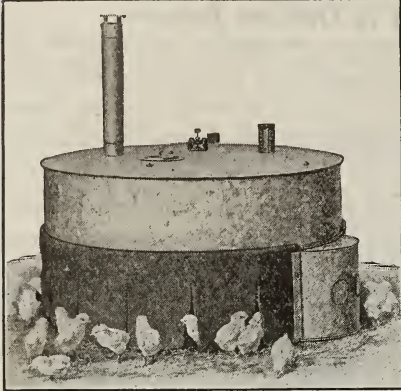
Price of Cyphers Style C Outdoor Brooder, \$20.00. Weight 220 lbs.

Cyphers Adaptable Hover

The Cyphers Adaptable Hover is self-ventilating and self-regulating. It supplies a continuous supply of fresh, pure warmed air under the hover, and at the same time maintains a steady, uniform heat. All the essentials of successful brooding of chicks are automatically provided. Thousands of poultry growers use this hover in raising big, strong flocks of chicks. It is "adaptable" to use in colony coops, in portable houses, in home-made brooder coops, such as goods boxes, piano boxes, and organ cases, as well as in large brooding houses. It is constructed entirely of non-combustible material, and bears the fire underwriters' Inspected Brooder label. Capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old.

Price of Cyphers Adaptable Hover, \$9.00. Weight 39 lbs.





Cyphers Portable Hover

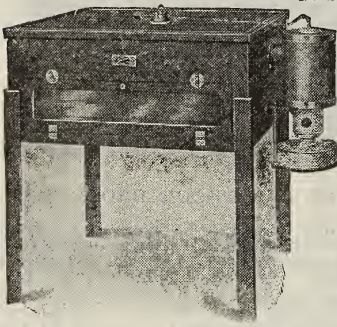
The Cyphers Portable Hover is the only self-regulating and self-ventilating Portable Brooding Hover thus far invented, and we guarantee it to be the best brooding device of the kind on the market. As it is equipped with the same high-grade thermostat as the Cyphers Incubators and the Cyphers Adaptable Hover, it maintains a steady and uniform heat. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases, underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover.

This Portable Hover, as its name indicates, can be picked up at any time, all complete, and moved about without hindering its operation. Very convenient for cleaning and moving. Rated capacity, seventy-five newly hatched chicks, or fifty chicks that are ten days to six weeks old.

Price of Cyphers Portable Hover, \$8.75.

Essex-Model "Middle-Price" Incubators

MISSION FINISH—LATEST STYLE MADE.



MIDDLE-PRICE INCUBATOR
Complete. No extras to buy.

This is a line of Middle-Price Incubators for those earnest poultry keepers who want a reliable hatcher, but not expensive. In the Middle-Price Incubators the heating and ventilating principle of the Standard Model Incubator is in a great part retained. The double cases are of pine with ample packing or insulating material between them; nicely finished in Mission Style and in every way are a dependable hatcher. Compare these prices with those of any other make of HIGH GRADE MACHINES that holds as many eggs, and you will find that these cost less by one-half. They are positively the greatest values offered in Incubators of these sizes.

Essex-Model "Middle-Price" Incubators

Prices and Sizes.

No. A.	Holds 70 eggs;	shipping weight 50 lbs.	Price....\$ 9.50
No. B.	Holds 120 eggs;	shipping weight 60 lbs.	Price.... 12.75
No. C.	Holds 200 eggs;	shipping weight 100 lbs.	Price.... 17.00

Call at our store and examine these machines. See how easily they work.

Essex-Model "New Homestead" Incubator

THE BEST OF LOW-PRICED MACHINES.

The NEW HOMESTEAD HATCHER. We are able to offer breeders an opportunity to secure a high class hot water Incubator at a price that during past years has been asked for cheaply constructed, made-to-sell machines. Constructed of first-class material with a handsome Rosewood finish, a heating equipment made wholly of copper and an egg capacity equal to much higher-priced machines, the NEW HOMESTEAD HATCHER has become at once the most popular hot water machine ever offered. Made on correct hatching principles that insure high hatching quality. Poultry keepers will take no chance in buying this wonderful little machine.

A special feature in this machine is the double glass in the top through which the eggs and chicks may be seen. The thermometer is also in full view.

One size only, 70 eggs, shipping weight 25 lbs. Price, \$7.50.

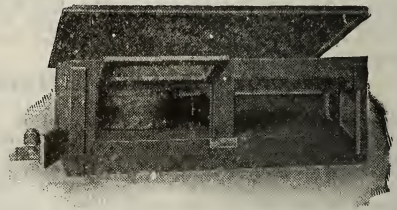
Essex-Model Colony Brooder—Styles A and B.

The Essex-Model Brooders are known wherever poultry is raised by reason of their splendid combination of light, heat, ventilation and floor space. In these Brooders the fresh outside air is first heated; then introduced and spread throughout the hover without creating a draft. The absence of oil fumes is secured by air tight heating parts, and in all of the Essex-Model Brooders the hover can be readily raised for cleaning purposes. The advantages named place the Essex Model Brooders in a class by themselves, as the most economical, most practical and highest quality Brooder made. The Essex-Model A and B Outdoor Colony Brooders and Roost Coops are similar in appearance and construction, the difference between the two Brooders being as follows:

Model A Brooder, price, \$11.50. Contains two apartments and is 28½ x 47½ inches in size. It has a supplementary cover or diaphragm that may be used for indoor purposes or outdoors in fine weather when the roof is raised, thereby affording superior ventilation. Shipping weight, 95 lbs.

Model B Brooder, price, \$14.25. Contains three apartments, two of them similar to the Model A and an additional exercising apartment separated by a wooden partition. This Brooder is 34 x 58 inches in size. It has a wire screen for the window of the nursery chamber. Shipping weight, 140 lbs.

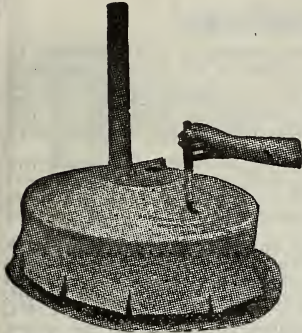
Both of these Brooders have a triple roof including the outer enameled iron one and are practically indestructible.



COLONY BROODER—STYLE B.

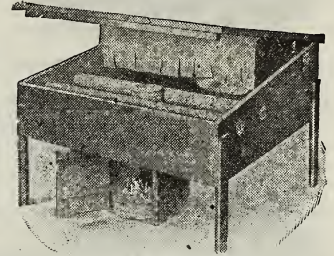
International Sanitary Hover

This hover can be picked up and carried around with ease and used anywhere. It gives equally good results in a hen house, barn, cow stall, piano or dry goods box. It is circular in shape, is made of metal throughout, and fire-proof. The hover sets on floor just as a mother hen does. The lamp can be lifted out through the top and the operator does not need to kneel in the dust. There is no possibility of gases and fumes from the lamp getting into the air breathed by the chicks. The thermometer can be lifted out, looked at and dropped back without moving the hover (see illustration). During the winter months this hover can be used for sprouting grain for green feed. It will hold 12 quarts of oats which, when sprouted, will yield in 8 days enough green food to feed 500 laying hens for 3 days. Price, \$8.50.



Essex-Model New Homestead Brooder.

This is a low-priced Brooder substantially constructed, and is considerably in advance of the kind usually sold at the price we ask for it. It can be used either indoor or outdoors. It is 21x34 inches and has a chick capacity nearly equal to brooders that are sold for double the money. It is equipped with our superior heavy galvanized iron lamp and chimney, metal heating parts, tested thermometer, and is complete in every way. Capacity, 50 chicks. Price, \$5.75. Shipping weight, 40 lbs.

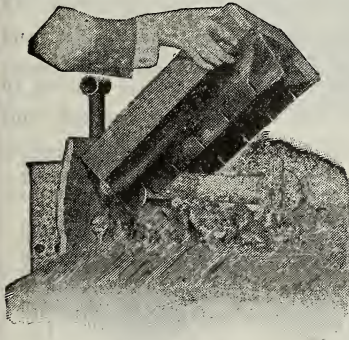


NEW HOMESTEAD BROODER.

Essex-Model Portable Hover

An especially attractive and practical brooding outfit for those who wish to build their own brooders or for attaching to a small colony house or coop, or for use in a brooder house. No other hover possesses as many practical advantages. It may be easily raised for cleaning purposes or to examine the chicks beneath it without detaching it from the brooder—one of our latest improvements not possessed by any other similar hover.

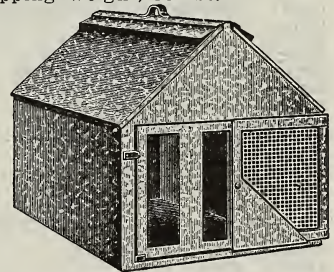
Price, complete, \$6.75. Shipping weight, 25 lbs.



PORTABLE HOVER.

Sanitary Brood Coop

It is made of galvanized iron and is collapsible. No bugs or insects of any kind can live in it. It has ventilated top and end. It has three doors, one wire screen, one slatted to allow the little chicks to pass in and out, and one storm door to close in case of rain. Size about 18 inches high, 18 inches wide and 24 inches long. It is hooked and grooved together and does not need any bolt to fasten together. Price, \$2.00.



SANITARY BROOD COOP.

Oake's Hydro-Safety Lamp.

This lamp has been on the market for several years; is well liked and in common use. The Oakes' Hydro-Safety Lamp is made for incubator and brooder use exclusively, and its construction in every part is such as to combine absolute safety with economy of oil, a constant even heat and a great convenience in use.

PRICES:

No. 1B.	Tin oil fount, galvanized iron chimney.....	\$1.00
No. 2B.	Tin oil fount, galvanized iron chimney.....	1.25
No. 1A.	Brass oil fount, blue steel chimney.....	1.25
No. 2A.	Brass oil fount, blue steel chimney.....	1.75
No. 3A.	Brass oil fount, blue steel chimney.....	2.25



OAKE'S HYDRO-SAFETY LAMP.

Incubator and Brooder Lamps and Parts.

Essex-Model, small size, for Nos. 0, 1, A and B Incubators. Price, without chimney.....	\$0.80
Essex-Model, large size, for Nos. 2, 3 and C Incubators. Price, without chimney.....	1.00
Essex-Model Brooder Lamp for Portable Hover and 1911 Brooders. Price, with chimney.....	1.25
Essex-Model Lamp, complete for Portable Hover and Model B Brooder. Price.....	1.00
Essex-Model Chimneys for all size Brooders. Price, each.....	.25
Cyphers Incubator lamp bowls for No. 0 and No. 1 incubators, 75c each; for No. 2 and No. 3 incubators, each.....	1.00
Barteldes' Incubator lamp bowls for No. 0, 35c; No. 1 incubators, 50c; for No. 2 and No. 3 incubators, each.....	.60
Extra lamp burners for No. 0, 25c; for Nos. 1 and 2, 35c; for No. 3.....	.50
Wicks for incubator or brooder lamps, 3 for.....	1.00

Poultry Department—Continued

Thoroughbred Poultry and Eggs for Hatching



BARRED PLYMOUTH ROCK.

