

18<sup>TH</sup> Annual

1888

Catalogue

# IOWA SEED COMPANY.

DES MOINES, IOWA.



150 ACRE SEED FARM 4 MILES WEST OF STORE.



PROFIT FIELD CORN



# INTRODUCTION.

OFFICE OF IOWA SEED COMPANY, DES MOINES, IOWA, January 1, 1888.

With pleasure we again greet our many old customers and friends, as well as the many new ones which are constantly coming to us, and whom one year's trial of our superb Iowa Seeds, usually persuades to stay by us. We can refer with pride to the many testimonials we are almost daily receiving from the most critical market gardeners in the country, as they tell more of the superior value of our seeds than anything we could say, and a perusal of them will convince all that our motto, "ONLY ONE QUALITY, THE BEST," is well taken.

We are taking special pains to grow and supply the very best vegetable, flower, field and grass seeds that can be produced, and we consider our efforts well rewarded by the universal verdict of our customers, and the rapidly increasing popularity of our Choice Iowa Seeds. We are located in the garden spot of the country, the center of the United States, where soil and climate are especially adapted to the raising of seeds. Our home seed farm consists of about 150 acres, and on this we have our experimental grounds, where we test all varieties of seeds sold by us, as well as most of the novelties which are offered each year, and also grow quite a large number of varieties of vegetables, all under the personal supervision of the senior member of our firm, Mr. H. C. Windsor. Aside from this, many of our seeds are grown for us under our direction in Adair, Dallas, Cass, Audubon and Polk counties. In this way we are certain of the purity and high quality of the seeds we offer, and only request that you give them a fair trial. At the Iowa State Fair, held in this city in September, 1887, there was a very large exhibit of the products of our seeds, and they attracted much attention. Next fall we expect to make a still larger display and shall be pleased to meet any of our customers there at that time. And here we take the opportunity to thank you all for your liberal orders and kind expressions of confidence, and solicit a continuance of them for the future.

## SUGGESTIONS TO CUSTOMERS.

**The Importance of Good Seed**—Cannot be overestimated, and we are certain that after a trial all our customers will agree that our had. Still when it is considered how the success of any crop depends, our would be sheer folly for any one to crop, and we want it distinctly under-*rantly either express or implied in way responsible for the crop.* But, however, we have so much faith in them that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them.



seeds are the purest and best to be many are the contingencies on which customers will readily see that it warrant them to produce a perfect stood that *we sell no seeds with war- any respect, and will not be in any*

**Our Prices**—Our constant aim is to make the *highest quality* the first consideration, and next to put our prices as low as good reliable seeds can be sold. In considering the prices or comparing them with others, please bear in mind that we deliver all Vegetable and Flower Seeds (except Peas, Beans and Corn) to you postpaid.

**Order Early**—Because your orders are sure to be promptly filled and we are sure to have what you want, which might not be the case late in the season, and you will be ready for planting when good weather comes.

**Charges Prepaid**—All seeds and plants, except those noted, are sent *prepaid* by mail or express, by direct and most direct route, unless ordered otherwise, and we guarantee their safe arrival.

**Shipping Directions**—In ordering please state whether it will be convenient for you to receive your goods by express, and if so, name your nearest express office, as all orders weighing two pounds and upwards, will be forwarded by express if possible.

**Send Money with Order**—Either by draft, money order, registered letter, or any manner convenient. We accept postage stamps as cash. We keep no book accounts in our mail order department, and the expense of sending goods C. O. D. is quite large.

**Testing**—All seeds are carefully tested and nothing sent out which we do not believe to be good in every respect.

**Guaranteed**—We guarantee the safe arrival of any goods which we send out. That your order will be filled promptly and well. We will be responsible that all money sent by bank draft, money order or registered letter, will reach us. When the order amounts to \$2 or over, the expense of sending money may be deducted from amount sent.

**Discounts**—On all seeds in *packets* amounting to \$1 or over, twenty per cent. For other discounts see heading of the respective classes of goods. Each year we put up a great many packets of seeds for free distribution among our customers by adding liberally of them to orders.

**Clubs**—We want a good live agent or club raiser in every town and community. If you desire to work for us write for special terms to agents and we will start you in the business.

**We will be obliged** to any of our customers who may favor us with the names of their friends and neighbors that are interested in gardening, and we will mail a copy of our new catalogue to them with pleasure.

**To Market Gardeners** and other large purchasers we shall be pleased to send our *special prices* on application.

**Our Responsibility**—As this book will probably go into the hands of many who are unacquainted with us, this question will naturally arise, and in answer to the same we respectfully refer you by permission to the Valley National Bank, of this city.

Respectfully soliciting your orders and correspondence, we remain,

H. C. WINDSOR, }  
M. L. PAGE. }

Yours, Very Truly,

IOWA SEED COMPANY



# Novelties for 1888,

— AND —

## VARIETIES OF SPECIAL MERIT.

**W**E present the following list of the newer varieties of vegetables to our customers this year, which have been carefully selected from the many which are offered by the seed trade, and we have used great care in choosing only such as we believed would be desirable acquisitions, and prove of great value to our customers. They are not merely novelties, whose only value is in their rarity, but they possess qualities of decided merit, and are far superior in their respective classes, to the older and better known varieties, and will undoubtedly, when they become more generally known, supplant many of the now standard sorts. We especially would call your attention to the novelties of our own introduction, which are illustrated on the outside cover of this Guide. We can recommend them all as possessed of real sterling merit, and it will pay you to try them. On all **seeds in packets** the purchaser is entitled to select **twenty-five cents worth extra** for each \$1.00 sent.

### IOWA SEED CO.'S NEW MARKET GARDENERS' BEET.

This most attractive novelty which we introduce to our customers this year we claim to be the **best in the world**. In it we have a variety entirely distinct from any heretofore introduced. Its shape is that shown on the cover of our catalogue, and market gardeners will readily see it is sure to become the leading market variety. Nine years ago in a field of Henderson's Pineapple Beet, grown on our seed farm in Madison county, we discovered some differing in shape from that valuable old variety. We have each year kept up this constant selection, keeping in mind this ideal shape, color and size, until this year we think we have as near perfection as can be attained. As will be noticed, it is very symmetrical, with small tap root and but few fibrous roots. Unusually small tops. **At the age of the Egyptian it is larger**, while it continues to grow until late in the fall, attaining a large size and making a good selling and eating beet for winter. By the first of October they measure eight inches in diameter and average six pounds each in weight.

Color outside is deep blood-red; inside layers of blood-red and pure white alternately. When cooked, they are a beautiful dark red throughout, fine grained and unsurpassed in quality.

Summing it all up, we find in it the **BEST BEET FOR EARLY MARKET**, the **BEST BEET FOR WINTER USE**, and owing to the small tops permitting them to be grown close together, and the peculiar shape of the bulb, it is the **MOST PROFITABLE BEET FOR THE MARKET GARDENER** and for the family garden of any we know of.

We want each one of our thousands of customers throughout this country to give this Beet a trial, and we know they will find we have not given it too high praise. Per pkt. 10 cts.; oz. 25 cts.;  $\frac{1}{4}$  lb. 75 cts.

### KING OF THE GARDEN LIMA BEAN.

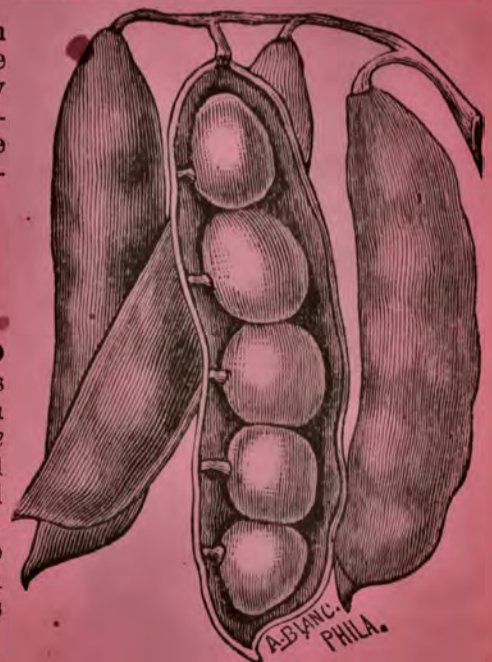
An improvement on the old Lima Beans. It is a very vigorous grower, requiring but two vines to each pole. They set their pods early, at the bottom of the pole, producing a continuous bloom and fruitage to the end of the season. Many of the pods measure from five to eight inches, and contain five, six and seven perfectly formed Beans to the pod, of superior edible quality. Per pkt. 10 cts.; qt. by mail 70 cts.; pk. \$2.25.

### EXTRA EARLY LIMA BEAN.

In this state the season is so short that often Lima Beans do not reach maturity. But this variety is so early, that by growing it all can indulge in this luxury. This desirable and distinct variety has been thoroughly tested by some of the best judges in every section of the country, and pronounced from ten to fifteen days earlier than any other. It is of the same size and general appearance as the ordinary variety, remarkably productive, and of extra fine quality. Per pkt. 10 cts.; qt. by mail 90 cts.

### THE DEACON LETTUCE.

The New York Agricultural Experiment Station in 1885, tested over **700 different kinds** of Lettuce from seedsmen and growers in all parts of the world, and in their report now before us, we find the following in regard to this variety: "*All in all this is the finest heading variety we have grown.* This is one of the dark green, thick leaved sorts, nearly all of which are of good quality. Head compact, roundish, or a little flattened when of full size, in some plants measuring fully five inches in diameter. Outer leaves few in number, which with the perfectly defined head give the plant a very distinct appearance." On our own grounds we have found this variety the slowest to run to seed, and one of the best heading kinds we have ever tested. Per pkt. 10 cts.; oz. 35 cts.



EXTRA EARLY LIMA.



## IOWA SEED CO.'S NEW

## VINE PEACH.



FROM A PHOTOGRAPH.

and northwest where fruit is scarce, we feel certain that they will quickly become popular, as they are easily cultivated, wonderfully prolific, and can be used in every way in which you would use a peach, except that they are not usually liked raw, although some consider them excellent simply sliced with a little sugar on. Many of the customers to whom we sold them last season expect to cultivate a large area in them this year, and market gardeners are already having considerable call for them from their customers. Try them, and we know you will be well pleased. Per pkt. 10 cts.; oz. 40 cts.

Marshall Wright, of Marshalltown, Iowa, writes: "I would say those seeds I purchased of you were very good. The Vine Peaches are a curiosity here, and they make the nicest sauce I ever saw."

## NEW ASTRO CUCUMBER.

Most of the long foreign varieties of cucumber will not do well in this country. But this novelty we have grown on our place several years with the best of success. It is the largest variety we have ever seen. With common outdoor culture growing fifteen to eighteen inches in length and with very few seeds. Excellent for slicing; flesh white and very crisp. In pkts. only, each 15 cts.

## IOWA SEED CO.'S IMPROVED GROUND CHERRY.

Introduced by us last year, and the flattering testimonials we have received regarding it, as well as our own tests, convince us that it is an acquisition deserving a place in every garden in the country. Our attention was first called to it by an article which appeared in the Home Department of the *Chicago Inter Ocean*, from a correspondent in Minnesota, who had grown and been improving this little vegetable for over twenty-five years, and we will quote from what she says regarding it: "One thing which with me is one of the most important of all the fruits in my cookery, I do not recollect of ever seeing named in the Home, and that is the Ground Cherry (not the wild one). They grow well on almost any dry soil, are easier raised than the tomato, and are prolific bearers, and oh! such luscious fruit. For sauce they are excellent, and for pies I know of nothing that can equal them in flavor and taste. They are just splendid dried in sugar, and they will keep, if put in a cool, dry place in the shuck, nearly all winter. I have never seen them named in any seed catalogue, and from what I learn from friends in different parts of the country to whom I have sent the seeds, they seem to be very little known. No one after raising them once will ever make a garden again without devoting a small portion at least to the Ground Cherry. Mrs. Amy L. Baldwin."

We purchased all the seed that the above lady had, and have this year grown a large crop, so that we could supply all of our customers. It seems very strange to us that a vegetable possessing so many good qualities to recommend it, has not before been subjected to this improvement, and introduced to the public. We have put the price low so that you can try it.