We do not keep these fowls on hand; thus it is impossible to fill orders as promptly as we desire. Nearly all of our breeders are located in the country, therefore, when we receive your order it is necessary to write a letter and it is usually a day before the breeder receives it, and another day before he can deliver the birds to us. Thus, it can easily be seen that it takes three days before we can fill your order.

In very cold weather it is sometimes necessary to hold the birds for a day or so until the weather moderates, as it is dangerous to move valuable birds of the large comb breeds—such as Minorcas and Leghorns—in severe weather, on account of the danger of freezing their combs.

We are particularly careful about shipping birds. Our shipping coops are light, but very substantially made and have a slatted top, allowing plenty of air, and taking a cheaper express rate than the canvas coops. Provision is made for feed and water.

During the breeding season, or from February 1st to May 1st, we try to have on hand a display of good cockerels at our store, but outside of this period it is impossible to do this, as the birds which are kept confined are bound to become weakened and sickly in time. The price of these birds depends much on the merit of each particular specimen; therefore, it is difficult to give exact prices in the catalogue.

In writing for birds be sure to state whether you wish utility or show birds.

We are always glad to make quotations, so do not hesitate to inquire.

We advertise all kinds of eggs for hatching, but please remember that we do not guarantee them.

We secure our eggs from reliable and up-to-date breeders, and we have every reason to believe that they will run about 85% fertile, but on account of the amount of handling which they are bound to receive in our hands and in transit, we have found it necessary to withdraw any guarantee whatever. We regret very much that we find it necessary to do this, however, we have decided it to be best for all parties concerned.

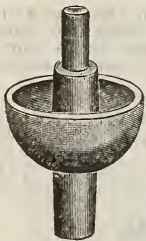
Turkeys and Ducks do not usually start laying in this locality much before March 15th, and as the first eggs are never the best, we think the first of April is plenty early.

Orders for one and two settings are packed in Anderson egg boxes. Each egg has a compartment, and is carefully protected by layers of corrugated paper. Larger lots are packed in baskets.

Eggs should go via express. We send a notice by mail the same day that the express shipment is made, advising customers of same. No goods sent C. O. D.

	Males.	Trio.	Doz.	Eggs Per 1 Setting	Eggs Per 2 Settings
Barred Plymouth Rocks.....	\$ 3.00 to \$12.00	\$ 6.00 to \$15.00	Values vary according to grades and merit of stock. Prices on application.	\$3.00	\$4.50
White Plymouth Rocks.....	4.00 to 12.00	6.00 to 15.00		3.00	4.50
White Wyandottes.....	4.00 to 10.00	6.00 to 12.00		3.00	4.50
Black Langshans.....	5.00 to 15.00	8.00 to 15.00		3.00	4.50
Light Brahmas.....	4.00 to 10.00	7.00 to 12.00		3.00	4.50
Rhode Island Reds.....	3.00 to 10.00	6.00 to 12.00		3.00	4.50
Brown Leghorns, Single Comb..	2.50 to 6.00	6.00 to 10.00		2.50	4.00
Brown Leghorns, Rose Comb..	3.50 to 8.00	7.00 to 10.00		2.50	4.00
White Leghorns, Single Comb..	2.50 to 6.00	6.00 to 10.00		2.50	4.00
White Leghorns, Rose Comb..	3.50 to 8.00	7.00 to 10.00		2.50	4.00
Buff Leghorns, Single Comb..	4.00 to 10.00	8.00 to 12.00		3.00	4.50
Black Leghorns, Single Comb..	5.00 to 10.00	8.00 to 12.00		3.00	4.50
Buff Orpingtons.....	4.00 to 10.00	8.00 to 12.00		3.00	4.50
White Orpingtons.....	5.00 to 10.00	12.00 to 25.00		4.00	6.50
Black Minorcas, Single Comb..	4.00 to 8.00	8.00 to 12.00		3.00	4.50
Black Minorcas, Rose Comb..	5.00 to 10.00	8.00 to 12.00		3.00	4.50
Houdans.....	4.00 to 10.00	8.00 to 12.00		3.00	4.50
Guineas, Pearl.....	2.00 to 3.00	4.00 to 6.00		2.00	3.25
Turkeys, Bronze.....	7.00 to 12.00	15.00 to 20.00		3.00	4.50
Turkeys, White Holland.....	7.00 to 12.00	15.00 to 20.00		3.50	6.00
Ducks, White Pekin.....	2.50 to 5.00	8.00 to 12.00		2.50	4.25
Ducks, Indian Runner.....	3.00 to 5.00	8.00 to 12.00		2.50	4.25
Geese, Toulouse.....	5.00 to 7.00	15.00 to 20.00		50c each	
Pigeons, Homer, per pair.....	1.50 to 2.00				

IRON ROOST INSULATORS.



IRON ROOST INSULATOR

The use of a pair of these Iron Roost Insulators will prevent fowls from being troubled at night by mites and lice, as they cannot crawl from the walls or supports onto the perch on account of the oil, or liquid lice killer, contained in the cups. They connect the supports and the roosts. Price, pair, 25c.

Philadelphia Caponizing Sets.

Complete set, in plain pasteboard box, postpaid, \$2.50.

Complete set, velvet case, postpaid, \$2.75.

Farmer's Caponizing Set in velvet case, postpaid, \$3.00.

CAPONIZING INSTRUMENTS.



They are made by expert surgical instrument manufacturers and are first-class in every respect. With each set of instruments we send a booklet containing full directions for using the instruments and caring

for the capons. Book alone is 10c.

WOOD'S REVOLVING EGG CABINETS.

Eggs intended for hatching should be turned daily. Wood's Revolving Egg Cabinets are a practical device for doing this work and meet a widespread need among poultrymen who save eggs for hatching.

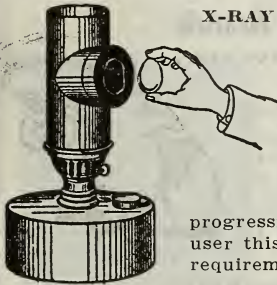
PRICES.

150-egg size, weight 30 lbs.....\$4.25
288-egg size, weight 55 lbs..... 8.00

Poultry Department—Continued

Egg Testers

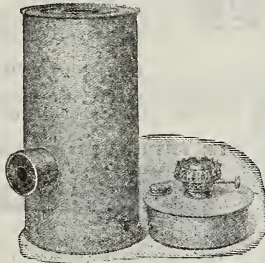
X-RAY EGG TESTER.



X-RAY EGG TESTER.

CYPHERS PRACTICAL EGG TESTER.

This standard tester embodies the best ideas to date. It is 15 inches high and 7½ inches in diameter. Is made of galvanized iron and equipped with a suitable reflector. Any ordinary glass chimney such as is used on a house lamp, will fit it. With proper care this tester will last a life time.



Complete, including lamp and reflector, \$1.60.

THE DAVIS RAPID EGG TESTER.



DAVIS RAPID EGG TESTER.

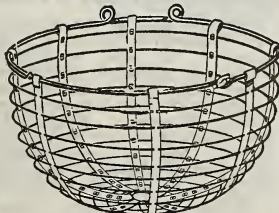
Consists of a hard wood, handsomely finished box, 6½x6x3 inches, lined with asbestos and covered with black felt cloth. It is operated by placing an ordinary light globe within the tester and attaching the cord on the tester to the socket. The eggs are placed within the beveled-edge slots on top of the tester and the light shows whether they are good or bad. Can be used in broad daylight with perfect results. Price, with 6-ft. extension cord, \$2.50.

ESSEX-MODEL "READ EASY" HYGROMETER.

It enables the operator to decide just how much moisture is in the machine when the temperature is at or near the incubating point. It is very simple and is arranged to read as easy as a thermometer. Price, each, \$1.25.

Wire Nests

These nests are strongly made from heavy Japanese steel wire, 1½-inch mesh. Will fasten to wall with screws or hooks. No place for lice or vermin of any kind to lodge; are easy to keep clean and are far superior to wooden boxes.



WIRE NEST.

Price, each, 20c; 3 for 50c.

This is made of solid body, tough, pliable and durable, Elaterite Cement, re-inforced with one layer of heavy imported India burlap, backed with highly compressed saturated wool felt. Top surface is mica. It is water, steam, acid and fire proof. No coal tar is used in its make-up. Put up in rolls 40 feet long and 32 inches wide, complete with nails and cement.

4X grade, medium, weighs about 55 lbs., price, \$3.75 per roll. 5X grade, heavy, weighs about 65 lbs., price, \$4.00 per roll.

INDIA RUBBER ROOFING.

Just the thing for that chicken house. Put up in rolls 40 feet long and 32 inches wide, enough to cover 100 square feet, allowing 2-inch lap. Complete with nails and cement.

1 ply, light, weighs about 35 lbs., price, \$1.70 per roll. 2 ply, medium, weighs about 45 lbs., price, \$2.00 per roll. 3 ply, heavy, weighs about 55 lbs., \$2.35 per roll.

HIGH GRADE TESTED THERMOMETERS.



Essex-Model Incubator Thermometer. An accurate, guaranteed thermometer. Glass tube is made to magnify the mercury. Price, each, 60c.

Essex Thermometer Wires. Made to hang thermometer in the egg chamber to save space. Price, each, 10c.

No. 5782. Certified Thermometer with scale also etched on the glass tube, with certificate, \$1.00.

No. 5774. Incubator Thermometer, round corners, tube set at an angle, 75c.

No. 5790. Brooder Thermometer with magnifying lens front, 75c.

No. 5794. Brooder Thermometer, flat, 35c.

No. 5792. Special Thermometer for Cypher's Brooders, 45c.

TYCOS HYGROMETER.



TYCOS HYGROMETER.

The use of an incubator hygrometer effectively lessens the percentage of chicks dying in the shell, due very largely to improper moisture conditions. The illustration shows the correct position of the instrument in use taking the place of one egg in the egg tray, thus showing the conditions actually surrounding the eggs. Price, \$1.50, by mail, \$1.65. Extra wicks for same, each, 10c; per doz., \$1.00, postpaid.

ESSEX-MODEL COMBINATION THERMOMETER AND HYGROMETER.

Saves space in the incubator by mounting the thermometer and the hygrometer on one stand. Price, each, \$1.75.

Porcelain Nest Eggs

The "Opal" brand are the best made. They are clean cut and uniform. Worth double the common ones. With these there is no danger of getting stale eggs mixed with the fresh ones, nor the hens acquiring the habit of egg eating. 3 for 10c; 6 for 15c; 12 for 30c. We can supply in gross lots at special prices.



Lime Nest Eggs

These nest eggs are the best imitation of hen eggs and are unbreakable. Each, 5c; per dozen, 35c.

Poultry Department—Continued

Poultry Markers

ROGERS' POULTRY PUNCH.



It is strongly made, handy to carry, hangs on your finger while using it, easy of operation, does not bruise the foot and cuts a clean, round hole. Your thumb being out of the way you can see what you are doing. You will appreciate this feature.

Plain white satin finish, 25c each.

THE "PHILADELPHIA."

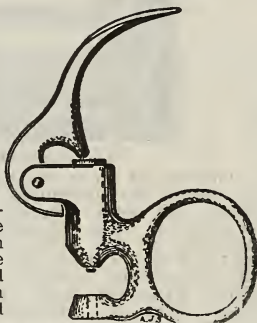
This marker is made in two sizes, one for chicks and for adult fowls. The size of the holes punched are shown by the black dots printed at one side of the marker. The size made for adult fowls is too large for proper use on chicks newly hatched. Price, 25c, postpaid.



The "Philadelphia."

THE "ACME."

The spring lever arrangement enables one to use this punch with perfect ease, holding the chick in one hand and working punch with other. It is light and very durable. Price, 25c, postpaid.

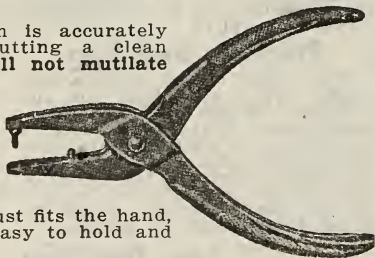


THE "ACME."

THE MODEL TOE MARKER.

This punch is accurately fitted for cutting a clean hole and will not mutilate the web as many other punches do. It is nickel plated and makes an attractive tool and is one which just fits the hand, making it easy to hold and operate.

Price, 50c, postpaid.



PETTEY'S POCKET POULTRY PUNCH.



This is a handy little pocket size punch, easy to use and is well made. It is easily worth the money. Price, 25c, postpaid.

Leg Brands

CLIMAX OR "STAY-ON" LEG BANDS.

These rings are made of spring brass and so bent that the tag acts as a clasp, holding them securely in place. Tags are aluminum. Mention size wanted when ordering.

Price, 12 for 20c; 25 for 35c; 50 for 60c; 100 for \$1.00, postpaid.



"STAY-ON."

PIGEON BANDS.



Made from aluminum tubing. Are put on safely when birds are young. Are very light.

Price, 12 for 20c; 25 for 40c; 50 for 75c; 100 for \$1.35, postpaid.

OPEN PIGEON BANDS.

Made from flat aluminum. Price, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c, postpaid.

THE IMPROVED CHAMPION LEG BANDS.



Made of pliable aluminum, which can be adjusted to fit any size leg. Three-inch size for all ordinary breeds; 4-inch size for extra large and turkeys. All neatly numbered.

Price, 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c, postpaid.



ROUND ALUMINUM WIRE BANDS.



ROUND ALUMINUM.

Made of wire aluminum, flattened where the number is placed. Sample free for the asking. The most satisfactory leg band on the market. Are used by a majority of the largest breeders in the West. Made in 4

sizes: No. 1, extra large; No. 2, large; No. 3, medium; No. 4, small.

Price, 12 for 20c; 25 for 40c; 50 for 75c; 100 for \$1.35, postpaid.

All bands are numbered unless otherwise ordered.

SMITH'S SEALED BANDS.

By the use of these positive identification of a bird banded by one of these bands is without question. They are made from flat aluminum with edges carefully rounded. Positively no duplicates are manufactured. These bands are affixed with a sealer tool. The use of these bands is the correct way to keep record of prize stock.

Price, 12 for 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50, postpaid.

Sealers for sealing bands, 50c each.



DOUBLE CLINCHED PIGEON BANDS.

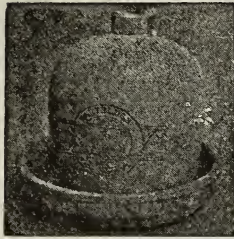
No. 1, small. 12 for 15c; 25 for 30c; 50 for 50c; 100 for 80c, postpaid.

No. 2, large. Same price as No. 1.

Poultry show secretaries and others buying Leg Bands in large quantities will do well to write us.

Poultry Department—Continued

Drinking Fountains



BARTELDES' TWO-PIECE EARTHEN DRINKING FOUNTAIN.

These stoneware drinking fountains keep the water cool and clean, and chicks from getting wet or drowned. Made with open bottom for convenience of cleaning, and inverted into a pan. Price, 2-qt. size, 35c; gal. size, 50c.

THE "COLORADO" FOUNTAIN.

One Piece.

Half gallon, each 25c; one gallon, each 35c. Special brooder size, holds about 1½ quarts, fits inside brooder, each 25c.



THE "SANITARY" FOUNTAIN.

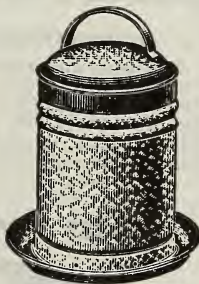


A square, galvanized fountain in two parts. A slight pull on the projecting part of the bottom removes it entirely, and, by using a small whisk broom, both parts are easily and thoroughly cleaned. It is filled instantly. It can be hung up out of the dirt on an ordinary nail or hook.

Price, 1 gallon size, 60c; 2 gallon size, 90c.

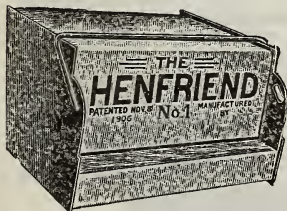
DELPHOS GALVANIZED FOUNTAIN.

To fill this fountain pull top off base and turn can upside down and fill, then push base on and invert. Price, 35c.



HENFRIEND DRINKING FOUNTAIN.

Can be used also as a feed box. Size No. 1, 60c; size No. 2, 50c; size No. 3, 35c.

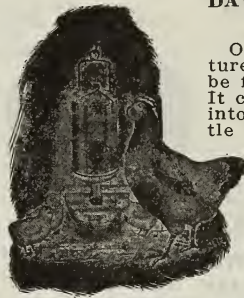


MOE'S TOP-FILL DRINKING FOUNTAINS.

One gallon\$1.35
Two gallon 1.85



DAVIS FOOD AND WATER FOUNTAIN.



One of the most handy fixtures for poultrymen. Can be filled with water or feed. It consists of an iron frame, into which any kind of bottle or mason jar is inverted, and can be hung anywhere. See illustrations. Price, frame only, 25c.

"BON-MAX" DRINKING PANS.

This inexpensive drinking fountain pan consists of a mason jar lid welded to a steel pan. Any pint, quart or half gallon mason jar will fit. Price of pan, each, 10c.

MODEL WALL FOUNTAIN.

This fountain is made of galvanized iron and is flattened on the back so it can be hung on the wall of the poultry house to prevent litter from getting in the water. It has a good sized square opening, making it easy to clean and permitting a free flow of water. It will last a lifetime.

Price, 1 qt. size, 50c; 1 gal. size, 75c; 2 gal. size, \$1.00.

Shipping and Exhibition Coops

BARTELDES' EXHIBITION COOPS

The Popular Show Coops.

It is strong and can be sent long distances with safety to itself and contents. The bars are ¾-inch; the ends and back of heavy canvas. Shipped to customers K. D. Can be put together quickly.

No. 4, for pair, 24x30x30 in., each, \$2.40.

No. 2, for pen, 24x42x30 in., each, \$3.25.

No. 1, same dimensions as No. 2, but has 2 compartments.



Each, \$3.40.

Pigeon and Bantam Coop. 45x15 inches, with two partitions, dividing into three compartments. These partitions are hinged and can be opened back and fastened, thus making one large compartment. Each, \$2.50.

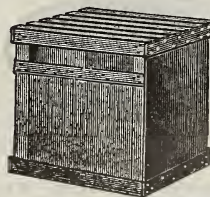
RACINE SHIPPING COOP.

Size A, for single bird, 12 in. wide, 21 in. long, 21 in. high; 40c each; \$4.50 dozen.

Size B, for pair or trio, 18 in. wide, 21 in. long, 21 in. high; 50c each; \$5.65 dozen.

Size C, for pen, 24 in. wide, 21 in. long, 21 in. high, strong, 60c each; \$6.50 dozen.

Size D, for pen, 30x21x21, extra strong, 70c each;



\$7.50 dozen.

Six of one size at the dozen rate.

Poultry Department—Continued

Feeders

FEED AND WATER JARS.

Plain, made of stoneware, holding about 1½ quarts. For either feed or water. Very easy to keep clean. 6x3 inches inside. Price, 2 for 25c; 1 dozen, \$1.40.

Concave, same size jar with concave bottom. Will not crack from freezing water and is not easily upset. Same price as the plain.



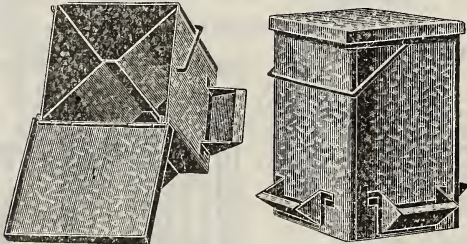
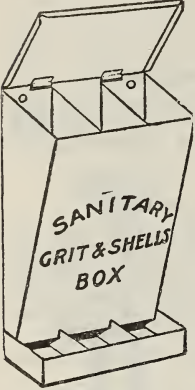
SANITARY SELF-FEEDING BOXES FOR POULTRY.

This box is manufactured from the best galvanized iron. It can be hung up against the wall at any height desired. It is a first-class article, is practically indestructible and will last a lifetime. No. 0, 1 pint to a bin, 3 compartments, price, 40c No. 1, 2 quarts to a bin, 3 compartments, price, 75c. No. 2, 2 large compartments, price, \$1.00.

PEERLESS HOPPERS.

8-qt., \$1.15; 16-qt., \$1.65; 32-qt., \$2.25.

FOUR IN ONE SANITARY FEEDER.



Made of galvanized iron and collapsible. It has 4 compartments which can be used for 4 kinds of grit or feed. Size 7¼x7¼x11 inches. Being collapsible they are shipped knocked down; are put together in one minute. Each, 85c.

N. W. AUTOMATIC FEEDER AND FOUNTAIN.

Will feed water, grit, shell, grain, etc. Any size mason jar fits the pans. Made in 2 sizes. No. 5, each, 15c; No. 6, each, 20c.

BARTELDES' GALVANIZED FEED TROUGH.

No. 1. Size, 12 inches long, in 1, 2 or 3 compartments, price, 25c.
No. 2. Size, 30 inches long, width 7 inches, depth 4 inches, price, \$1.00.

PIGEON NAPPIES.

7-in. diameter, 2 for 25c; 12 for \$1.40.
9-in. diameter, 15c each; 12 for \$1.65.



MILLET SEED.

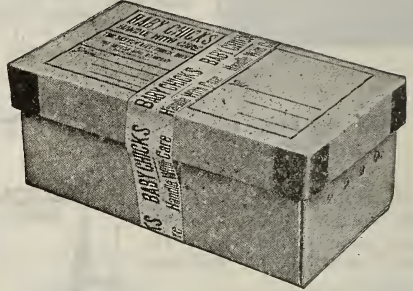
Let your fowls "work for their living" by scratching in litter for millet seed. It is a good food for the growing chicks. Price, 8 lbs. for 25c; 25 lbs. for 65c.