Levi Bennett, of Carns, Keya Paha county, Nebraska, says: "In reference to the tame Ground Cherry described in catalogue, we have raised them, and they are all that they are represented to be."

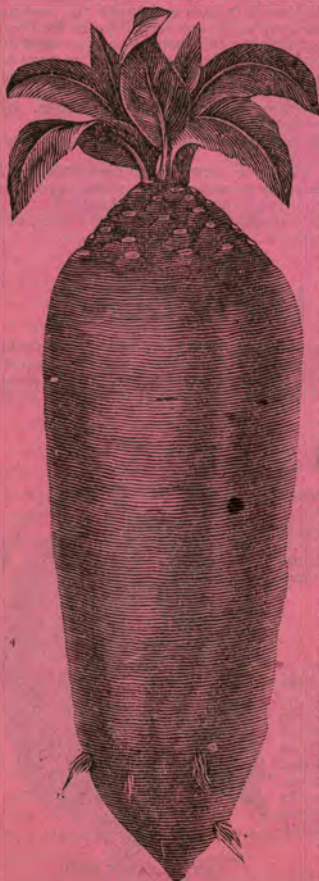
Mrs. H. E. Johnson, of Fairbury, Ill., says: "The Ground Cherry is most excellent for sauce, and made into preserves with sugar, pound for pound, it is fully as good as the strawberry in our estimation."

Per pkt. 10 cts.; ½ oz. 40 cts.; oz. 75 cts.

## NEW "DIGNITY" MANGEL.

Grows to a very large size, weighing thirty to fifty pounds, and will yield **forty-five tons per acre** with good cultivation.

If you want large crops of large Mangels of good quality, don't fail to try the Dignity. By express 5 lbs. for \$3.25; by mail per lb. \$1; ¼ lb. 30 cts.; oz. 10 cts.; pkt. 5 cts.



NEW DIGNITY MANGEL.



GROUND CHERRY.





New Short-Stem  
Drumhead Cabbage

THE FINEST STRAIN  
—OF—  
Late Drumhead  
IN CULTIVATION.

This improved variety, which we offer for the first time, **far surpasses** the old strain of Large Late Drumhead Cabbage, ripening **earlier**, with very short stock or stem, forming **larger** and **thicker** heads, of fine quality and the best of keepers. Owing to continued selection for several years past, this variety is remarkable for **reliability of heading**, every one who plants it can expect at least ninety-eight large solid heads from every one hundred plants. It is almost all head, and always sure to head. Per pkt. 10 cts.; oz. 25 cts.;  $\frac{1}{4}$  lb. 85 cts.; lb. \$2.75, postpaid.

## NEW ROSY GEM RADISH.

This **wonderful new radish** has won golden opinions in all sections of the country. The illustration is **perfect from nature**, and will give some idea of their great beauty. It is **absolutely the earliest radish** in cultivation. Their shape is perfectly globular, with rich deep scarlet top, blending into pure white at the bottom, **exceedingly tender, crisp and delicious, never becoming hollow or pithy, equally desirable for either the market or home garden**, and should be planted by everybody. Per pkt. 10 cts.; oz. 20 cts.;  $\frac{1}{4}$  lb. 60 cts.

## BIRD CANTELOPE MELON.

Mr. Bird, of Colorado, claims for his new Cantelope Melon extreme earliness, large size, fine flavor, and good keeping qualities. He states that he obtained the melon by crossing the Montreal and Bay View. The flesh is thick, light green in color, and of fine quality. They have been grown to weigh twenty-two pounds, measuring thirty-four by thirty-eight and one-half inches. Mr. B. F. Battles, of Massachusetts, writes: "It is double the size of the Montreal Cantelope, and fully equal to it in flavor. I would give ten dollars for a package of seed if I could not get it for less." Per pkt. 10 cts.; oz. 25 cts.





# Iowa Seed Co.'s Perfect White Spine Cucumber.



## CROP OF PERFECT WHITE SPINE CUCUMBERS.

[From a Photograph taken on our Adair Co. Seed Farm.]

For eight years we have been growing and improving this variety on our seed farm, and as a result we offer to our customers this improved strain, which has been pronounced by good judges as superior to either the Peerless or Arlington. It is certainly the most excellent variety that we are acquainted with. The fruit is of even and good size, straight and always well formed and symmetrical. When small it is deep green in color and of uniform shape, making it unexcelled for pickling. As it matures it turns to a clear, beautiful white, very handsome and showy for market, so different from the common White Spine, which is of a dirty yellowish brown color. Immensely productive. Try it, and you will be pleased. Per pkt. 5 cts.; oz. 15 cts.;  $\frac{1}{4}$  lb. 45 cts.; lb. \$1.50.



STOKES' EXTRA EARLY WATER MELON.

## Stokes' Extra Early Water Melon.

This new melon is, without doubt, the earliest of all. Our illustration, made from a photograph, shows their shape, which is nearly round, dark green skin, slightly mottled with white. The flesh is deep scarlet, remarkably solid, and in delicious sugary flavor is unsurpassed. Their average weight is about fifteen pounds. The seed is very small, being only about half the size of other melon seeds. They are also much more productive than the larger sorts, and for family use are quite unequalled. Per pkt. 10 cts.; oz. 25 cts.;  $\frac{1}{4}$  lb. 85 cts.

LA PORTE CITY, IOWA, August 31, '87.

The seeds bought of you last spring were tested by the side of those of several other seedsmen, and were perfectly satisfactory. To those wishing garden seeds, I would recommend your system as preferable to buying the uncertain seeds sold throughout the country on commission.

A. A. BATTERSON.



# ALL SEASONS CABBAGE.

This most excellent new variety is as early as Henderson's Summer, and makes considerably larger and harder heads that are not so liable to burst. It is very reliable for heading, and of superior quality. It is called "All Seasons" because it is a very superior variety to plant late as well as early, the thickness of the head making it a capital sort to keep through the winter. All should give this excellent Cabbage a trial. Per pkt. 10 cts.; oz. 40 cts.;  $\frac{1}{4}$  lb. \$1.50.

## IOWA SEED CO.'S NEW PERPETUAL WHITE SUMMER RADISH.

This variety introduced and offered by us this year for the first time, was obtained by selections from the St. Louis White Summer Turnip Radish, and is decidedly better than that well known variety. The crop of this which we had growing on our Adair Co. Seed Farm last year would delight any market gardener. They are of about the shape of the White Egg Turnip, pure white, sometimes tinged with purple, of uniformly good quality, crisp and brittle, and they keep longer in fit condition for the table than any variety we know of, hence their name, Perpetual White Summer. Per pkt. 5 cts.; oz. 20 cts.;  $\frac{1}{4}$  lb. 60 cts.



ALL SEASONS CABBAGE.

## BANANA MUSK MELON.



BANANA MUSK MELON.

At first Banana Melon was cultivated more as a curiosity than anything else, but the last three seasons has seen them bring such high prices—fifty cents to one dollar a piece—in the Philadelphia, New York and Boston markets, that they are certain, in the future, to prove a most profitable market crop. They attain a length of from eighteen inches to three feet three inches, and are from two to four inches thick. Flesh very thick, of a salmon color; in flavor simply remarkably delicious, and equal to almost any melon you have ever eaten. It looks almost like an over-grown banana, and, moreover, smells like one, hence the name. You will regret it if you do not include the "Banana" in your order. It is not only a curiosity, but in flavor is unquestionably fine. Per pkt. 10 cts.; oz. 25 cts.

## NEW KREAMER CELERY.

(See Illustration on Cover.)

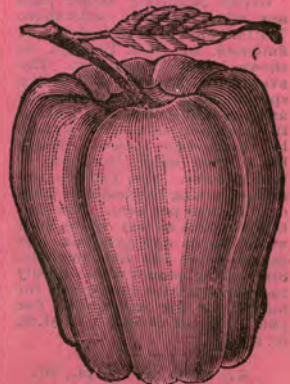
A novelty. This delicious Celery was originated by Mr. Kreamer, one of the most careful and successful Celery growers in the country. It is the result of a careful cross, and is one of the very earliest sorts we have ever seen, coming into market from the first to the middle of June. It grows very rapidly and is consequently extremely crisp and tender. It is of a close, compact, upright habit; bleaches readily and rapidly. In height it corresponds with "Henderson's Half Dwarf." The flavor is exquisitely fine and rich, partaking largely of a mild and delicious walnut taste. In packets only, each 15 cts.

## NEW PEPPER--MAMMOTH GOLDEN QUEEN.

THE LARGEST, HANDSOMEST AND MOST PRODUCTIVE OF ALL.

We feel fully warranted in making the above strong claims for this handsome new Pepper, growing to twice the size of Golden Dawn, and averaging a third larger than Ruby King, of the most perfect shape and uniform large size. Each plant ripens from twelve to sixteen perfect fruits, from eight to ten inches long, and four to five inches through. In color they are bright, waxy, golden yellow, and so mild in flavor they can be eaten like tomatoes, with pepper and vinegar.

We grew a splendid crop of these on our Adair Co. Seed Farm the past season, and we can recommend them most highly. Per pkt. 10 cts.; oz. 50 cts.



MAMMOTH GOLDEN QUEEN PEPPER.



## NEW EXTRA EARLY ECLIPSE BEET.



NEW EXTRA EARLY ECLIPSE BEET.

This is, without doubt, the best variety of the early sorts, except our New Market Gardener's, and as its excellencies become known, it is rapidly coming into favor. It is very early, maturing with the Egyptian. The bulbs are of a bright scarlet color, very smooth, globular in shape; quality is excellent and much better than the Egyptian. Highly esteemed by market gardeners. Since this variety was first introduced, it has shown a decided mixture in color and shape. By constant selection we have weeded this out, until this season our crop was the finest crop of beets we have ever seen. Per pkt. 5 cts.; oz. 10 cts.;  $\frac{1}{4}$  lb. 25 cts.; lb. 80 cts.

## EXTRA EARLY DES MOINES SWEET CORN.

(See Illustration on Cover.)

Since introducing the Early Des Moines to the public, we have received many flattering testimonials of its great value as an extra early variety. It is as early as any we have found, except the Cory, with ears much larger than most early sorts; supremely delicious flavor; very prolific. It has been grown and improved by some of the best market gardeners in this vicinity for something over twenty years, and since its introduction to the public by us, the demand for it has increased very rapidly, especially among market gardeners. It is not only an extra early sweet corn, but is an exceedingly productive sort, producing remarkably large, well-formed ears. The quality is not excelled in any sweet corn. Last season the demand was so great as to exhaust our supply before the trade was half over. Although we have harvested a splendid crop for this year, still we would advise our customers (and we want you all to give it a trial) to order early. Do not fail to try it. Per pkt. 10 cts.; qt. by mail 65 cts.

## THE EMERALD GEM MELON.

EXTRA EARLY, VERY PROLIFIC, ENTIRELY DISTINCT AND DECIDEDLY THE MOST DELICIOUS IN FLAVOR OF ALL MUSK MELONS.

The melons are about the size of the Nettle Gem, but, unlike that variety, the skin, while ribbed, is perfectly smooth and of a deep emerald green color. The flesh, which is thicker than in any other melon of the same size, is of a suffused salmon color, and ripens thoroughly to the *extremely thin* green rind. It is peculiarly crystalline in appearance, and so very juicy and rich that it almost drops to pieces (like a rich cake) when dipped out with a spoon. The flavor is *sweet and luscious beyond description*. On our trial grounds in Adair County, this melon surpassed ALL OTHERS in quality, and we are sure that all who grow the Emerald Gem this year will praise it as the finest-flavored melon they have ever tasted. The vines are hardy and thrifty in growth, very prolific, bearing the melons near the root; the melons mature *extremely early* and are *uniformly* of the most superb quality. Mr. Edward L. Coy, of Washington Co., New York, who has probably had more experience in growing all varieties of melons, including new varieties as they appeared, during the past thirty years, than any other grower in America, says that "the Emerald Gem ripened first of twenty-two varieties I had growing this season, and was VERY MUCH SUPERIOR IN QUALITY TO ANY OTHER I EVER SAW. But they are so *thick* seeded they yield but little seed. I VERILY BELIEVE IT TO BE THE VERY BEST MELON IN THE WORLD." Per pkt. 10 cts.; oz. 25 cts.