MODEL CANFIELD DRINKING CUPS.

These cups are made of sheet iron, heavily enameled, and hold half a pint each. They are indispensable for watering and feeding birds cooped in exhibition cages. The back is flat with hooks provided for hanging to slats or wire front of cage. Have large flat bottoms to prevent tipping if set in cage.

Price, each, 15c; by mail, 20c.

The Sefton Live Chick Box



The Sefton Live Chick Box is shipped to you folded flat and is very easily set up. Made from corrugated paper throughout. It is lighter and much more convenient than wooden boxes, and in some instances the amount saved in express charges alone will pay for the box.

Prices: 25 chicks, size 12x6x5, 20c each; 50 chicks, size 12x12x5, 30c each; 100 chicks, size, 24x12x5, 50c each.

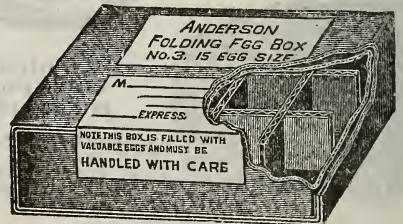
TARRED PAPER.

Cover your chicken houses with tarred paper to keep dampness out and to prevent draughts. Can be furnished in rolls, ranging from 40 to 60 pounds, and 32 inches wide. Price, 2½c per lb.

GALVANIZED POULTRY NETTING.

The best and cheapest fence to put around a chicken yard. Sold in full rolls of 150 lineal feet, any size from 3 to 6 feet high; 2-inch meshes. Price, 60c per 100 square feet. Rabbit wire, 1-inch meshes, from 1 to 3 feet high. Price, \$1.60 per 100 square feet.

Eggs Boxes and Carriers



EGG SHIPPING BOXES.

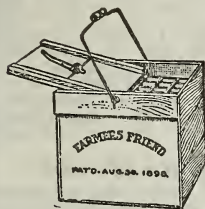
The Anderson.

It's made of corrugated paper and is a most excellent shipping box. Is supplied knocked down.

No. 3, holds 15 eggs, 15c each; \$1.50 dozen.
No. 4, holds 30 eggs, 20c each; \$2.25 dozen.
No. 5, holds 50 eggs, 30c each; \$3.00 dozen.

Poultry Department—Continued

Eggs Boxes and Carriers



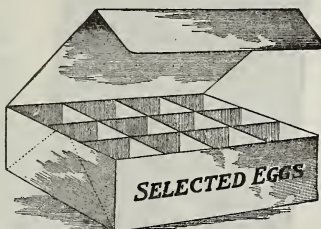
FARMER'S FRIEND EGG CARRIER.

The most complete egg carrier on the market; holds twelve dozen eggs. It is equipped with an adjustable cover and a patent combination lifter and fastener. Just the thing for the farmer and poultryman.

Price, complete, 75c.

PAPER EGG BOXES.

Just the thing for use in delivering eggs for family egg trade. You will get a premium over market when you deliver good stock in these boxes.



Eric. One dozen size, arranged like cut, 3x4. Single dozen, 15c; 100 for \$1.05; 1,000 for \$8.00.

Sewanee. One dozen size, long shaped, 6x2, extra heavy paper. Single dozen, 20c; 100 for \$1.25; 1,000 for \$10.00.

Eagle Paper Egg Box. Dark color, 3x4, plain or printed "Selected Eggs." Dozen, 15c; 100, \$1.00; 1,000, \$7.50.

Navajo Paper Egg Box. Tin Clasp, 3x4, plain only. Dozen, 15c; 100, \$1.15; 1,000, \$9.00.

Navajo Paper Egg Box. Blue lined, 3x4, plain only. Dozen, 15c; 100, \$1.10; 1,000, \$8.50.

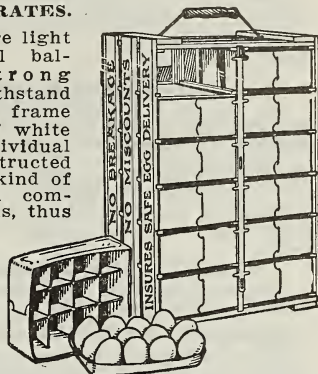
Navajo Paper Egg Box. No clasp, 3x4, plain or printed "Selected Eggs." Dozen, 15c; 100, \$1.05; 1,000, \$8.00.

Seminole Paper Egg Box. 6x2, plain or printed "Selected Eggs." Dozen, 15c; 100, \$1.15; 1,000, \$9.00.

Scout Paper Egg Box. 6x2, plain or printed, "Selected Eggs." Dozen, 15c; 100, \$1.05; 1,000, \$8.00.

MODERN EGG CRATES.

These crates are light in weight, well balanced, and strong enough to withstand any use. The frame work is made of white wood and the individual carriers are constructed of the toughest kind of jute board with compartment divisions, thus assuring perfect safety for eggs.



Size No. 4, holds 4 dozen eggs.....\$1.25
 Size No. 8, holds 8 dozen eggs..... 1.50
 Size No. 12, holds 12 dozen eggs..... 1.75

HUMPTY DUMPTY EGG CARRIER, SLATTED CRATES.

This carrier can be folded flat when not in use. Six dozen size, 35c each; 12 dozen size, 50c each.

BARTELDES' BEST LINE

Condition Powders, Lice Killers and Remedies



BARTELDES' POULTRY REGULATOR.

Is a compound of vegetable extracts, herbs, roots, etc., so proportioned that they act gently on the fowls' internal organs, relieve and remove any irregularities that exist and tone up the system. It is the best condition powder on the market; try it. Small size package, 25c; large size package, 50c.

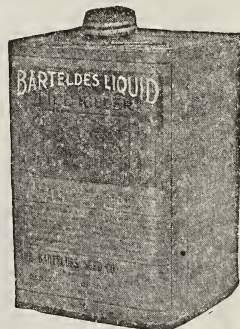


BARTELDES' INSECT POWDER.

Will kill insects on poultry, live stock and plants; exterminates chiggers, moths, ants, roaches, fleas, lice, etc. Can with perforated top, 25c.

BARTELDES' LIQUID LICE KILLER.

A wholesale lice and vermin destroyer. Saves expenses and labor. No dipping, no dusting, no greasing, easily applied. Does not injure or mar the plumage. One-quart can, 35c; 1/2-gallon can, 60c; 1-gallon can, \$1.00.



BARTELDES' ROUP CURE.

Cures Roup and Cures it Quick.

This preparation is a powder and has made some wonderful cures. It is very effective and quick acting. Will cure the most stubborn cases. Used in drinking water. It is put up in two sizes; 50c and \$1.00, postpaid.

BARTELDES' COLUMBINE GRADE PARROT FOOD.

Is a mixed food which will keep Polly in good health. Put up in packages. Price, 15c.

Poultry Department—Continued

BARTELDES' BRONCHITIS REMEDY.

This is one of the best remedies for Bronchitis. As this disease is caused by colds, keep the fowls out of damp quarters, sudden changes of temperature, etc. Price, per pkg., 50c, postpaid.

BARTELDES' CHOLERA CURE.

The surest and most effective cure for cholera and other digestive organ troubles. Used in drinking water. Price, 50c, postpaid.

BARTELDES' SCALY LEG AND HEAD LICE SALVE.

Used on young chicks and for scaly legs. Small size can, 10c; large size can, 25c, postpaid.

BARTELDES' NO-FLY—Liquid.

Will keep flies off your cows and horses. $\frac{1}{2}$ gallon, 60c; gallon, \$1.00.

BARTELDES' WHITE DIARRHOEA REMEDY.

White Diarrhoea is often times not serious in itself, but will lead to something worse. It ought to be treated immediately with Barteldes' White Diarrhoea Remedy. Price, per bottle, 50c; cannot be mailed.

BARTELDES' ANIMAL REGULATOR.

It is not only one of the best regulators but also a stimulating tonic. It consists of pure medicinal roots, barks and herbs, carefully mixed in the proportions to gently act on the bowels, liver and digestive organs of farm animals, and to purify the blood. It insures a perfect digestion. The worst run-down animal can be given Barteldes' Animal Regulator according to directions printed on each package and an improvement will be noticed in a very short time.

Small size carton, 25c; large size carton, 50c; 9-lb. sack, \$1.00; 14-lb. sack, \$1.50.

BARTELDES' MICROZONE—Liquid.

This up-to-date remedy will cure roup, sore eyes, sore mouth, sore breast, back or shoulder, cracked heels, wounds, sores or cuts, saddle galls and canker. Used in drinking water for roup, or a teaspoonful is mixed with one pint of warm water and applied with a clean rag on sores. Bottle, 50c. Tablets, concentrated; dissolves easily; 50c, postpaid.

AVENARIUS CARBOLINEUM—Liquid.

The famous German Wood Preserver and Insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum to permanently destroy all kinds of vermin and preserve your building from rot and decay. Prices, qt. can, 50c; gal., \$1.50. For large quantity, ask for prices.

FLOUR OF SULPHUR.

Good to remedy canker mouth, etc. Also to burn as disinfectant. 1 lb., 10c; 4 lbs., 30c; 10 lbs., 50c.

TOBACCO DUST.

Ground very fine. Drives away lice and vermin. 1 lb., 10c; 5 lbs., 40c; 25 lbs., \$1.50; 100 lbs., \$4.80.

Egg and Meat Preservers

WATER GLASS EGG PRESERVER.

It is a simple matter to preserve eggs with Water Glass Egg Preserver. The pure heavy Water Glass is simply diluted one part to ten of boiled water, the eggs placed in an earthen jar or barrel and covered with the solution. If you are preserving your eggs as fast as they are laid, make a solution first and put the eggs in it as they are gathered.

When strictly fresh eggs have been put into Water Glass Egg Preserver they have invariably, at the end of six months, come out in better shape than the average market eggs supposed to be fresh.

One gallon of Water Glass Egg Preserver will preserve nearly 100 dozen eggs. Price, gallon, \$1.50; quart, 40c; pint, 25c. Cannot be mailed.

SMOKE FLAVOR.

This is a liquidified hickory smoke and is used for smoking hams and bacon. It is applied with a brush, and gives exactly the same results as if deposited on the meat by the old method of smoking. Try a bottle of it on some of your hams or bacon, and you will never go back to the old method of smoking.

Price, small bottle, 35c; large bottle, 75c. Cannot be mailed.

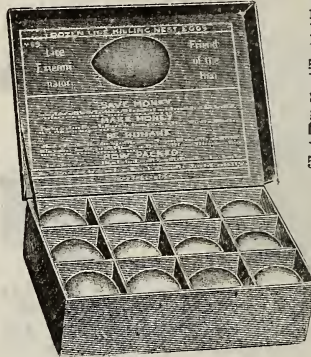
OCULUM.

A scientific remedy and preventative for cholera, roup and white diarrhoea; also cure for gapes, diarrhoea in sheep, calves, colts and kidney worm in hogs. All of these diseases are caused by germs, and the only way to cure the disease is to kill the germ; the surest and safest remedy on the market is Oculum.