## MAMMOTH SILVER KING ONION.

Grows uniformly larger than any other Onion in cultivation. The bulbs are of attractive shape, flattened, but thick through, as shown by the illustration. The average diameter of well grown specimens is from five to seven and one-half inches, thus making the circumference from sixteen to twenty-two inches. Single bulbs often weigh from two to four pounds. The yield is immense, having reached nine hundred bushels per acre. The skin is a beautiful silvery white, flesh white, sweet and pleasant, and can be eaten raw like an apple. Silver King cannot be too highly recommended for family use, for market or for exhibition. Per pkt. 10 cts.; oz. 35 cts.;  $\frac{1}{4}$  lb. \$1.25; lb. \$4.25.



MAMMOTH SILVER KING ONION.

SAC CITY, IOWA, Sept., '87.

Well pleased with your seed. Had before been buying in Philadelphia.

S. S. ASHBAUGH.



Cleveland's  
Alaska.



CLEVELAND'S ALASKA PEAS.

We had some of these melons on exhibition at the Iowa State Fair, September 1st, which attracted great attention. Their earliness may be judged from the fact that they were grown from seeds planted after Clark's No. 1 Potatoes had been dug. The seeds are so small that they can be swallowed without the slightest inconvenience, being only about one-ninth the size of ordinary melon seed. In packets only, each 15 cts.

### JOHNSON'S CHRISTMAS WATER MELON.

A most valuable, new and distinct variety. They have been kept in a cool cellar for over four months, and cut open as fresh and delicious as the day they were picked. Their valuable keeping and shipping qualities are due to a peculiar, hard tenacious coating or outside enamelling of the skin, which also gives them an exceedingly handsome and fresh appearance, even after being kept or allowed to remain on the vines for months after ripening. Notwithstanding the rind is quite thin, they have been dropped from a height of four feet without breaking or bruising. The flesh is of a beautiful rich scarlet, very solid, and of delicious, sugary flavor. Seeds are few and small, and of a drab-white color. Aaron Paul, Mantua, N. J., writes: "My opinion of the Christmas Water Melon is, that it will prove the best shipper in the world. I have grown nearly all varieties of melons, and have never seen its equal. They could be barreled up and shipped to Europe with perfect safety. I kept some in perfect condition till New Year's. They are the most hardy and productive variety I have ever seen." Per pkt. 10 cts., oz. 25 cts.,  $\frac{1}{2}$  lb. 90 cts.

### UPLAND CRESS.

This new vegetable is destined to become a valuable and important acquisition. Is a hardy perennial, thriving on soil wet or dry. In early spring it is the first to make its appearance, grows with surprising and unequal rapidity, so that in a few days it is ready to use. The young and tender leaves can be eaten raw, or as a salad. It is excellent prepared same as lettuce, or when the leaves become large and plentiful, boiled as greens. In taste it is very pleasant, having the identical flavor of the Water Cress, so highly prized, and is agreeable to all. It is of robust nature and unparalleled hardiness. Fifteen degrees below frost will not change the color of its leaves nor damage it, and therefore the foliage of the summer growth can be used in winter, same as Kale. In pkts. only, each 10 cts.

WINTERSSET, IOWA, Sept., 1887.

Your seeds all grew and produced well that we got of you last spring. The best garden seeds we ever bought, and you may expect another order from us next spring.

J. J. DEVAULT.



UPLAND CRESS.

THE  
EARLIEST  
PEA GROWN.

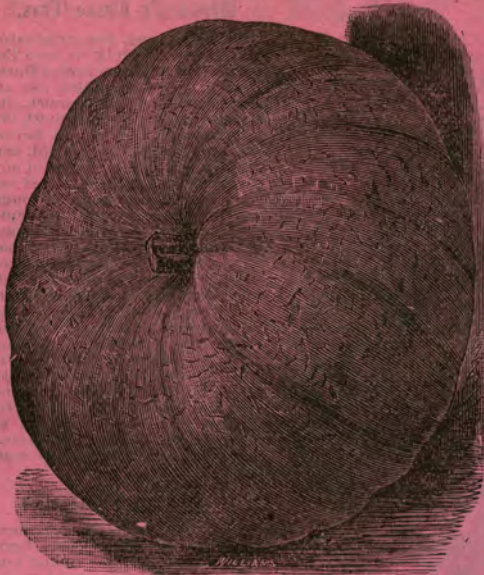
### Cleveland's Alaska Peas.

Mr. Cleveland, the originator of this new variety, is also the originator of the celebrated Rural New Yorker Pea, which has attracted such universal praise. He claims that this is the earliest, the most prolific, the best in flavor, the best keeper in the pod, and the best color when shelled of any early variety of Peas. This variety has been given a thorough test by our customers, and especially by the Des Moines Market Gardeners, and they claim that they average two days ahead of all other extra earlies, although the pods were somewhat smaller, so that when varieties like the Extra Early Challenge came in, the Alaskas were not so saleable. All gardeners will, of course, realize that the first few days are the cream of the market in Peas, and those who want to obtain the highest prices will not fail to plant the Alaska. Per pkt. 10 cts., pt. 35 cts., qt. 70 cts., all by mail postpaid.

### OEMLER'S TRIUMPH.

Prof. J. L. Budd, the eminent horticulturist of the Iowa Agricultural College, has called our attention to this variety of water melon, which he found were being shipped by the thousand up the Volga river in Russia. It is a variety originated in Central Asia, of medium size, dark glossy green color, and the sweetest of any variety we know of. Flesh is dark red, mottled with yellow.





KING OF THE MAMMOTHS PUMPKIN.

They ripen up evenly, and are entirely free from core. They have been pronounced by all who have tried them *unequaled in fine flavor* and table qualities. The form of the fruit is round and thick through, very smooth in specimens of medium to large size, while the extra large fruits are not so even in outline. The skin is thin, but rather tough, and consequently the tomatoes keep in fine condition much longer than most other varieties. The color is a very deep brilliant red; but its hybrid origin is shown in the fact that occasionally some fruits are lighter in color. Per pkt. 10 cts., oz. 35 cts.

### Early Prolific Marrow Squash.

This new variety is now offered by us for the first time. It has been proven by trials made under varying conditions of soil and climate by seed growers and gardeners in different parts of the country to be a most valuable acquisition. There is no variety for fall and winter that can compete with it in earliness and productiveness, the two most important features for the market gardener, while its attractive color—brilliant orange-red—good cooking and keeping qualities, make it popular with the consumer. A large crop of this variety which were being grown in Nebraska for seed last season, was the finest and handsomest field of squash we ever had the opportunity of seeing. Per pkt. 10 cts., oz. 30 cts.,  $\frac{1}{4}$  lb. 90 cts.

BOONSBORO, IOWA, August 30, '87.

I like your seeds, and think that Iowa gardeners would do well to purchase from you instead of sending so far east.

EDWARD A. BOGGS.



EARLY PROLIFIC MARROW SQUASH.

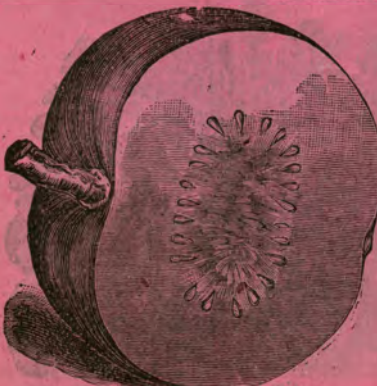
### NEW MEDITERRANEAN SQUASH.

This is a very valuable new fall and winter Squash, which we believe, from its numerous excellent qualities, will prove a most valuable acquisition. The accompanying illustration, from a photograph, is an exact representation, showing its handsome form. They grow about the same size as the "Hubbard," but owing to their **very thick flesh**, will weigh much heavier. The outside skin is quite smooth, and of a pleasing red salmon color, while the flesh is of a **beautiful rich yellow, very sweet, fine and floury**; its **rich flavor** is not approached by any other variety. The vines grow vigorously, are extremely hardy and very productive. As a keeper, they rank with our best winter sorts. Per pkt. 10 cts., oz. 25 cts.,  $\frac{1}{4}$  lb. 75 cts.

THOMAS, IOWA, May 30, '87.

The seeds I have bought of you have given good satisfaction. My cabbage plants are the admiration of the neighborhood.

T. H. HUMPHREY.



SECTIONAL VIEW OF MEDITERRANEAN SQUASH.



## NEW EXTRA EARLY CORY SWEET CORN.

This new variety is undoubtedly the earliest Sweet Corn in cultivation, being about one week earlier than the Marblehead, which, previous to the introduction of this, was generally acknowledged as the earliest. It grows a larger kernel and a larger and more marketable ear than the Marblehead, and will soon supplant that variety in our markets. Its habit of growth, productiveness and otherwise general appearance is very similar to the Marblehead, from which it is supposed to have been originally extracted, and over which it is a great improvement. It is well worth trial and has but to be tested to be appreciated. Per pkt. 10 cts., qt. by mail 65 cts., pk. \$2.25, bu. \$7.50.

OSKALOOSA, IOWA, June 27, '87.

Right here I wish to say that your seeds have been remarkably good.

W. H. COMSTOCK, *Market Gardener.*

DAYTON, IOWA, Feb. 12, 1887.

I have dealt with your firm for the past five years, and have always had satisfaction.

W. R. MARLING, *Market Gardener.*

CLERMONT, IOWA, Jan. 22, 1887.

I have used your seeds for the past three years and have recommended them to others.

O. PAULSON.



NEW EXTRA EARLY CORY CORN.

## NEW MUSK MELON—THE PRINCESS.

We offer this season, for the first time, a new Cantelope, or Musk Melon, of **extraordinary value**, under the above title of "**The Princess**," which, after a thorough trial for the past two seasons, has proven the best and richest in flavor, of over forty varieties tested. It is quite distinct from all other varieties, and possesses so many strong points of superiority, that it must speedily become the most popular variety for family and market purposes. Our engraving, made from nature, shows their shape, which is nearly round, with heavily netted dark green skin; the flesh is of a rich salmon color, and in flavor is **sweet and luscious beyond description**. They ripen early and grow to good size, frequently weighing eight to ten pounds each. Our supply of seed of this grand new melon is very limited. Per pkt. 15 cts.

MURRAY, IOWA, Sept. 8, '87.

I will just say that the seeds I got from you did very well considering the season. WM. RIGGLE.

GRINNELL, IOWA, Sept. 8, '87.

DAVID McBLAIN, *Market Gardener.*



I would say your onion sets are fifty per cent better than eastern ones planted alongside. And I was satisfied with all the rest of your seeds.

TIPTON, IOWA, Sept. 24, '87.

Your seed turned out first-class.

JOHN SPRINGER.

## New White Strasburg or Hospital Radish.

This new early variety, after being thoroughly tested, has proven to be superior in quality and size to any other known variety, and we can confidently recommend it as the best that has ever been offered in the line of early Radishes, being possessed of the finest flavor combined with brittleness and quick growth, producing in six weeks' time Radishes of a clear white color, from five to six inches long and three inches in diameter at the crown. But its distinguishing and most valuable characteristics are, that it will keep in eatable condition a long time before going to seed, making it the most profitable early variety for the market gardeners to cultivate. Per pkt. 5 cts., oz. 15 cts., ¼ lb. 40 cts., lb. \$1.25.

PANORA, IOWA, Sept. 8, '87.

The seed I purchased from you last spring was all No. 1; also the seed I got from you in 1884, 1885 and 1886 was all good.

JOHN A. GILSON, *Market Gardener.*

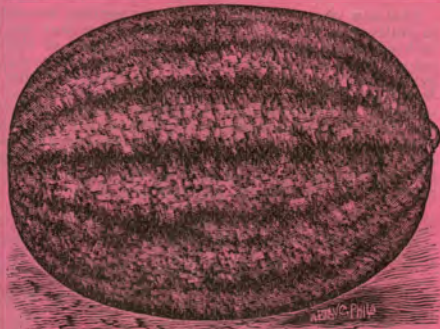


WHITE STRASBURG RADISH.