Innoculate your fowls and prevent these diseases. Oculum is very easy to apply. Directions and dropper with each bottle. Prices, 50c and \$1.00.

BARTELDES' MEDICATED NEST EGG.

Lice destroyer and nest egg combined. It is a sure death to all lice and mites affecting poultry. When in use it slowly wastes away, giving off fumes fatal to all insect vermin. 5c each; 50c per dozen.

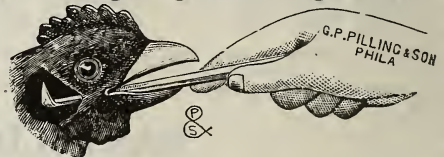


BARTELDES' LIMBERNECK REMEDY.

Limberneck is caused by eating decayed animal matter, and is fatal if not treated at once. This remedy is one of

the most effective ever put on the market, and will do the work if used in time. Price, per pkg., 50c, postpaid.

Pilling Angular Killing Knife



By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. 50 cents, postpaid.

French Poultry Killing Knife



Every poultry raiser should have one Killing Knife. These are made of finely tempered instrument steel, with nicked handle; will last a lifetime. Sent postpaid on receipt of 50c.

PLAIN BRUSSELS HAIR GAPE WORM EXTRACTOR.

10c each, postpaid.

PHILADELPHIA GAPE WORM EXTRACTOR.

Price, postpaid, 25c.

Poultry Department—Continued

PERSIAN INSECT POWDER.

The grade we handle is strictly pure. Don't be deceived by any low priced, adulterated article. ¼ lb., 20c; ½ lb., 35c; 1 lb., 50.

CHLOROLEUM—Similar to Creolio—Liquid.

Chloroleum disinfects, kills lice and mites, cures and prevents cholera and roup in poultry. Effectual and economical. 6-oz. bottle, 25c; pint bottle, 40c; qt. can, 60c; ½ gal., 90c; gallon, \$1.50.

LIME AND SULPHUR SOLUTION—Liquid.

Extensively used for spraying poultry houses to kill lice and mites. Pint cans, 25c; qt. cans, 40c; gallon cans, 70c.

PURE SULPHUR FUMIGATING CANDLES.



Our Pure Sulphur Fumigating Candles are equal to any Fumigating Candles on the market. They are easy to light, easy to extinguish, safe to use, and produce a deadly vapor to all infectious diseases, disease germs and insect life. Price, each, 10c; per dozen, \$1.00; by mail, each, 5c extra.

VARIOUS POULTRY FOODS

Prices Subject to Change

Ask for Latest Price List—Sent Free

BARTELDES' CHICK FEED (HOYT'S).

The Best Balanced Dry Foods for Chicks.

This is our own formula; beware of imitations. In Barteldes' Chick Feed we know we have a food far superior to any other chick feed on the market. It is made from the best of seed grain. It is a perfect chick food. It contains all the necessary ingredients that a chick needs. It will prevent bowel trouble and all other chick complaints. It is used by most every poultry raiser in Colorado. We have never had a single complaint against it; everyone pronounces it a wonderful food. Put up in our own printed sacks.

Price: 6-lb. pkg., 25c; 14-lb. sack, 50c; 30-lb. sack, 90c; 50-lb. sack, \$1.50; 100-lb. sack, \$2.75.

DENVER CHICK FEED.

A good mixed chick feed, similar to Barteldes' Chick Feed, but not quite as complete in ingredients. 7 lbs. for 25c; 17 lbs. for 50c; 35 lbs. for \$1.00; 100 lbs. for \$2.25.

BARTELDES' DEVELOPING FOOD.

Has no equal for growing chicks. A mixture of small grains, beef scraps, charcoal and other ingredients for the quick growth of poultry. Should be given as soon as chicks get too large to be fed Barteldes' Chick Feed. Price: 7 lbs. for 25c; 17 lbs., 50c; 50 lbs., \$1.25; 100 lbs., \$2.35.

BARTELDES' FATTENING FOOD.

A fowl to be worthy of the highest market price must be "finished," that is, it must have a liberal quantity of fat and meat on its frame, and that is easily obtained by using

Barteldes' Fattening Food. Price, 50-lb. sack, \$1.25; 100-lb. sack, \$2.25.

DENVER LAYING FOOD.

A Carefully Balanced Mash Food for Eggs and Feather Making.

We feel that we are familiar with the needs and requirements of our Western poultry breeders, and, in offering this Mash, we know we are offering a high grade article that gives favorable results. A trial will convince the most skeptical that this food is an egg producer. Price, 50 lbs., \$1.00; 100 lbs., \$1.75.

BARTELDES' MIXED HEN FEED.

This is a balanced food of mixed grains for laying hens. It contains grit, shell, bone, dried meat, sunflower and mixed grains of different kinds in suitable proportions, to promote egg yield. The variety of grains, shell, grit, dried meat, etc., being of different size induces fowls to scratch more, and as exercise is necessary to promote digestion, they will be kept strong and vigorous.

Price fluctuates. Present price, 50 lbs., \$1.10; 100 lbs., \$1.90. Ask for quotations on large quantities.

BARTELDES' MIXED PIGEON FEED.

Specially prepared for pigeons and squabs, contains red wheat, Kaffir corn, cracked corn, buckwheat, many other suitable grains and shell. Price, 7 lbs., 25c; 50 lbs., \$1.25; 100 lbs., \$2.25.

CRUSHED OYSTER SHELL.

This is a most important article for the poultry yard, and should be supplied to the fowls liberally.

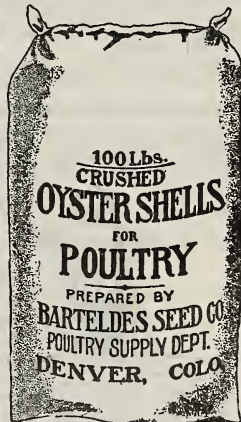
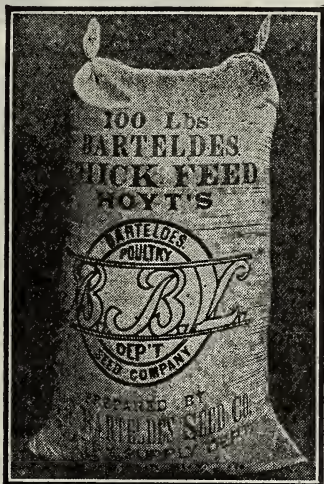
Our shell is of superior quality, as all parts of the egg shell are contained in them; whereas a good portion of the shell offered is nothing more than the refuse of the fertilizer works and not fit to offer a decent hen.

5-lb. package . . . \$0.15
12-lb. package . . . 25
30-lb. sack . . . 40
50-lb. sack . . . 70
100-lb. sack . . . 1.25

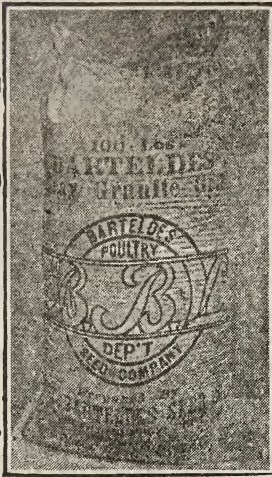
Ask for price on large quantities.

Crushed Clam Shell—Same price as Oyster Shell.

☞ Kaffir Corn, Wheat, Corn, whole and cracked, Barley, whole and ground, small White Peas, at market prices. Remember, when you buy these Grain Foods from us you get full weight.



Poultry Department—Continued

**GRAY GRANITE GRIT.**

It is made from crushed rocks found in the Rocky Mountains and of such composition that the expansion and contraction of the gizzard breaks it into small pieces, which keeps continually sharp until the last and smallest. 5 lbs., 15c; 12 lbs., 25c; 30 lbs., 40c; 50 lbs., 70c; 100-lb. sack, \$1.25; 300 lbs., \$3.

MEAT AND BONE MEAL.

Is a well balanced mixture of fine ground bone and meat meal. Admirably adapted for building up

and fattening broilers. Prices: 13 lbs., 50c; 25-lb. sack, 85c; 50-lb. sack, \$1.60; 100 lbs., \$3.00.

DRIED MEAT, BONE AND BLOOD.

Similar to above, with addition of blood. Prices: 13 lbs., 50c; 25 lbs., 85c; 50 lbs., \$1.60; 100-lb. sack, \$3.00.

MEAT MEAL.

Meat Meal is a concentrated food, containing 60 to 65 per cent protein. In the meat meal we sell there is absolutely no adulteration, and the analysis will be found uniform throughout. A great flesh producer. 13 lbs., 50c; 25 lbs., 85c; 50 lbs., \$1.60; 100-lb. sack, \$3.00.

GREEN CUT BONE—Granulated.

Made from soluble bones, dried but not cooked, retaining all the marrow and oil in the bones. Price: 7 lbs., 25c; 15 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.35.

GRANULATED BONE No. 1—Coarse, Strictly Pure.

Consists of ground beef bone, thoroughly dried and free from grease. Rich in phosphate of lime, which is so necessary for making good egg shells and for building up the frame of the chicken. Should be placed in liberal quantities in a clean, dry place, accessible to the chickens at all times.

Price: 10 lbs., 50c; 25-lb. sack, \$1.00; 50-lb. sack, \$1.75; 100-lb. sack, \$3.30.

GRANULATED BONE No. 2—Second Grade.

Made from good bones, though not selected. Price: 10 lbs., 35c; 25-lb. sack, 70c; 50-lb. sack, \$1.30; 100-lb. sack, \$2.50.

SWIFT'S HIGH PROTEIN BEEF SCRAPS.

A very superior grade of meat scraps prepared in a meal suitable for feeding in mash or with other soft foods. Contains fully 50 per cent protein and 8 per cent fat. Every pound contains as much feeding material as 10 lbs. of fresh meat. Is bound to give good results.

Price: 4 lbs. for 25c; 25 lbs. for \$1.25; 50 lbs., \$2.15; 100 lbs., \$4.00.

**GREEN CUT MEAT AND BONE—Dried.**

This is a Western product and a most excellent food, having all the elements necessary to make healthful growth. The meat is sufficiently evaporated to prevent becoming rancid. Keeps well. Should be placed in liberal quantities in a clean, dry place, easily accessible to the chickens at all times. Price: 7 lbs., 25c; 15 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100-lb. sack, \$2.35.

RED PEPPER COMPOUND FOR POULTRY.

This can be mixed with soft food and fed to advantage. Price, per lb., 25c; 5 lbs. for \$1.00; 25 lbs., \$4.50.

COLORADO HIGH PROTEIN BEEF SCRAPS.

Practically the same as Swift's, but manufactured in Denver. 4 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.25; 50 lbs., \$2.10; 100 lbs., \$3.85.

BONE MEAL No. 1—Fine, Strictly Pure.

Is the same as the coarse, but ground finer for the smaller chicks, and is a great frame builder. It can be mixed with the mash in limited quantities. Price: 10 lbs., 50c; 25-lb. sack, \$1.00; 50-lb. sack, \$1.75; 100-lb. sack, \$3.30.