## Kolb Gem Water Melon.

To illustrate the great superiority of this melon over others, and show the esteem in which it is held in its native home, we have only to relate that in 1884, in Brooks county, Ga., there were planted 2,500 acres in melons for market, of which only 11 acres were of Kolb Gem. The next season out of the same number of acres planted (2,500,) all but 100 acres were Kolb Gem, the seed to plant which cost the growers from \$2.50 to \$4 per pound. We have undoubted authority for this statement, and this of itself should be abundant recommendation. The Kolb Gem melon grows of a more uniformly large size, opens up better, ships and keeps better, is more prolific and sells for nearly double the price in all the markets of the country than any other variety. They are suited for the North or South, East or West, near by or far away markets. In short they are perfection, and fill the bill in every particular. Every melon grower should get them at once. Our seed was grown for us this year, by the originator, R. F. Kolb, and you can depend on its quality. Per pkt. 5 cts.; oz. 10 cts.;  $\frac{1}{4}$  lb. 30 cts.; lb. \$1.00.



KOLB GEM WATER MELON.

For fine water melons the **Kolb Gems** beat them all; I had the finest melons from seed bought of you I have ever seen or raised, and I have raised all the kinds named in catalogue.

HAVANA, ILL., Sept. 6, 1887,

H. HILL.

## OAK LEAVED LETTUCE.

The distinguishing feature of this new variety of Lettuce, is in its oak shaped leaves, the broader part set to stem and pointed at the tip, thus giving it a very unique, handsome and attractive appearance. It is of quick growth, **has no bitterness of taste**; is possessed of fine flavor and extreme tenderness, and it is slow in running to seed; in fact will remain in head for a month before its shoots appear. Per pkt. 10 cts.; oz. 25 cts.;  $\frac{1}{4}$  lb. 80 cts.; lb. \$2.50.

## PAGE'S NEW STRIPED RICE POP CORN.

This splendid novelty, which is the result of a cross between the best White and Red varieties of Rice Pop Corn, we have been at work improving during the past five years, until now we have undoubtedly the best, handsomest and most attractive variety of Pop Corn in existence. We offered it to our customers last year for the first time, and are certain that it will prove a splendid acquisition with which all will be pleased.

The color is a clear translucent white, and each kernel is distinctly striped with bright crimson as shown in our illustration on the cover of this catalogue. The ears are of good size and well filled out; kernels are long and pointed, resembling rice.



OAK LEAVED LETTUCE.

It ripens earlier than any other variety with which we are acquainted; is unsurpassed in productiveness, extremely tender when popped, bursting out very large, white as snow, and of finest quality. All should try it. Per pkt. 10 cts.; pt. 40 cts.; qt. 65 cts.; all by mail prepaid.

## BECKERT'S CHARTIER RADISH.

Decidedly distinct in appearance from any Radish in cultivation. Its form is well defined by our engraving, the color at the top being crimson, running into pink about the middle, and from thence downward it is a pure waxy white.

We find the following record of it in our "Garden Notes": "Planted April 15th, ready for market June 1st. One of the finest Radishes yet introduced, of strong growth, beautiful form, fine flavor, slow to become strong or to run to seed. Remains fit for use longer than any other spring Radish. A splendid Radish for market gardeners." Per pkt. 5 cts.; oz. 10 cts.;  $\frac{1}{4}$  lb. 30 cts.; lb. \$1.00.

## PEANUTS

### Can be Grown in Iowa.

The variety which we offer is commonly called the "Red." They are a very desirable variety as early as the earliest, the most hardy, very prolific and of the best quality. Boys, here is a chance for you. Think of growing Peanuts in your own garden, and having plenty of them to eat. Plant soon as ground becomes warm, from two to three feet apart each way. In cultivating keep blossoms covered with dirt as much as possible. "Splendid to fatten hogs and children." Price per large package, 10 cts.; lb. post paid, 50 cts.

GRAND MOUND, IOWA, Sept. 17, 1887.

I take pleasure to inform you that I am perfectly satisfied with your seeds that I received from you. We are all pleased with Iowa Seeds, and think they are the best seed we ever bought.

EMILY STEMPLE.

DANVILLE, IOWA, August 31, 1887.

All the seeds we bought from you proved to be all good, can't be better, and the varieties are all the very best, at least we think so.

HENRY FUNCK.



BECKERT'S CHARTIER RADISH.



A  
FEW

## FLORAL NOVELTIES.

## GIANT TRIMARDEAU PANSIES.

An altogether distinct and beautiful new class of Pansy, the flowers of which are of very large size; some have measured four inches in diameter—in fact, larger than anything hitherto attained in the genus. Each flower is marked with three large blotches or spots, and stands well above the foliage; the plants may be expected to produce the same endless variety and beautiful shades of color that are found in other classes of this popular plant. They continue to bloom, profusely throughout the season. Colors are very rich and beautiful. All should try it. Per pkt. 35 cts.

## EDELWEISS.

This is the famous and true "Edelweiss" of the Alps, found growing there in the most inaccessible spots among the rocks, and gathered by tourists and others at great risk of life. The flower is considered the proper present for a bride from her fiancé on her wedding morn. The flowers are of downy texture, pure white and star-shaped, and easily cultivated. Per pkt. 20 cts.

## ABUTILON--THOMPSONI PLENA.

A very handsome new variety with perfectly double flowers, that resemble in form a double Hollyhock, of rich deep orange color, shaded and streaked with crimson. Leaves are beautifully mottled, golden yellow. Form is shown by the accompanying illustration. Plants postpaid 25 cts. each.



GIANT TRIMARDEAU PANSIES.

## IPOMEA NOCTIFLORA—Moon Flower or Evening Glory.

This plant has attracted much attention throughout the country. Although not a new variety, it has become popular recently. One lady says that it was trained on strings to a balcony twenty-five feet high and forty feet wide, and that from August to November it was covered *nightly*, and in dull days, with its white moon-like flowers from five to six inches in diameter. It has also a rich Jessamine-like odor at night. Another correspondent from Richmond, Va., writes that "he



ABUTILON--THOMPSONI PLENA.

set out a plant about May 15th, at the foot of a large dead tree, and by the end of August it had completely covered the tree (forty feet high) and was hanging in festoons of lovely white flowers from every branch." Plants postpaid, 25 cts. each.

## "LION'S TAIL." (Leonotus Leonuris.)

It blooms from September to December, and if successive propagations are made of it late in spring it can be got to bloom during the winter months, and it is a most valuable plant either for the sitting room or conservatory. The drawing conveys but a meagre idea of it, as the spikes are upwards of a foot in length and of a most vivid orange color, which, next to blue, is the rarest color we have among flowers. All lovers of flowers should have one or more of these strangely curious and attractive plants. Each postpaid 25 cts.



LION'S TAIL.



**FUCHSIA--PHENOMENAL.***(See Cut.)*

The largest Fuchsia that has yet come to our notice, even larger than Champion of the World; short tube and sepals of a rich reddish crimson color; corolla very full and double, of a beautiful azure violet, flaked with red. The accompanying illustration will give some idea of the extraordinary size and beauty of the flower. Too much cannot be said in its favor, and all who love flowers should have at least one plant. It will attract universal attention in any collection. Plants each 25 cts. postpaid.

**VERBENA, HENDERSON'S NEW MAMMOTH.**

The characteristics of this new strain of Verbenas, are that when well grown, every flower truss measures over nine inches in circumference, while the single florets are as large as a twenty-five-cent piece; the plant also has the peculiarity of being more vigorous in growth than the ordinary Verbenas. This great improvement in size is certain to increase the popularity of the Verbena. It is altogether distinct and surprisingly beautiful, the colors of which present the same wide range as the ordinary type. Per pkt. 25 cts.; strong plants per doz. \$1.

**Snow-Queen Candytuft.**

This is an entirely distinct species from Spain, and is of MARVELOUS BEAUTY. It is an ANNUAL and grows VERY RAPIDLY, quickly coming into bloom and REMAINING IN FULL BLOSSOM FOR THREE MONTHS. The very handsome tufted, pure white flowers are produced in such GREAT ABUNDANCE that each plant resembles a BALL OF SNOW, and would seem, at a little distance, to be a single mass of white.—It bears but little foliage, which is almost entirely invisible. The flowers are invaluable for bouquets. The Snow-Queen grows VERY REGULARLY, and is unequalled for ribbon beds, borders, and for massing alone in a bed, while even a single plant is a most attractive object. Per pkt. 10 cts.; 6 pkts. for 50 cts.



PHENOMENAL—THE LARGEST FUCHSIA IN EXISTENCE.

Per pkt. 10 cts.; 6 pkts.

**HENDERSON'S ZEBRA ZINNIAS.**

Without exception this is the most beautiful and brilliant selection of Double Zinnias we have ever seen. All the flowers produced from the seed we offer will not be striped, but a large percentage of the plants will be; those that are self-colored will be found brilliant in the extreme. An interesting characteristic of the ZEBRA ZINNIA is a tendency shown by some of the plants to throw out a branch on which the flowers are self-colored, while all the other blooms are variegated or striped, making a striking and unique contrast. The flowers of this selection are perfect in shape, and as evenly imbricated as a Camellia. Mixed colors, per pkt. 10 cts.

**FUCHSIA--FRAU EMMA TOPFER (Synonym—STORM KING).**

This variety is of German origin, and is undoubtedly the best double white Fuchsia ever sent out. It is of strong, graceful habit, and bears its pure white double flowers in the greatest profusion. Unlike many of the other white varieties, it is free from disease, and under ordinary care, will yield satisfactory results. Plants 25 cts. each, postpaid.

**GOLDEN DAWN GERANIUM.**

Those knowing the GILDED GOLD or PROGRESSION will admit that they are the most marked varieties leading to the coveted yellow we so much desire; the variety we now offer is far in advance of those excellent kinds. Artists in color who have for the past two seasons seen it in flower declare it to be of a RICH GOLDEN ORANGE SHADE of the most brilliant hue—we need not add another word as to the color. The flowers are of the largest size, most perfectly shaped, in large trusses, opening freely at all seasons; the habit and growth is as free and robust as in any other variety. Awarded Certificate of Merit by the New York Horticultural Society. Plants 30 cts. each, postpaid.

**PELARGONIUM—"Victor."**

This variety has been grown, we believe, almost exclusively by the florists in the vicinity of New York for the past two years to supply the critical New York trade; and we take great pleasure in offering it this season for the first time, knowing it will give great satisfaction. The ground color of the flower is bright cherry pink, white at the base of the petals. The two upper petals are dark crimson maroon, almost black. The flowers are produced very freely and are immense in size, single florets exceeding in size a silver dollar BY ACTUAL MEASUREMENT. Plants 30 cts. each, postpaid.

**DOUBLE GOLDEN MARGUERITE.**

Nothing could be more showy than this beautiful new plant, either as a pot plant or bedded out. This plant might well be called the "Shower of Gold," as it is a perfect mass of rich, golden yellow flowers, the whole year round. Well-grown plants having as many as one hundred and fifty flowers on them at once. Plants 30 cts. each, postpaid.



# THE Iowa Seed Company's

«SELECTED · LIST · OF»

## CHOICE VEGETABLE SEEDS.



### From Good Seeds Only Can Good Vegetables Be Grown.

We desire to call the particular attention of our friends and patrons to this list of Vegetable Seeds, which will be found to contain all the leading and most popular varieties in cultivation, including all novelties which have proven of merit in this section of the country. We are each year testing a large number of the novelties which are offered, many of which, while they may be of value in the latitude where they originated, are not at all desirable in this section of the country, and we therefore do not offer them.

We exercise the greatest care in the selection of our stock, growing all in Iowa, the garden spot of the United States, which we can to advantage, and those varieties which we do not grow ourselves we have obtained from the most responsible growers, and we have gone personally and inspected the crop while growing, in many instances, and the seeds are all carefully tested to prove their vitality before sending them out, and we are certain that a trial will prove to all that they cannot be excelled in purity and high quality by any.

As much as practicable we have put the varieties in rotation, in the order of their earliness, and those varieties in **CAPITALS** are such as we can specially recommend, and will be found best for general use. Those of our customers who are not acquainted with the varieties cannot go far wrong in selecting these.

The testimonials which we are constantly receiving from the largest and most critical Market Gardeners in this and other States are the best evidence that our Garden Seeds are **unsurpassed in quality** and our trade-mark "**Only one Quality, the Best**," is well taken.

**SEEDS BY MAIL POSTPAID.** In comparing our Catalogue with others, please remember that our prices include the prepayment of postage on all seeds by the packet, ounce, quarter pound and pound, and thus you have them delivered to your door at prices named in Catalogue. Beans, Peas and Corn will be sent by express or freight, unless thirty cents per quart for Peas and Beans and twenty-five cents per quart for Corn is added to prepay postage. It is usually cheaper and better to have them sent by express.

**PREMIUMS.** ON ALL ORDERS FOR SEEDS IN PACKETS the purchaser may select TWENTY-FIVE CENTS WORTH EXTRA for each ONE DOLLAR sent us. This premium applies only to seeds in packets, and cannot be allowed on orders for bulk seeds. Orders amounting to OVER FIVE DOLLARS for seeds in BULK may select seeds to the amount of ten per cent of order extra.

All who are willing to have their vegetable seeds sent by express or freight at their expense, may deduct fifteen cents for each pound of seeds, except Beans, Corn and Peas, which they order.

Please see our special list of novelties on the pink supplement to this Catalogue.

**Market Gardeners** and others who use large quantities of seeds should send for our special Market Gardener's price list.

**Hints to Gardeners.**—In all garden work it is very desirable to do everything on time. To the vigilant and industrious belongs the prize. In the spring of the year weeds grow with astonishing rapidity, and a day's time lost at this season equals much more than at any other. If you want to have a good garden, which you can enjoy and take pride in, commence early, fertilize and work the soil thoroughly, keep free from weeds, and give all crops the best of care. Don't try to cultivate too much ground, but plan your garden so as to have a rotation of crops, and you can often utilize the ground so as to obtain two or three crops each season.

"GET THE BEST AND GROW IT WELL."

The figures at the right of the column show the price of seeds per packet, postpaid.

#### ARTICHOKE—*Ger. Artischoke.*

Plant early in spring, in drills, two inches deep. In rows three feet apart and two feet in the row. They mature the second year. Must be protected in winter.

**French Green Globe**—Per oz. 25 cts. .... 5

**Artichoke Roots**—See miscellaneous list.

#### ASPARAGUS—*Ger. Spargel.*

One ounce will sow forty feet of drill.

Soak the seed twenty-four hours in tepid water; sow early in spring, in rows a foot apart; keep clean by frequent weeding and hoeing. At one or two years old transplant to permanent beds, in rows eighteen inches apart, and a foot apart in the rows. Cover four inches with light, rich soil. One or two years' time can be saved by buying the roots. See miscellaneous list.

**Conover's Colossal**—The most popular variety; per lb. 60 cts; ¼ lb. 20 cts; oz. 10 cts. .... 5

**"Hub" or Moore's Hybrid**—Remarkably uniform and large, very tender and rich in flavor; a specimen bunch of twelve stocks weighed over three pounds. Its large size and fine appearance insure quick sales. (See cut); per ¼ lb. 50 cts; oz. 15 cts. . . . 5



**Palmetto**—A new variety, originated in South Carolina. It is very early, yields well and is of good quality; per ¼ lb. 50 cts; oz. 15 cts. .... 5

**BEANS—Dwarf Bush Varieties—*Ger. Bohne.***

One quart will plant one hundred feet of drill. Dwarf or Bush Beans require no support, and should



be planted in drills; an inch and a half deep, and drop the beans three inches apart in the drills. Beans are tender annuals and cannot be planted till danger of frost is past. Keep clean, but do not hill up or hoe when wet. A sandy loam is most desirable.  
Note reduction in price of packets to five cents each.

**IF TO BE SENT BY MAIL**  
two cents per packet and thirty cents per quart must be added to prepay postage.  
*Special prices by the bushel to Market Gardeners and Cannerys.*



CLEVELAND'S VALENTINE BEAN.

**CLEVELAND'S IMPROVED RED VALENTINE**—Is said to be ten days earlier than any other strain of this well-known variety. In addition to this it is more robust and vigorous, and produces the true, round, curved pods very abundantly. Unexcelled in quality and in uniformity of ripening, nearly the whole crop can be taken at one picking; per pk. \$1.50; qt. 35 cts; pt. 20 cts.

**Early Valentine**—One of the very best; per pk. \$1.25; qt. 25 cts; pt. 15 cts.

**Early China Red Eye**—Great bearer; per pk. \$1.25; qt. 25 cts; pt. 15 cts.

**Early Yellow Six Weeks**—Per pk. \$1.25; qt. 25 cts; pt. 15 cts.

**Early Mohawk**—Good string bean, and very hardy; per pk. \$1.50; qt. 25 cts; pt. 15 cts.

**Early Refugee, or Thousand to One**—Very prolific; pods thick and fleshy; per pk. \$1.50; qt. 25 cts; pt. 15 cts.

**Large White Kidney, or Royal Dwarf**—Per pk. \$1.60; qt. 25 cts; pt. 15 cts.

**Large White Marrowfat**—Per pk. \$1.60; qt. 25 cts; pt. 15 cts.

**California Branch, or Prolific Tree**—This is a new and quite valuable variety for field culture, grows about twenty inches high, has stiff, upright branches, and bears immensely, sometimes yielding forty-five bushels to the acre. In a thorough test has averaged four hundred and sixty pods to each plant. The beans closely resemble the White Navy; per bu. \$4; pk. \$1.25;



qt. 25 cts; pt. 15 cts.

**DWARF HORTICULTURAL**—This has all the good qualities of the old Horticultural Pole bean, and is much easier to cultivate because of being a dwarf variety; per pk. \$1.60; qt. 55c; pt. 15c.

**Dwarf White Navy**—Not only a surer cropper and much more prolific, but of better quality than the common White Navy. Ripens early and evenly. Beans are small, oval, white and handsome; per bu. \$4; pk. \$1.25; qt. 20 cts; pt. 10 cts.

The Wax Beans are all stringless, and for the family garden are to be preferred to the above green podded varieties.

**NEW GOLDEN WAX**—In our opinion this is the best variety grown. It is about ten days earlier than the Black Wax. Pods are a beautiful golden yellow. As a snap bean it excels all others in tenderness and richness of flavor, and has the further merit of being one of the best shell beans grown for winter use; per pk. \$2; qt. 35c; pt. 20c.

**Jones' Ivory Pod-Wax**—Very productive, and in many respects one of the best Wax Beans yet introduced, and especially valuable for gardeners. A week earlier than Black Wax. Has very handsome long ivory colored pods. Try it; per pk. \$1.75; qt. 30 cts; pt. 15 cts.

**White Wax**—Pods waxy yellow, very tender; per pk. \$1.50; qt. 30 cts; pt. 15 cts.

**Black Wax**—Pods fleshy, waxy yellow; tender; per pk. \$1.50; qt. 30 cts; pt. 15 cts.

**BEANS—Pole, or Running Varieties**  
—Ger. Stangen-Bohnen.

One quart will plant 100 to 150 hills.  
These succeed best in clay loam, which should be liberally enriched with short manure in the hills, which are formed, according to the variety, from three to four feet apart; from five to six seeds are planted in each hill, about two inches deep. After planting all beans, be sure and firm the ground either with feet or roller.

**KING OF THE GARDEN LIMA**—See description with novelties on page 1; per pk. \$2.25; qt. 40 cts; pt. 20 cts.

**EXTRA EARLY JERSEY LIMA**—See description with novelties on page 1; per qt. 65 cts; pt. 35 cts.

**Horticultural Pole**—Productive, fine for Snap Beans or shelled; per pk. \$2.40; qt. 40c; pt. 20c.

**Giant Wax**—Pods waxy yellow; per pk. \$3; qt. 50 cts; pt. 25 cts.

**Large White Lima**—None equal the Limas as a shelled bean, but they are quite tender in this climate; per pk. \$2.50; qt. 40 cts; pt. 20 cts.

**Dreer's Improved Lima**—Pods short, broad, straight and thick. They are tender and nutritious, remaining green in the pod a long time; per pk. \$2.50; qt. 40 cts; pt. 20 cts.

**Crease Wax**—Wonderfully productive variety; pods, in clusters of from four to twelve. Very early; pods medium length and of the best quality as snaps; per pk. \$3.50; qt. 50 cts; pt. 25 cts.

**LAZY WIVES' POLE**—Pods measuring four and one-half to six inches in length, which are broad, thick, very fleshy and entirely stringless, are produced in great abundance. Unsurpassed for snap shorts. They stick well to the poles and have also done well planted among corn; per pk. \$3.50; qt. 50 cts; pt. 25 cts.

**Yard Long**—This is quite a curiosity, and withal, a bean of good quality. The pods are nearly three feet in length, and are produced in such abundance as to almost conceal the foliage; per pt. 50 cts.

**White Dutch Case Knife**—Matures in 60 days; pods long and flat; per pk. \$2; qt. 35 cts; pt. 20 cts.

**Scarlet Runner**—A favorite snap bean in Europe; valuable for table use or as an ornamental vine; per qt. 40 cts; pt. 20 cts.

CALLENDER, IOWA, Sept. 14, '87.  
I was much pleased with the seeds I received of you this year. They came up very nicely. The Mammoth Long Red Mangels are splendid. I expect to order more largely next spring. MINNIE WOODWARD.

TROY, DAVIS CO., IOWA, Sept. 20, '87.  
The seeds I purchased from you were good and true to name, and I would say to any one wishing to buy seeds, I can recommend them to the Iowa Seed Co. for genuine seeds. WM. CRAWFORD.



**BEETS—Ger. Runkel Rube.**

One ounce sows 50 feet of drill; 4 to 6 pounds for one acre.

For early, sow as soon as the ground can be worked, and about the middle of May for general crop, in drills fifteen inches apart and one and a half inches deep. As the plants grow, thin to six inches in drills. The young plants make excellent greens. The seed will germinate more freely if soaked in warm water for twenty-four hours before sowing; but care should be taken not to plant soaked seed in very dry ground; the soil should be a deep rich loam.



**Egyptian Turnip—**

This variety fully sustains its reputation as the finest and earliest beet grown; very deep red, tender and delicious. (See cut.) per

lb. 65 cts; ¼ lb. 25 cts; oz. 10 cts. . . . . 5  
**NEW EXTRA EARLY ECLIPSE**—See description with novelties on page 6; per lb. 80 cts; ¼ lb. 25 cts; oz. 10 cts. . . . . 5

**IOWA SEED CO.'S NEW MARKET GARDENERS**—The best variety in cultivation. See description in novelty list page 1; per ¼ lb. 75 cts; oz. 25 cts. . . . . 10

**BASTIAN'S EXTRA EARLY RED**—This is a turnip-shaped Beet of great value for gardeners. It follows the Egyptian very closely, and is considerably larger; bright red color; per lb. 75 cts; ¼ lb. 25 cts; oz. 10 cts. . . . . 5

**Dewing's Improved Blood Turnip**—Fine form and flavor; per lb. 65c; ¼ lb. 20c; oz. 10c. . . . . 5

**Extra Early Bassano**—Turnip-shape; flesh white, circled with rose color; tender and juicy; keeps well when sown late; per lb. 60 cts; ¼ lb. 20 cts; oz. 10 cts. . . . . 5

**Early Blood Turnip**—The standard early sort; good for winter; per lb. 60c; ¼ lb. 20c; oz. 10c. . . . . 5

**Extra Long Dark Blood**—Standard winter; smooth, tender and sweet; per lb. 50c; oz. 10c. . . . . 5

**Swiss Chard**—For greens only; per lb. 75c; ¼ lb. 25 cts; oz. 10 cts. . . . . 5

**SUGAR BEETS AND MANGELS.**

Use 4 to 6 pounds of seed to an acre.

Extensively grown in all parts of the country for feeding stock. Sow in April or May, in drills three feet apart, and thin to ten inches in the row. If your soil is deep and mellow, try the long varieties; if shallow, the round kinds will do better. No crop pays the Farmer or Stock Raiser better than the Mangels; 1,000 bushels to the acre is an ordinary yield, while with good culture 2,333 bushels have been grown to this amount of ground. It costs, counting labor and everything, about \$50 to raise an acre of Mangels and gather and store them. This, for an ordinary yield, is a cost of only five cents per bushel. Write for special terms on large quantities.