ARMOUR'S BLOOD MEAL—Deodorized.

Conceded to be one of the greatest egg producers on earth. It is a great chick grower. If you want winter eggs, blood meal will bring them. One of the cheapest foods there is: One lb. is equal to 16 lbs. of fresh meat. As to the advantage gained by feeding blood meal to young chicks, ducks and turkeys, we can say there is positively nothing better for them. One heaping teaspoonful a day fed in a mash for a dozen hens will make an increase of eggs that will be surprising. Price: 3 lbs., 25c; 10-lb. bag, 70c; 25 lbs., \$1.65; 50-lb. keg, \$2.75; 100-lb. keg, \$5.00.

BLOOD MEAL, COLORADO MADE.

Manufactured by our own Denver Packing Company, practically the same as Armour's, but not fully deodorized. Price: 4 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.15; 50 lbs., \$2.15; 100 lbs., \$4.00.

ALFALFA CLOVER MEAL.

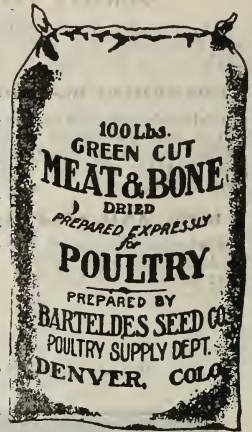
This is alfalfa hay reduced to a meal containing the entire product—stalks, leaves and blossoms. It is a grand green food for winter. It furnishes protein, lime and other mineral salts. Fowls relish it immensely. Feeding clover insures an increase of fertile eggs. It likewise adds lustre to the plumage. In original sacks of 100 lbs., at \$1.40 per 100 lbs. Less sack lots at 2c per lb.

CHARCOAL.

Pure charcoal is an excellent aid in arresting bowel complaints, and is both simple and harmless. A corrector of bowel troubles where the hens have not had a variety.

Granulated. Suitable size for grown fowls; can be kept in open dish ready to be eaten as wanted. 2-lb. carton with directions, 25c; 10 lbs., 60c; 25 lbs., \$1.00; 100 lbs., \$3.00.

Powdered. Suitable for chicks' feed in soft food. Price same as above.



SATISFACTION OR YOUR
MONEY BACK

THERE IS ONLY ONE BEST

Pratts

FORTY YEARS ON THE
MARKET

Guaranteed Animal and Poultry Regulators and Remedies

PRATTS POULTRY REGULATOR.



This is the original Poultry Regulator of America, in use by the most successful poultry raisers everywhere.

It is entirely different from Pratts Animal Regulator.

It is a perfect digestive and tonic suited to the constitution of poultry.

It is a guaranteed egg producer, and when regularly used, hens lay throughout the year.

It prevents chicken cholera, gapes, roup, rheumatism, expels worms, prevents leg weakness, egg eating.

It also greatly improves turkeys, geese, ducks, pigeons and guinea fowls—making them grow bigger and quicker. 100-lb. bags, \$9.00; 25-lb. pails at \$2.50. 25c, 50c and \$1.00 packages.

PRATTS ROUP REMEDY. (Tablets or Powder.)

A scientific preparation guaranteed to prevent and cure roup, colds, canker, catarrh and diphtheria. Pratts Roup Tablets for individual treatment of advanced cases, will cure. One trial as a preventive will convince you that you need this valuable remedy. 25c, 50c and \$1.00 a box.

PRATTS POULTRY DISINFECTANT AND LICE KILLER.

If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with Pratts Poultry Disinfectant, most all their troubles would vanish. Guaranteed as a disinfectant and destroyer of lice, mites and vermin of all kinds. Put up in 1 qt., 2 qt., and 1-gal. cans. 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can, \$1.00.

PRATTS LICE KILLER. (Powdered Form.)

It quickly and thoroughly kills all lice on little chicks, big chicks, setting hens, and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys insects and bugs on vines, plants and flowers. A valuable deodorizer and disinfectant, for all poultry houses, barns, stables and dwellings. Drives out moths from closets, furniture, carpets and clothing. 25c and 50c.

Pratts Cholera Remedy, 25c and 50c a box.

Pratts Head Lice Ointment, 25c a box.

PRATTS BRONCHITIS REMEDY.

Bronchitis in poultry is fatal in a few days unless promptly checked with Pratts Bronchitis Remedy. This remedy is sure, safe and quick, and will save your birds. 25c and 50c boxes. Mailed, postpaid, on receipt of price.

PRATTS CONDITION TABLETS.

A "bracer" for overworked, run-down poultry. Keeps show birds in the pink of condition; puts flesh on thin birds; prevents colds, roup and liver troubles. We guarantee this Remedy to satisfy you or refund purchase price. 25c and 50c a box. Mailed, postpaid, on receipt of price.

PRATTS BABY CHICK FOOD.



This is one of the greatest Money Savers and greatest Chick Savers ever placed on the market. Every man, woman or child who raises little chicks, turkeys, ducks and geese should try at least one package of Pratts Baby Chick Food. It is a scientific food ration to be fed for the first three weeks.

If you want real success with your hatches, if you want to save all the baby chicks, if you want them to grow fast—get Pratts Baby Chick Food on our recommendation for your first trial, after that you will never be without it.

Put up as follows: 1-lb. package, 25c; 3-lb. package, 50c; 14-lb. bags, \$1.00; 50-lb. package, \$3.00; 100-lb. bags, \$5.75.

PRATTS WHITE DIARRHOEA REMEDY.

This remedy will positively save many dollars worth of little chicks to poultry raisers. It has taken us nearly three years to find a remedy for White Diarrhoea and we are so sure that we have it in this article that we are authorized to refund the purchase price in case it fails. 25c and 50c a box. Mailed, postpaid, on receipt of price.



PRATTS ANIMAL REGULATOR.

This is the original and pioneer Stock Regulator of America. It keeps horses well and strong, improves their wind, and makes their coat sleek and glossy.

Cows give more and richer milk, the percentage of butter fat being increased, and their calves are strong and healthy. Steers fatten in half the time.

Hogs are raised and fattened quickly and kept free from disease. Sheep are kept healthy, and their meat and wool improved by its use. Test it on our guarantee to do the work or money refunded.

25c, 50c and \$1.00 packages. 12-lb. pails, \$1.75; 25-lb. pails, \$3.00; 100-lb. sacks, \$9.00.

PRATTS DIP AND DISINFECTANT

Has received the U. S. Government rating for sheep scab (1 part Dip to 70 parts water). Cures sheep of ticks, foot-rot and other diseases; cures cattle of mange, ringworm, scabies, screw worms; cures horses of mange, ticks, lice, ringworm, thrush, galls, cuts, wounds; cures hogs of mange, lice, eczema, fly and maggots; cures dogs of fleas, lice and mange. \$1.00 a gallon; 35c a quart.

Pratts Healing Powder, 25c a box.

Pratts Veterinary Colic Remedy, 50c and \$1.00 a bottle.

Pratts Worm Powder, 50c and \$1.00 a box.

Pratts Distemper and Pink Eye Remedy, 50c a bottle.

Pratts Liniment (for Man or Beast), 25c, 50c and \$1.00 a bottle.

PRATTS HEALING OINTMENT. (For Man and Beast.)

This is a humane preparation for the quick cure of all sores, cuts, scratches, grease wounds, burns, scalds, corns, harness and saddle galls, barb-wire fence cuts, itching, eczema and eruptions. Heals naturally, permanently and leaves no dangerous scabs. Excellent for human use, too. 25c and 50c.





Send
for your copy

This free booklet is intended for you

THIS booklet is brimful of good news for the dairyman, farmer and breeder. It shows testimonials and pictures of calves raised without milk on

Blatchford's Calf Meal

The Complete Milk-Equal

— a thoroughly-steam-cooked "baby food" for calves to take the place of the cow's milk. It contains all the elements of whole milk, yet costs less than skim milk. This allows you to sell the milk and raise the calves at very small cost. *100 pounds makes 100 gallons.*

Prices: 25-pound bags, \$1.25; 50-pound bags, \$2.00; 100-pound bags, \$3.50

Blatchford's Pig Meal for "baby pigs"

Don't take chances on losing your young pigs at weaning time or allowing them to become runts. This is the time they need an easy, gradual change from the sow to the pasture, and it will pay you to see that they make this change on Blatchford's Pig Meal. *100 pounds makes 100 gallons.*

Sold in 100-pound bags only. Price, \$3.50

Blatchford's Egg Mash

When three months old start your pullets gradually on Blatchford's Egg Mash. This will make early layers of them beginning at five to six months old. By continuing on this perfectly balanced mash they become vigorous layers owing to the surplus nourishment received.

Sold in 100-pound bags only. Price, \$2.75

Blatchford's Milk Mash

Your "baby chicks," once started on this *imitation milk*, will grow rapidly and thrive vigorously. Bowel trouble is unknown to chicks given a few weeks' start on this perfect substitute for cow's milk. It contains Blatchford's thoroughly-steam-cooked Calf Meal.

100-pound bags, \$3.50; 25-pound bags, \$1.00

All prices f. o. b. Denver

OIL CAKE MEAL is the most valuable and useful by-products of the farm. It is not only very rich in protein but is a safe and palatable food. When fed judiciously there is no class of animals kept on the farm to which it may not be fed with profit for a shorter or longer period. It is much relished by all classes of domestic animals, and is, to some extent, an appetizer as well as a food. Being mildly laxative it exercises a salutary influence on the digestive organs. There is no kind of concentrated foods or grain with which it cannot be combined. To all kinds of growing animals it may be fed with much benefit in the winter, along with grain and other meal. It may form as much as 10 per cent of the concentrated feed. It is also very helpful for cattle that are finished on pasture.

As a food for milch cows Oil Cake Meal, to a certain limit, is most satisfactory; though it should not exceed 3 to 3½ pounds daily. It not only increases the quantity of milk; but will also increase the amount of butter fat. The amount of digestive protein in oil cake meal compared with other grain foods is from 2½ to 3 times larger.

OIL CAKE MEAL or **GROUND OIL CAKE**, as it is very often called, is the by-product of flax seed after the oil has been extracted. It contains 27.3 protein and 48.5 carbohydrate per 100 pounds. The nutritive ratio is 1:1.7.

In fattening all kinds of animals for the market a certain amount of Oil Cake Meal or Flax Seed Meal should be fed the last 3 or 4 weeks of the fattening period, as their use will not only add weight, but improve greatly the general appearance.

To poultrymen it is likewise of value in keeping fowls in good health. Price fluctuates. Present price: 8 lbs. for 25c; 25 lbs. for 70c; 50 lbs. for \$1.25; 100 lbs. for \$2.25.

FLAX SEED MEAL is made from whole flax seed, ground fine, and contains per 100 pounds 8.1 water; 4.7 ash; 21.6 protein; 7.3 crude fibre; 27.9 nitrogen extract, and 30.4 ether extract. Being richer than Oil Cake Meal it requires less to mix with other foods to obtain equal results.