**White French Sugar**—Excellent cropper; very sweet; per lb. 50c; oz. 10c. . . . . 5

**LANE'S IMPERIAL SUGAR**—An improvement on the above; very sweet and productive. (See cut.) per lb. 70c; ¼ lb. 20c; oz. 10c. . . . . 5

**Long Red Mangel**—Standard sort, grows mostly above ground; per lb. 60c; oz. 10c. . . . . 5

**MAMMOTH LONG RED, or NORBOTH GIGANT**—Roots grow to an enormous size and of very good texture; per lb. 60c; ¼ lb. 20c; oz. 10c. By express or freight, not prepaid, 5 lbs. \$1.85; 10 lbs. \$3.25. . . . . 5

**Carter's Orange Globe**—Per lb. 60c; ¼ lb. 20c; oz. 10c. . . . . 5

**Red Globe**—Same as above, except color; per lb. 60c; ¼ lb. 20c; oz. 10c. . . . . 5

**NEW KINVER YELLOW GLOBE**—This splendid variety is of greater girth at the top or shoulder than at the middle of the bulb, whence it



gradually tapers to a perfect tap root. It is of superb quality and an enormous cropper, the great weight of eighty-four tons per acre having been grown of it, and single bulbs weighing forty-five pounds each; per lb. 75c; ¼ lb. 25c; oz. 10c. . . . . 5

**Golden Tankard**—A comparatively new variety of great value. One of the most nutritious in cultivation, and highly prized for milch cows because of the rich color given the butter; per lb. 60c; ¼ lb. 20c; oz. 10c. . . . . 5

**DIGNITY**—See description in novelty list, page 2. By express, 5 lbs. for \$3.25; by mail, per lb. \$1; ¼ lb. 30c; oz. 10c. . . . . 5

**BORECOLE, or Kale—Ger. Blatter-Kohl.**

One ounce will produce about 3,000 plants.

The Kales are more hardy than Cabbage, and are improved by frost. They do not form heads, but the leaves are very tender, and preferred by some to Cabbage. Sow from middle of April to the beginning of May; cultivate same as Cabbage.

**Dwarf German Green**—Per ¼ lb. 35c; oz. 10c. . . . . 5

**Tall Curled Scotch**—Per ¼ lb. 35c; oz. 10c. . . . . 5

**BROCCOLI—Ger. Broccoli.**

One ounce will produce about 3,000 plants.

Growth and habit like the Cauliflower, except that it is more hardy and the heads are not as compact. Use and cultivation same as Cauliflower.

**Early Purple Cape**—A popular sort; heads well and is very hardy; per oz. 40c. . . . . 5

**Early Large White**—Very valuable early sort; large size; per oz. 40c. . . . . 5

**BRUSSELS SPROUTS—Ger. Sprossen-Kohl.**

One ounce will produce about 3,000 plants.

Of the Cabbage family, producing numerous small heads on the stem, as well as a Cabbage-like head at the top. Use and cultivation same as Winter Cabbage; per oz. 20c. . . . . 5

**CABBAGE—Ger. Kopfkohl.**

One ounce of seed will produce about 3,000 plants.

The Cabbage requires a deep rich soil and thorough working, to insure good, solid, full-sized heads. Sow early sorts in hot-beds in February or March, or in open ground as soon as it can be worked. Later or winter crops, in May or June, in shallow drills, six inches apart. When the plants are four inches high, transplant into richly manured ground; the early kinds two feet apart, the fall and winter varieties three feet apart. To prevent the splitting or bursting of Cabbages, the "American Garden" recommends to go frequently over the ground and start every Cabbage that appears to be about to mature, by pushing them over sideways. Heads thus started are said to grow to double the size they had attained when about to burst.

**MARKET GARDENERS**, it is of the utmost importance that you should have the best grade of Cabbage seed. We have used great care this year in selecting our stock, and can heartily recommend it to you. Use **Slug Shot** for Cabbage worms.

**Very Early Etampes**—A new extremely early Cabbage from France. It has medium-sized pointed heads, that are always hard and solid, and of remarkable fine quality. It will pay all market gardeners to try this; per lb. \$2; ¼ lb. 65c; oz. 20c. . . . . 5

**LANDRETH'S EARLIEST**—A very early Cabbage with well-formed, cone-shaped head. Excellent quality. In a test of 77 varieties this was the first to mature; per lb. \$3; ¼ lb. 80c; oz. 25c. . . . . 5

**Extra Early York**—A well-known and old favorite variety; per lb. \$1; ¼ lb. 30c; oz. 10c. . . . . 5

**EARLY JERSEY WAKEFIELD**—The favorite variety with market gardeners; early and sure to head. The very best early Cabbage grown for the family garden. Our stock is extra choice American grown; per lb. \$2.50; ¼ lb. 65c; oz. 20c. . . . . 5

**OPINION OF A CRITICAL MARKET GARDENER.**

Greenfield, Iowa, Sept. 4, '87.

I wish to say that your Long Island stock of Jersey Wakefield is by all odds the best early Cabbage I have ever had, and I have this year tested all the early varieties of Cabbage, including most of the novelties, but your Jersey Wakefield proved earliest and best of all. I had Tillinghast's No. 1 Jersey



Wakefield, Puget Sound stock, and only forty per cent formed heads, and three weeks later than your seed. Early Etampes, bought of you, was a week later, but very nice; ninety-two per cent formed heads. Market Gardeners' Beet is best Beet out for early or late crop.

M. KURTZWEL, Market Gardener.

**LOW'S PEERLESS EARLY**—This new variety nearly equals the Jersey Wakefield in earliness; is much larger (weighing from 12 to 15 pounds) very solid and uniform. In quality it is unsurpassed by any other sort, early or late. In the test of this variety on our trial grounds, it proved to be very early, heads cone-shaped, and 98 per cent of the plants produced solid heads; per lb. \$3.50; ¼ lb. \$1; oz. 35c

**Early Wyman**—Allied to the Jersey Wakefield; much larger, but not quite so early; fine quality; per lb. \$2; ¼ lb. 65c; oz. 20c

**Henderson's Early Summer**—A superior variety of recent introduction. Ten days later than Wakefield and much larger. First-class; try it; per lb. \$2; ¼ lb. 60c; oz. 20c

**Winnigstadt**—Cone-shaped summer sort; if sown late, good for fall and even winter; a sure header and good keeper; per lb. \$1.40; ¼ lb. 45c; oz. 15c

**Fottler's Improved Brunswick**—Superior second early sort; heads large and solid; makes a good winter sort sown late; per lb. \$2.75; ¼ lb. 80c; oz. 25c

**ALL SEASONS**—See description on novelty sheet, page 6; per ¼ lb. \$1.50; oz. 40c

**SUREHEAD**—As its name implies, it is very reliable in heading; heads are very solid, of good shape and large size; per ¼ lb. 75c; oz. 25c

**Early Deephead**—Makes a larger and thicker head than Fottler's and hence keeps better over winter. Has been grown to weigh over 80 pounds; per ¼ lb. \$1; oz. 35c

**CHASE'S EXCELSIOR**—Medium early, following the Henderson's Summer in close succession. It is not equaled by any medium early Cabbage we are acquainted with for sure, solid heading, which is the highest recommendation for a Cabbage which must mature in the trying heat of summer. Another remarkable feature is that it never cracks. Planted the first of July, it is an elegant winter variety. We recommend all to try it. Our seed is pure and true; per ¼ lb. \$1; oz. 30c

**NEW SHORT STEM DRUMHEAD**—See description in novelty list, page 3; per lb. \$2.75; ¼ lb. 85c; oz. 25c

**PREMIUM FLAT DUTCH**—This old and well-known variety is, without doubt, the finest winter Cabbage in cultivation, excepting only our NEW SHORT STEM DRUMHEAD; the heads are large and solid, of a bluish green color, slightly flattened on the top; is of fine and well-flavored quality; first-class keeper; sure header. The stock we offer cannot be excelled; per lb. \$1.50; ¼ lb. 50c; oz. 15c

**Large Late American Drumhead**—Similar to last; per lb. \$1.50; ¼ lb. 50c; oz. 15c

**Stone Mason Drumhead**—Very reliable, compact heading fall and winter variety; per lb. \$2.25; ¼ lb. 65c; oz. 20c

**Marblehead Mammoth**—Largest of all; have in some instances been grown to a weight of over 90 pounds, and the heads of such size that they would not go into a two-bushel basket. It is a good Cabbage for exhibition at fairs when grown under high culture, but as a rule it is too loose headed and uncertain for a main crop; per lb. \$3; ¼ lb. 85c; oz. 25c

**Fine Red Pickling**—Deep red color, medium size, solid; much better for pickling than the large red varieties; per lb. \$2.25; ¼ lb. 65c; oz. 20c

EARLY, SAC CO., IOWA, Sept. 19, '87.

Will say that the seeds I bought of you last spring were all right, and every seed grew. The Pumpkins I raised from your seed are the largest I ever saw and the wonder of the natives. You shall have our order next spring.

A. L. BRYAN.

EDGEWOOD, IOWA, Sept. 8, '87.

I am very much pleased with the seeds purchased of you. All have done extremely well.

MRS. F. C. MADISON.



**PERFECTION DRUMHEAD SAVOY**—

Heads large and very finely curled. Finest Savoy in cultivation. The Savoys should be more generally grown. They are greatly superior in flavor to the other varieties; per lb. \$2; ¼ lb. 65c; oz. 20c

**Cabbage Plants**—See list of Vegetable Plants.

**CARROT—Ger. Mohre.**

One ounce will sow 100 feet of drill; 3 to 4 pounds for one acre.

For early crops, sow in spring soon as the ground can be worked, in drills fifteen inches apart, covering one-half inch; thin plants to three or four inches in the row. For field culture, rows should be of sufficient distance to admit of the use of a horse cultivator; sow seed in May. A light sandy loam deeply tilled is best.

Carrots form a nutritious, succulent food in the winter for horses, cattle, sheep and pigs. Cows fed on Carrots, alternately with Mangels and Ruta Bagas, give a notably increased yield of milk. In feeding, the roots should be washed, sliced and heavily dusted with Indian meal or bran, together with a proper portion of salt.

**Early French Forcing**—The earliest variety; valuable for forcing; excellent quality; per lb. \$1.25; ¼ lb. 35c; oz. 10c

**Early Horn**—Favorite sort, much esteemed for summer use; per lb. \$1; ¼ lb. 30c; oz. 10c

**DANVERS**—Very smooth and handsome; rich dark color, and from its length is easier to dig than the Long Orange. It is in form about midway between the Long Orange and Short Horn class, growing generally with a stump root. It is claimed that this variety will yield the greatest bulk with the smallest length of root of any now grown. This is a choice Carrot for family use. (See cut;) per lb. \$1.25; ¼ lb. 35c; oz. 10c



**NEW HALF-CORELESS OR CARENTON**—A

new, very early variety, without core. Skin smooth; flesh fine-grained, rich colored and of excellent

flavor for table use; per lb. \$1.25; ¼ lb. 35c; oz. 10c

**OXHEART OR HALF-LONG GUERANDE**—(Stump-rooted)—This new French Carrot is one of the most valuable of all recent introductions, either for family use or market. It is an intermediate between the Half-Long and Horn varieties, attaining a diameter of three to four inches at the neck, and of most beautiful shape and rich orange color. It is of extra fine quality and very productive; per lb. \$1.25; ¼ lb. 40c; oz. 15c

**IMPROVED LONG ORANGE**—The standard sort for field culture, and very desirable for table use; roots large and of good quality; per lb. 90c; ¼ lb. 25c; oz. 10c

**Large White Belgian**—Very productive; grown almost exclusively for stock, for which it is highly recommended; per lb. 75c; ¼ lb. 20c; oz. 10c

**Altringham**—A large and fine flavored red sort; per lb. 75c; ¼ lb. 20c; oz. 10c



**CAULIFLOWER—Ger. Blumen-Kohl.**

One ounce will produce about 3,000 plants.

This is acknowledged by all to be one of the most delicious of vegetables. Any soil that will grow Cabbage will grow Cauliflower, as their requirements are very similar; but as the product is more valuable, extra manuring and preparation of the soil will be well repaid. Culture same as Cabbage, except that they need a cool and moist atmosphere and should be watered during dry weather. As the flower heads appear, the large leaves should be broken down over them to shield them from the sun and rain. Our stock of seed is the best imported. Don't fail to try it. These are the best varieties:

**VICK'S IDEAL DWARF**—The introducer claims superiority on the following points, viz: *Reliability of Heading, Size and Solidity of heads, earliness and protective habit of inner leaves.* The experience of many gardeners expressed in the highest terms of satisfaction, assures us that they have not claimed too much in its favor. One gardener says of it:

"The first Cauliflower brought into this market this spring, I raised from seed of the 'Ideal' variety. I have never had finer Cauliflowers." Another says: "I find the heads of the 'Ideal' Cauliflower average larger than those of any other variety I have raised this year, and also such heads of 'Ideal' as are apparently the same size as other sorts, invariably outweigh them." Plants very dwarf, outer leaves erect; can be set closely; equally good for early or late planting; per oz. \$3.50; ¼ oz. \$1.75

**HENDERSON'S EARLY SNOWBALL**—Throughout the country this is considered not only the earliest of all Cauliflowers, but it is more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable for market gardeners. Dr. E. L. Startevant says that this variety stands at the head in his test of 38 kinds, forming first head in 97 days, and above the average in size. Our stock is grown by the originator, and cannot be excelled; per oz. \$5; ¼ oz. \$1.40

**Early Favorite**—Much like the above, only smaller; per oz. \$3.50; ¼ oz. \$1

**Extra Early Erfurt**—Valuable for forcing; first quality; per oz. \$4.50; ¼ oz. \$1.25

**Early Paris**—Well known; per oz. 75c

**Early London**—Standard English sort; per oz. 75c

**Lenormand's**—Best for late use; per oz. \$1

**Cauliflower Plants**—See list Vegetable Plants.

**CELERY—Ger. Seleri.**

One ounce will produce about 6,000 plants.

This we consider one of the luxuries of the garden. No one who has once used it will do without it, and as it usually is so expensive in the market, the following simple directions are given, by which every one who has a garden can supply themselves with it:

For first crop sow the seeds early in hot-beds, or in boxes in the house, or later in open ground, in rich moist soil, covering the seed very lightly. When plants are about three inches high, transplant to four inches apart each way in a rich, well pulverized bed.

For main crop seed should be sown in the open ground as soon as it is fit to work in April, and kept carefully free from weeds until the time for transplanting in June or early July.

The tops are shorn off once or twice before planting, so as to insure "stocky" plants, which suffer less on being transplanted. After the ground has been nicely prepared, lines are struck out on the level surface, three feet apart, and the plants set six inches apart in rows. If the weather is dry at the time of planting, great care should be taken that the roots are properly "firmed."

Keep clear of weeds until about the middle of August, when it will be time to begin earthing up. Draw the soil up against the plants with a hoe as closely as possible, firming it enough to keep plants in an upright position and prevent them from spreading. Later in the season the blanching process must be finished by the spade, which is done by digging the soil from be-

tween the rows and banking it up clear to the tops on each side of the row of Celery.

Some of the growers for the Des Moines market blanch the plants by placing a length of drain tile over them, others use a roll of pasteboard for the same purpose, and this saves the labor of banking.

**KREAMER**—See description on novelty sheet, page 5; in packets only, each.....15

**GOLDEN DWARF**—A new variety of decided merit. When blanched, the heart is of a rich, golden color, excellent quality, good keeper; per lb. \$2.25; ¼ lb. 65c; oz. 20c.....5

**Sandringham Dwarf White**—Very popular, excellent quality; per lb. \$1.50; ¼ lb. 50c; oz. 15c.....5

**HENDERSON'S HALF DWARF**—The favorite market variety; close habit, solid, crisp and tender; per lb. \$2; ¼ lb. 60c; oz. 20c.....5

**Crawford's Half Dwarf**—Much like the above; per lb. \$2; ¼ lb. 60c; oz. 20c.....5

**Large White Solid**—Per lb. \$2; ¼ lb. 65c; oz. 20c.....5

**Boston Market**—Very tender and crisp; per lb. \$1.75; ¼ lb. 50c; oz. 15c.....5

**WHITE PLUME**—The stalk and portions of its inner leaves and heart are naturally white and becomes fit for use by simply tying it up closely with soft twine. It is solid and crisp, possessing a rich nutty flavor, while its peculiarly beautiful centre leaves make it very ornamental as well as toothsome. This variety does not blanch during the hot weather, but as soon as the weather becomes cooler it shows its self-blanching character; per lb. \$3; ¼ lb. \$1; oz. 30c.....5



**NEW GOLDEN SELF-BLANCHING**

This new variety has fully realized all claimed for it, and is pronounced by all a great acquisition. It grows to very large size, but is very stocky and robust. The stalks grow vigorously with large ribs, very thickly and closely set. It is entirely self-blanching, without any banking-up or covering whatever, even the outer ribs assuming a yellowish-white color of a very fresh and pleasing appearance. The heart is of a beautiful golden-yellow color, very large, crisp and solid. Unlike other self-blanching varieties, it is an extra good keeper—keeping well all winter—and of fine, sweet flavor. On the market stall or table it is unequalled in handsome and striking appearance; seed very scarce; per oz. 65c.....10

**Dwarf Crimson**—Considered by some superior to the white sorts. This is by far the best of all the red varieties; per lb. \$2.50; ¼ lb. 75c; oz. 20c.....5

**Turnip-Rooted, or Celeriac**—Per lb. \$2; ¼ lb. 65c; oz. 20c.....5

**Old Celery Seed**—For flavoring; per lb. 50c; ¼ lb. 15c; oz. 5c.....5

**Celery Plants**—See list of Vegetable Plants.

GOLDFIELD, IOWA, Sept. 6, '87.

The seeds I got of you gave good satisfaction.

O. C. MCINTOSH.



**CHERVIL**—*Ger. Gartenkerbel.*

One ounce will sow 100 feet of drill.

**Curled**—Leaves used in soups and salads; Cultivated like parsley; per oz. 20c..... 5

**CHICORY**—*Ger. Cichorie.*

One ounce will sow about 15 square feet.

**Large Rooted**—

Used as a substitute for Coffee. Cultivate as Carrots. Take up the roots in the fall, cut into small pieces and put away to dry. When wanted for use, it is roasted and ground like Coffee; per ¼ lb. 35c; oz. 10c..... 5



**COLLARDS**—*Ger. Blatter-Kohl.*

One ounce will produce about 3,000 plants.

**Georgia**—Sow seed in May; transplant and treat as Cabbage; per ¼ lb. 75c; oz. 20c..... 5

**CORN SALAD, or FETTICUS**—*Ger. Lammersalat.*

One ounce will sow about 20 square feet.

A delicious winter Salad. Sow early in September in drills, quarter of an inch deep and six inches apart. Just before cold weather, cover with straw or leaves; per ¼ lb. 30c; oz. 10c..... 5

**CORN**—*Garden Varieties*—*Ger. Welschkorn.*

One quart will plant 200 hills; one peck will plant one acre in hills.

Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; five to six grains to the hill, and when up, thin them out, allowing three or four of the strongest plants to remain. Give thorough cultivation. For a succession, plant every two weeks until mid-summer. Notice reduction in price of packets.

IF TO BE SENT BY MAIL

Two cents per packet and thirty cents per quart must be added to prepay postage.

Special Prices by the Bushel to Market Gardeners.

**Extra Early Adams**—Although not sweet, this variety is much esteemed by gardeners, as it produces ears suitable for eating before any of the kinds of Sweet Corn; per pk. \$1.25; qt. 25c; pt. 15c. 5

**EXTRA EARLY DES MOINES**—See description with novelties, on page 6; per pk. \$1.75; qt. 35c; pt. 20c..... 5

**NEW EXTRA EARLY CORY**—See description with novelties, on page 9; per pk. \$1.40; qt. 30c; pt. 15c..... 5

**Early Marblehead**—This variety has with us proved to be on an average nearly a week earlier than the Early Minnesota; per pk. \$1; qt. 25c; pt. 15c..... 5

**EARLY MINNESOTA**—The standard early corn; ears fair size and uniform and very sweet; per bu. \$3.50; pk. \$1; qt. 20c; pt. 10c..... 5

**PERRY'S HYBRID**—The largest early twelve rowed Sweet Corn in the market. Our crop this year, grown in the southern part of this state, matured only eight days later than the Cory, and the yield was more than double—being about *sixty bushels*. It does not waste any time making stalks, its object is for ears, large ones and plenty of them, in the shortest possible length of time. In spite of the large competition, we obtained the **FIRST PREMIUM** on this variety at the **IOWA STATE FAIR** in 1887; per pk. \$1.75; qt. 35c; pt. 20c..... 5

**Crosby's Early**—A standard medium early variety; per pk. \$1; qt. 20c; pt. 10c..... 5

**Moore's Concord**—Produces handsome ten-rowed ears, low on the stalk, and comes into use immediately after the Crosby's; per pk. \$1; qt. 20c; pt. 10c..... 5

**Amber Cream**—A delicious new variety which is sure to grow in favor; per pk. \$1.35; qt. 25c; pt. 15c. 5

**Hickox**—The favorite variety for canning; used quite largely by canning companies throughout the country; per pk. \$1; qt. 20c; pt. 10c..... 5

**Black Mexican**—A black-grained variety; one of the sweetest of all kinds; per pk. \$1.30; qt. 25c; pt. 15c..... 5

**STOWELL'S EVERGREEN**—The standard variety throughout the United States. Our stock of this variety is very choice, better we think than any ever offered before in this state. The above is a good illustration of an average ear; per bu. \$3.25; pk. 90c; qt. 15c; pt. 10c..... 5

**EGYPTIAN SWEET**—Very prolific, and by all who have tried it believed to be the best late Sweet Corn in cultivation; per bu. \$3.75; pk. \$1.20; qt. 20c; pt. 10c..... 5

**Asylum**—A good large late Sweet Corn; per pk. \$1; qt. 20c..... 5

**Mammoth Sweet**—The largest variety grown; per bu. \$3.50; pk. \$1; qt. 20c..... 5

**Sweet Corn for Fodder**—We can furnish either early or late; per bu. \$2.25; pk. 75c; qt. 15c. 5

**POP-CORN.**

It pays to raise Pop-Corn as a general crop. It is a sure crop, and the demand always exceeds the supply.

**PAGE'S NEW STRIPED RICE**—The best of all for family use. See description in novelty sheet, page 7, and illustration on cover; per qt. 60c; pt. 30c..... 10

**Fine White Rice**—A standard variety, which always brings the best price in the market; per pk. \$2; qt. 30c..... 5

**Fine Red Rice**—Per pk. \$2.50; qt. 35c..... 5

**Smooth White**—Per pk. \$2; qt. 30c..... 5

**FIELD CORN.**

See list of varieties under heading of Miscellaneous Farm Seeds.

**CRESS, or PEPPERGRASS**—*Ger.*

*Kresse.*

One ounce will sow about 16 square feet.

**Extra Curled**—A well-known salad. Sow thickly and at intervals during the season; cover seed slightly; per ¼ lb. 25c; oz. 10c..... 5

**True Water**—One of the most delicious of small salads. Will only grow where its roots are covered with water. Sow the seed along the borders of running water and cover lightly; per oz. 25c..... 10

**Upland Cress**—The new vegetable. See description on novelty sheet. In packets only, each..... 10

**CUCUMBERS**—*Ger. Gurke.*

One ounce will plant 50 hills; two pounds will plant one acre.

Cucumbers succeed best in a rich loamy soil. For first early, sow in hot-beds, upon pieces of sod or in small flower pots six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop, plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past, thin to four strong plants in a hill. For pickling, plant in June. Sprinkle vines with plaster or air-slacked lime to protect from bugs. Slug Shot will kill the bugs.