A little fed occasionally to poultry is very beneficial. One tablespoonful in a mash to each dozen fowls, daily, is a great help during the moulting season. Present price: 1 lb., 10c; 3 lbs., 25c; 10 lbs., 80c; 25 lbs., \$1.75; 5 lbs., \$3.25.

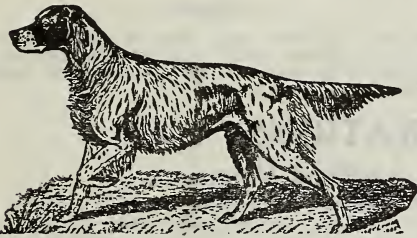
CONKEY'S REMEDIES

We handle a full line of Conkey's remedies and Tonics for poultry and stock. If interested ask for special circular sent free.

Conkey's Roup Cure, 25c, 50c and \$1.00 packages.
 Conkey's Bronchitis Cure, 50c package.
 Conkey's Cholera Cure, 25c and 50c packages.
 Conkey's Gape Cure, 50c package.
 Conkey's Chicken Pox Cure, 50c package.
 Conkey's Limberneck Cure, 50c package.
 Conkey's Scaly Leg Cure, 50c package.
 Conkey's Rheumatic Cure, 50c package.
 Conkey's Poultry Worm Cure, 50c package.
 Conkey's White Diarrhoea Cure, 25c and 50c packages.
 Conkey's Poultry Tonic, 25c package.
Lee's Liquid Lice Killer, 35c, 60c, \$1.00 cans.
Lee's Powdered Lice Killer, 25c cartons.

Conkey's Lice Powder, 10c, 25c and 50c packages.
 Conkey's Lice Killer, 35c, 60c and \$1.00 cans.
 Conkey's Laying Tonic, 25c, 50c and \$1.00 packages.
 Conkey's Horse Tonic, \$1.00 package.
 Conkey's Healing Powder, 25c and 50c packages.
 Conkey's Colic Remedy, 50c and \$1.00 packages.
 Conkey's Hoof Remedy, 50c and 75c packages.
 Conkey's Bag Ointment, 25c and 50c packages.
 Conkey's Stock Tonic, 25c, 50c and \$1.00 packages.
Lee's White Diarrhoea Remedy, 50c bottle.
Lee's Microzone, 50c bottle.

Dog Cakes, Remedies, Bird Foods, Etc.



Spratt's Dog Cakes. Dog cakes and bread should be fed dry; the dog having to gnaw them as they would a bone. When fed to puppies, dip in hot water or soup before giving.
 14-oz. cartons, 15c; 2½-lb. cartons, 30c; 5¼-lb. cartons, 50c; 25-lb. case, \$2.25; 50-lb., case, \$4.50.
Spratt's Puppy Cakes. 11-oz. cartons, 15c; 2½-lb. cartons, 30c; 4¼-lb. cartons, 50c; 25-lb. box, \$2.40.
Spratt's Terrier Cakes. About 2½-lb. cartons, 25c.

Spratt's Anti-Vomit Remedy. Bottle, 50c.
Spratt's Constipation Tablets. Pkg., 50c.
Spratt's Kidney Tablets. Pkg., 50c.
Spratt's Diarrhoea Tablets. Pkg., 50c.
Dog Soap with directions how to use. Pkg., 25c.

Poultry Soap with directions how to use it. Pkg., 25c.
Malted Kitten Food in tins. Price, 25c.
Cat Food. 12-ounce cartons, 10c; 2½-lb. cartons, 25c.
Barteldes' Fish Food. Per package, 10c.
Barteldes' Columbine Grade Parrot Food. Per pkg., 15c.
Bitter Iron Tonic and Song Restorer. Liquid. Creates appetite and restores lost song. 2-oz. bottle, 25c each.

McAllister's Mocking Bird Food. Strictly pure and high grade. Per bottle, 25c.

Bird Food Manna. Song restorer and prevents disease. Each caged bird needs it. In round balls ready to fasten to wire of cage. 15c each, prepaid.

Salt Cat aids digestion, invigorates and promotes good health; brick, 15c.

BIRD SEED.

Mixed Bird Seed, 1 lb., 10c; 3 lbs. for 25c.

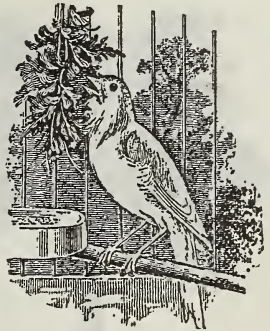
Canary, re-cleaned. 1 lb. for 15c.

He m p, Russian, choice. 1 lb. for 10c; 3 lbs. for 25c.

Rape, choice. 1 lb. for 10c; 3 lbs. for 25c.
 Larger lots at market prices.

Bird Sand. Pure and sifted, 2¼-lb. package, 10c.

Cattle Bone. A piece should be in every cage. 2 oz., 10c; 1 lb., 50c.



BARTELDES' HOOF PACKING.

Used to pack the underside of the hoof when it is too low, or when inflamed; also to prevent cracking. It is a white rock, easily dissolved into a thick paste, which soon hardens. It does not crack easily and keeps its pliability a long time. Prices: 5 lbs., 25c; 50 lbs., \$2.00; 100 lbs., \$3.50.

Bitter Lick Bricks. A new way to give conditioner to horses and cattle. Put up in bricks shaped so cattle can lick easily. One brick, about 2¼ lbs., 25c; dozen, \$2.50.

Holder for same, 20c each.

Good Books for Poultry and Pet Stock Fanciers

	Price
The Poultry Manual. A guide to successful poultry keeping	\$0.25
Five Hundred Questions and Answers . . . . .	.25
Artificial Incubating and Brooding . . . . .	.50
The Leghorns	1.00
The Plymouth Rocks (160 pages)	1.00
The Wyandottes (160 pages)	1.00
Eggs and Egg Farms . . . . .	.50
Turkeys (new edition) . . . . .	.75
The Bantam Fowl . . . . .	.50
Capons for Profit . . . . .	.50
American Standard of Perfection, latest edition	2.00
Successful Poultry Keeping	1.00
Ducks and Geese (new edition) . . . . .	.75
Poultry Houses and Fixtures . . . . .	.50
Rhode Island Reds . . . . .	.75
From Shell to Show Room, by Hewes . . . . .	.50
How to Build Poultry Houses . . . . .	.50
Minorcas, Every Comb and Color, by Northrup . . . . .	.50
Profitable Poultry Feeding . . . . .	.25

	Price
Money in Broilers and Squabs . . . . .	.50
Diseases of Pigeons, by Summers . . . . .	.50
Pigeons and All About Them, by Gilbert	1.00
Successful Pigeon Raising and Breeding, by Press . . . . .	.50
(32 pages) . . . . .	.25
Pigeon Queries . . . . .	.25
Reliable Poultry Remedies . . . . .	.25
Money in Squabs . . . . .	.50
The Dog. A cloth-bound book telling all that is necessary to know about choosing, feeding, curing and training . . . . .	.50
The Belgian Hare Guide . . . . .	.25

The Cyphers Series of Books on Poultry.

Profitable Poultry Keeping in all Branches . . . . .	.50
Profitable Care and Management . . . . .	.50
Profitable Poultry Houses and Appliances . . . . .	.50
Profitable Egg Farming . . . . .	.50
Profitable Market Poultry . . . . .	.50
The set of five will be mailed on receipt of	2.00

RAFFIA AND REEDS

INDIAN BASKETS.

How to make these baskets is now taught in nearly all schools and kindergartens, and is also practiced in many homes as a pastime or as a source of revenue. These baskets are made of **Raffia** in both natural and dyed colors. We are headquarters for this and can furnish it in any quantity and in many different colors.

When Raffia is wanted by mail, add postage. We will be pleased to send free our set of samples, showing all our colors on a card. Large lots to teachers and professional weavers at special prices.

RAFFIA.

COLORED. When ordering mention number. Per small bunch, 5c; 2 ozs., 10c; per ¼ lb. of one color, 20c; per ½ lb. of one color, 35c; per lb. of one color, 65c.

- | | |
|---------------------|-------------------------|
| No. 1, Dark Red. | No. 8, Jet Black. |
| No. 2, Dark Green. | No. 9, Old Gold. |
| No. 3, Olive Green. | No. 19, Yellow. |
| No. 4, Pink. | No. 11, Indian Red. |
| No. 5, Navy Blue. | No. 12, Purple. |
| No. 6, Seal Brown. | No. 13, Canary, Yellow. |
| No. 7, Orange. | No. 14, Burnt Orange. |

NATURAL.—1st Grade. Per 3-oz. bunch, 10c; per ½ lb., 20c; per 1 lb., 30c. In original skeins of 1½ to 3 lbs., each at 25c per lb. 5-lb. lots or more at 20c a lb.

BOOKS ON RAFFIA WORK (Postpaid).

- | | |
|-----------------------------------|-------|
| Basket Making—How to Do It..... | Each |
| Designs for Bead Work, price..... | \$.25 |

RATTAN REEDS.

These are the Imported Reeds—nothing better. Their usefulness in the work with Raffia is very prominent. We now carry a stock in sizes from No. 1, the smallest, to No. 6. No. 1, oz., 10c; ¼ lb., 35c; lb., \$1.25. No. 2, oz., 10c; ¼ lb., 30c; lb., \$1.15. No. 3, oz., 10c; ¼ lb., 30c; lb., \$1.10. No. 4, ¼ lb., 30c; lb., \$1.00. No. 5, ¼ lb., 25c; lb., 90c. No. 6, ¼ lb., 20c; lb., 75c. If by mail, add postage.

NEEDLES.

No. 21, 1½ inch long; No. 18, 1¼ inch long; No. 17, 2 inches long. Six needles for 5c. A package of 25, one size, for 15c. We can furnish needles blunt or sharp point.

HOUSE DECORATIONS

Artificial Palms

Made of Nothing but Perfect Leaves.

These plants are especially recommended for use in house decorating, for hallways, in reception rooms, on pedestals, hotels, public buildings, etc.

CHAMAEROPS—Fan Palms.

- | | | |
|---|------|--------|
| In 4-in. pots, 18 in. high, 5—6 leaves..... | Each | \$1.00 |
| In 5-in. pots, 24 in. high, 6—7 leaves..... | | 1.25 |
| In 6-in. pots, 36 in. high, 7—8 leaves..... | | 1.75 |
| In 7-in. pots, 44 in. high, 8—10 leaves..... | | 2.25 |
| In 8-in. pots, 56 in. high, 10—12 leaves..... | | 4.00 |
| In 10-in. pots, 6 ft. high, 12—14 leaves..... | | 5.00 |

PALM LEAVES.

- | | | |
|--|----------|--------|
| 16—18 inches long Fan Palm Leaves..... | Per doz. | \$2.00 |
| 20—22 inches long Fan Palm Leaves..... | | 2.50 |

PREPARED CYCAS LEAVES.

	Per pair of 10	Per bunch pair of 10	Per pair of 10
8 to 12 in. long.....	\$0.20	\$0.65	\$0.50
12 to 16 in. long.....	.25	.80	.55
16 to 20 in. long.....	.30	1.00	.65
20 to 24 in. long.....	.35	1.40	.75
24 to 28 in. long.....	.40	1.50	1.00

Supplies, and issue a 32-page price list for same.

CYCAS REVOLUTA—Sago Palm.

- | | | |
|--|------|--------|
| In 6-in. pots, 6 leaves, 24 in. high..... | Each | \$2.00 |
| In 7-in. pots, 7 leaves, 36 in. high..... | | 3.00 |
| In 8-in. pots, 8 leaves, 44 in. high..... | | 4.00 |
| In 10-in. pots, 10 leaves, 54-60 in. high..... | | 6.00 |



We have a special department for Florists' If interested, write us.

LARGER FAN PALMS, in Neat Square Boxes.

- | | | |
|---------------------------------|------|---------|
| 8-ft. Palms, 16—24 leaves..... | Each | \$ 7.50 |
| 10-ft. Palms, 20—24 leaves..... | | 10.00 |
- Larger than 10 feet made to order.

Chili Con Carne and Hot Tamale Ingredients

Dealers and others using quantity, will do well to ask us for prices for large lots.

Per lb.	Per 10 lb.	Per lb.	Per 10 lb.	Per lb.	Per 10 lb.
Chili Pepper Pods, dry.....	40c	\$3.80	True Petines.....	90c	\$8.50
Japanese Chili Pods.....	40c	3.75	Comino Seed.....	25c	2.25
			Oregano.....	30c	2.25
			Garlic.....	20c	\$1.60
			Mexican Beans.....	10c	.70
			Corn Husks.....	30c	2.25

Flavoring Seeds

We carry a full line of seeds expressly for use in flavoring pickles, soups; also baking, etc.

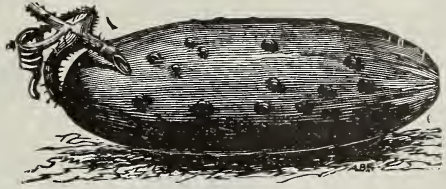
Per ¼ lb.	Per lb.	Per ¼ lb.	Per lb.	Per ¼ lb.	Per lb.
Anise, Italian.....	10c	30c	Pumpkin Seed, for medicinal use.....	10c	25c
Dill.....	10c	30c	Watermelon Seed, for medicinal use.....	10c	25c
Caraway, clean and fresh.....	10c	20c	Poppy, Blue.....	10c	25c
Coriander, bleached.....	10c	20c	Mustard, Yellow.....	10c	20c
Celery.....	20c	65c	Mustard, Black.....	10c	20c
			Fennel.....	10c	25c
			Cardamon Seed, select, .....oz., 20c	65c	\$2.50

If tamale ingredients and flavoring seeds are wanted by mail, add postage.

1915=SPECIALTIES=1915

BARTELDES SELECT PICKLE CUCUMBER.

This cucumber, as its name implies, is the leader of all the pickling varieties. It is more symmetrical in shape than the Boston pickling and holds its green color much longer. Being immensely productive it is in great favor with market gardeners and pickle factories and is rapidly becoming a great favorite for home use. Unlike other specialties, the price is so low that no one can consider it a luxury. Pkt., 5c; oz., 10c; ¼ lb., 30c; ½ lb., 55c; 1 lb., \$1.00.



Barteldes' Select Pickle.

WHITE BOKHARA OR SWEET CLOVER. (MELILOTUS ALBA)

ITS ADAPTABILITY.

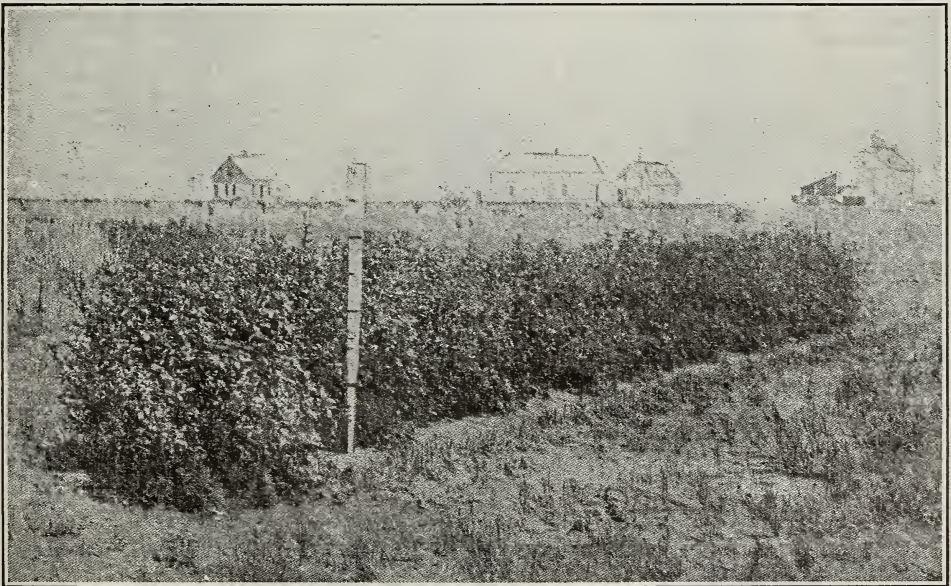
This biennial plant which, in many localities, has been considered as a troublesome weed, has now suddenly sprung into national favor through the discovery of the many practical uses to which it can be successfully adapted. It possesses a wider adaptability in regard to soil types and climates than any of the true clovers and probably wider than alfalfa. It thrives in the extreme South and grows vigorously in the North, where it is called upon to endure extremes of temperature. It thrives in the most humid climates as well as in the semi-arid regions where the rainfall is less than half of what is required for timothy and red clover. It has been known to produce good crops on the alkali soils of the West where sufficient alkali was present to prevent the growth of most farm crops. While it will grow in soils too sandy for ordinary field crops, in gravel pits and stone quarries, it also appears to be well adapted to raw clay soils.

ITS USES.

It makes excellent hay and while it is not relished by the stock at first they soon acquire a taste for it and eat it readily. Sweet Clover will never bloat.

It provides excellent pasture for all classes of live stock. An acre of sweet clover will ordinarily support twenty shoats, in addition to furnishing a light cutting of hay. It may be used as ensilage and also as a green manure crop.

As a honey plant it is especially valuable, furnishing nectar for the bees over a long season. The honey made from sweet clover is darker than that made from white clover and its flavor is not considered the finest unless mixed with other honeys produced from white clover, alfalfa or alsike and then its characteristic flavor is most pleasing. It yields a good crop and at the same time improves the soil on which it grows.



Row of Sweet Clover at Akron, Colo., Showing Proper Stage for Cutting

PARCEL POST REGULATIONS.

When goods are wanted by parcel post, postage must be added, as we do not mail goods free except Flower and Vegetable Seeds in packets, ounces, quarter of pound and 1 pound. Beans, Corn and Peas also are not mailed free and postage must be added.



Weight in Pounds	ZONES						
	Local	First	Second	Third	Fourth	Fifth	Sixth
1	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09
2	.06	.06	.06	.08	.11	.14	.17
3	.06	.07	.07	.10	.15	.20	.25
4	.07	.08	.08	.12	.19	.26	.33
5	.07	.09	.09	.14	.23	.32	.41
6	.08	.10	.10	.16	.27	.38	.49
7	.08	.11	.11	.18	.31	.44	.57
8	.09	.12	.12	.20	.35	.50	.65
9	.09	.13	.13	.22	.39	.56	.73
10	.10	.14	.14	.24	.43	.62	.81
11	.10	.15	.15	.26	.47	.68	.89
12	.11	.16	.16	.28	.51	.74	.97
13	.11	.17	.17	.30	.55	.80	1.05
14	.12	.18	.18	.32	.59	.86	1.13
15	.12	.19	.19	.34	.63	.92	1.21
16	.13	.20	.20	.36	.67	.98	1.29
17	.13	.21	.21	.38	.71	1.04	1.37
18	.14	.22	.22	.40	.75	1.10	1.45
19	.14	.23	.23	.42	.79	1.16	1.53
20	.15	.24	.24	.44	.83	1.22	1.61
21	.15	.25	.25				
22	.16	.26	.26				
23	.16	.27	.27				
24	.17	.28	.28				
25	.17	.29	.29				
26	.18	.30	.30				
27	.18	.31	.31				
28	.19	.32	.32				
29	.19	.33	.33				
30	.20	.34	.34				

Add one cent for every two additional pounds, up to 50 pounds, for Local, and one cent for every additional pound for First and Second Zones.

Parcels weighing 4 ounces or less, except books, seeds and plants, require 1 cent for each ounce or fraction thereof, any distance. Parcels containing seeds, plants or books weighing 8 ounces or less require 1 cent for each two ounces or fraction thereof, any distance. All parcels weighing more than the above require postage according to distance at the pound rate shown in the following table, a fraction of a pound being considered a full pound.

Local, First and Second Zones will carry 50 lb. packages; all other zones 20 lbs. is the limit.

INSURE AGAINST DROUGHT BY PLANTING
FETERITA



FETERITA

FETERITA HAS COME TO STAY

We know of no other variety of seed that has ever sprung into such immediate popular favor as Feterita. Feterita made good crops during the very severe drought of 1913 and also in 1914 in spots where it was too dry for corn, kaffir, etc., it made excellent yields. Feterita now has a firm place in general farming and statistics are being kept on it by the Kansas Board of Agriculture.

The two best features about Feterita are its wonderful ability to resist drought and its earliness. It has proved its ability to stand dry weather without any question as it has made good yields during the past two summers and in some cases without any rain whatever. Some growers report that Feterita is fully thirty-five to fifty days earlier than kaffir and this also is a big advantage. Those of you who have had kaffir corn caught by the frost will appreciate this.

Feterita branches out from the stem and one plant makes several heads. Chinch bugs do attack it but prefer other crops. Even when the stalks are eaten off it stools out again and still makes a crop.

The grain of Feterita is similar to milo but is pure white and also larger and softer. It does not shatter badly and yields up to eighty bushels per acre. Feterita is planted in rows like kaffir or milo, using from three to five pounds per acre and the crop is cultivated and harvested just like milo.

We advise you to plant a good acreage of Feterita and especially if you live in a region subject to extremely dry weather.

Price postpaid, per packet 5c; per pound 15c. For quantity prices please see Pink List.

THE BARTELDES SEED CO.

DENVER, COLO.

LAWRENCE, KANS.

OKLAHOMA CITY, OKLA.



SUDAN GRASS

A FIT COMPANION OF
— FETERITA —

PLANT
FETERITA FOR GRAIN
SUDAN GRASS FOR HAY

DONT WORRY ABOUT RAIN
THEY DONT NEED IT

THE CAMEL
— OF —
THE GRASS
— FAMILY —
EXTREMELY
DROUGHT
RESISTANT



THE BARTELDES SEED CO.,
COLORADO SEED HOUSE,
DENVER, COLORADO.