**Early Russian**—Very early and productive; quite hardy; per lb. \$1.25; ¼ lb. 35c; oz. 10c..... 5

**Early White Spine, or Boston Market**—The standard variety here. When small it is of a bright green color, and is excellent for pickling. It also makes a choice variety for slicing; per lb. 90c; ¼ lb. 25c; oz. 10c..... 5

**IOWA SEED CO.'S PERFECT WHITE SPINE**—An improvement on the above. See description with novelties, page 4; per lb. \$1.50; ¼ lb. 45c; oz. 15c..... 5





**Early Cluster**—Grows in clusters, is extremely productive and of good quality. Our seed of this variety was grown on our home farm, and we think it cannot be excelled in purity; (See cut;) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**NICHOLS' MEDIUM GREEN**—A new variety which

is the result of careful selection. Fruit of medium length, nearly cylindrical, very uniform in shape and of good color when young; per lb. \$1.25; ¼ lb. 35c; oz. 10c..... 5

**Early Frame, or Short Green**—One of the best, well-known; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**GREEN PROLIFIC**—One of the best pickling sorts. Its characteristics are its very uniform growth, seldom yielding fruit too large for pickling, and its immense productiveness; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Boston, or Jersey Pickle**—Is used almost exclusively by the market gardeners near Boston for pickling, and it makes as good short pickles as any on the list; per lb., \$1; ¼ lb., 30c; oz. 10c..... 5



**IMPROVED LONG GREEN**—Old standard sort; crisp, tender, good flavor; per lb. 90c; ¼ lb. 30c; oz. 10c..... 5

**ASTRO**—A new large variety. See description with novelties, page 2. In packets only, each..... 15

**Russian Netted**—This is really a curiosity in the Cucumber family, and withal a variety of excellent quality; per ¼ lb. 65c; oz. 20c..... 5



**SNAKE**—A singular and remarkable curiosity, growing sometimes to a length of six feet, and coiled up like a snake. In packets only, each..... 10

**London Long Green**—One foot in length, flesh greenish white; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**West India Gherkin, or Burr**—For pickling only; per ¼ lb. 75c; oz. 20c..... 5

**DANDELION**—*Ger. Pardeblum.*

*One ounce will sow about 100 feet of drill.*

Those who only know the Dandelion as the persistent weed of our roadsides and lawns, know no more of its real value than one who has only seen the poisonous wild parsnip or carrot knows of the value of these vegetables. *The improved variety makes one of the earliest and best greens in cultivation.* It is used also for blanching for salad. The roots when dried and roasted are often employed as a substitute for coffee. The seed should be sown in May or June, in drills half an inch deep and twelve inches apart, and the earth firmly pressed over the seed. The plants will be ready for use the following spring.

**American Improved**—Per ¼ lb. \$1.25; oz. 40c. 10

**Thick-Leaved French**—Seven hundred bushels of this sort have been grown on three-fourths of an acre; per ¼ lb. \$1.25; oz. 40c..... 10

**EGG PLANT**—*Ger. Eierpflanze.*

*One ounce will produce about 1,000 plants.*

A tender plant which should be started quite early in a hot-bed or box in the house, which must be kept

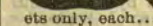
warm. Late in spring transplant to open ground, two and a half feet apart each way in warm, rich soil.

**Early Long Purple**—Hardy and productive, six to eight inches long; per ¼ lb. 90c; oz. 25c... 5

**IMPROVED NEW YORK**—Extra large and choice, fine flavor. (See cut;) per ¼ lb. \$1.50; oz. 40c..... 10

**Black Pekin**—The fruit of this handsome variety is jet black, round in form and very solid; per ¼ lb. \$1.50; oz. 40c..... 10

**NEW JERSEY IMPROVED**—An improvement on the Improved New York. Gardeners should try this. In packets only, each..... 15



**ENDIVE**—*Ger. Endivien.*

*One ounce will sow 60 square feet.*

**Extra Curled**—Sow early and thin, cover slightly. Soon as large enough, thin to nine inches apart. When leaves are eight inches long, tie them together with string near the top to blanch; this must be done when quite dry. Before cold weather, take up for winter, being careful to leave a small amount of dirt around the roots. Store in dry cellar with plenty of fresh air; per ¼ lb. 75c; oz. 20c..... 5

**GARLIC**—*Ger. Knoblauch.*

A specie of Onions propagated by offsets; used for flavoring soups, stews and other dishes. Divide a bulb in small parts and plant them in early spring, in rows one foot apart, and from two to five inches between the plants in the rows. The crop matures in August, when it is harvested like the Onion.



**Garlic Sets**—Per lb. 50c, postpaid; by express, per lb. 30c.

**GOURDS.**

The following four varieties will be found quite serviceable in any household. No one would think, without having tried them, of the many uses they can be put to. Cultivate as Cucumbers, or they may be trained over lattice-work or utilized to cover stumps or fences.

**Dipper Gourd**—Makes a more light and convenient dipper than can be bought; per oz. 20c..... 5

**Dish Cloth Gourd, or Sponge Cucumber**—The seed of this variety is enveloped in a sponge-like cloth, which is excellent for the purpose described; per oz. 50c..... 10

**Sugar Trough**—Very convenient for buckets, baskets, nest boxes, etc. Sometimes grow so large as to hold ten gallons each; per oz. 20c..... 5

**Nest Egg**—Very closely resembles an egg, and makes an excellent substitute for a nest egg. Housewives will also find them handy in darning stockings; per oz. 25c..... 5

**Mixed Varieties**—Per oz. 25c 5



*For Ornamental Gourds, see Flower Seeds.*

**IMPROVED GROUND CHERRY.**

The fruit has a pleasant strawberry-like flavor and is much esteemed, and by some considered indispensable for pies, sauce, etc., both green and dry. When dried they resemble raisins somewhat. See description with novelties, page 2; per oz. 75c; ¼ oz. 40c..... 10



## HERBS.

See list at end of Vegetables.

## HORSE RADISH SETS.

See list of Vegetable Plants.

KALE, OR BORECOLE—*Ger. Blatter-Kohl.**One ounce will produce about 3,000 plants.*

This most excellent vegetable deserves to be more generally cultivated, being harder than Cabbage, and furnishing most excellent greens during winter and early spring. It is also a splendid winter food for poultry. Is quite hardy and is improved by frost. Cultivate same as Cabbage. For winter, sow in September and treat as Spinach, giving it a light covering of straw or litter to protect from severe cold.

**Dwarf German Green**—Best for winter greens; per lb. \$1;  $\frac{1}{4}$  lb. 35c; oz. 10c..... 5

**Tall Curled Scotch**—Per lb. \$1;  $\frac{1}{4}$  lb. 35c; oz. 10c..... 5

KOHL RABI—*Ger. Kohlrabi.**One ounce will sow a 200 foot drill.*

An excellent vegetable, intermediate between the Cabbage and turnip. Sow in rows in May or June, eighteen inches apart, thinning to eight inches between the plants. Cook as Turnips.



**Early White Vienna**

Flesh white and tender, best market sort; per lb. \$2;  $\frac{1}{4}$  lb. 65c; oz. 20c..... 5

**Early Purple Vienna**

Per lb. \$2;  $\frac{1}{4}$  lb. 65c; oz. 20c..... 5

LEEK—*Ger. Lauch.**One ounce will sow 100 feet of drill.*

This is a branch of the Onion family, and is preferred by some to the Onion. Sow early in spring, and when plants are three or four inches high, thin to eight inches apart. Hoe the earth well up to the stalk to blanch it.



**London Flag**—Very hardy; per  $\frac{1}{4}$  lb. 50c; oz. 15c..... 5

**LARGE ROUEN**—A

favorite variety with market gardeners. Largest and most uniform of all; per  $\frac{1}{4}$  lb. 75c; oz. 20c..... 5

LETTUCE—*Ger. Lattich.**One ounce will sow 120 feet of drill.*

Probably no vegetable is more universally used than Lettuce, and to be fully appreciated must be brought to the table fresh and unwilld. As it requires but little room, and is of the easiest culture, there are few families that cannot have it direct from the bed.

The quality of Lettuce depends largely upon a rapid and vigorous growth. Sow in hot-beds in March, and in open ground as early as it can be worked, thinly in drills one foot apart. For a succession, sow every three weeks during the season.

The soil should be rich and mellow. Thin out plants as they grow, so that the plants left to head will stand ten to twelve inches apart in the rows.

**Early Curled Silesia**—Large loose heads, excellent flavor; per  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**Early Curled Simpson**—An improved variety of the preceding; per  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**TENNIS BALL, or Boston Market**—One of the earliest heading varieties, being very compact and solid, very best for hot-bed culture, but it runs to seed so rapidly that for out-door culture it is not recommended; per  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**Early Prize Head, Improved Head or Imperial Head**—Heads well, tender, slow running to seed, first-class for summer, leaves dark, reddish brown; per  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**HUBBARD'S MARKET**—This variety of Lettuce is one of the best forcing Lettuces ever introduced. Its merits are: Good size, compact, although not solid heads, fine flavor, hardiness, and long keeping quality after being cut. Market gardeners often pack in boxes for shipment, and frequently remaining a week after cutting, is found to be in good salable condition; per  $\frac{1}{4}$  lb. 65c; oz. 20c..... 5

**ALL THE YEAR ROUND**—Excellent, very large, dark green color, quite curly, don't form solid

heads, but is very compact. As its name indicates, it is good for all seasons; per  $\frac{1}{4}$  lb. 60c; oz. 20c.... 5



**HANSTON**—Extra large and solid heads, light green. This is the favorite variety with Des Moines market gardeners; per lb. \$1.25;  $\frac{1}{4}$  lb. 35c; oz. 15c. 5

**Ice Drumhead**—Much liked in some localities. Is better for the hot-bed than out of doors; per  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**Black Seeded Simpson**—Resists the heat very well; per  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**SALAMANDER**—(New)—Excellent variety for summer use, as it withstands the heat and drouth admirably and is very slow in running to seed. Forms immense heads 12 to 24 inches in diameter, although not very solid, attains size early, light green; per  $\frac{1}{4}$  lb. 50c; oz. 20c..... 5

**GREEN FRINGED**—It is of a very delicate and peculiar shade of green, the inner parts of the leaves white, with the edges beautifully cut and fringed. Its ornamental character makes it very desirable for garnishing and table decoration. Quality is not as good as some other varieties, but its handsome appearance makes it the best selling variety for



market men. There were times during the past summer when it was about the only variety which could be sold on the Des Moines market; per  $\frac{1}{4}$  lb. 60c; oz. 20c..... 5

**DEACON**—See description with novelties, page 1; per oz. 30c..... 10

**Oak-Leaved**—See description with novelties, page 10; per oz. 35c..... 10

**Golden Heart**—Produces heads of very large size, firm and solid, and grows quickly. Outer color dark green, leaves delicately curled; within the heart is a beautiful, rich, golden yellow; quality excellent; per  $\frac{1}{4}$  lb. 60c; oz. 20c..... 5

**Silver Ball**—Produces a beautiful head, very firm, solid and compact, with handsomely curled leaves. It comes early and stands a long while before running to seed. A most excellent variety, both for early spring and summer use; per  $\frac{1}{4}$  lb. 60c; oz. 20c..... 5

**New Tomhannock**—This forms a beautiful plant 10 to 12 inches high by 9 to 10 inches across. The edges of the outer leaves are of a glossy reddish bronze, handsomely wrinkled, within the leaves are almost white. In our test it made large heads quicker than any other variety, but the leaf stalks are too large and cumbersome; per oz. 25c..... 5

**BURPEE'S HARDHEAD**—Very large, dark brownish green, forms good solid heads of good quality. Grows slowly and stands heat well; per  $\frac{1}{4}$  lb. 75c; oz. 25c..... 5

**Curled India**—Resembles Drumhead, but later; of fine quality; per  $\frac{1}{4}$  lb. 60c; oz. 15c..... 5

**Paris White Cos**—Tender, brittle, mild flavor, very superior quality, must be tied up or blanched under pots to develop its good qualities; per  $\frac{1}{4}$  lb. 50c; oz. 15c..... 5

**MIXED VARIETIES**—Seed of about twenty early, medium and late sorts mixed together, thus giving Lettuce for the table during the entire season, and giving an opportunity to examine all the leading varieties with but little expense; per oz. 25c..... 10

## MARTYNIA—(For Pickles.)

*One ounce will plant 100 hills.*

Plant in May, in hills four feet apart. The seed pods which are used quite largely for pickling, should be gathered when they are green and tender; per  $\frac{1}{4}$  lb. 75c; oz. 25c..... 10



**MELON—Musk—Ger. Melone.**

One ounce will plant about 80 hills; two pounds to the acre.

The soil best adapted to the culture of Melons is a warm, rich, sandy loam. Plant in hills five or six feet apart each way, ten to twelve seeds in each hill. When they begin to vine, thin out, leaving only four of the most thrifty. As Melons are very sensitive to cold, they should not be planted till the settled warm weather sets in, in this latitude about the middle of May. Cultivation should commence as soon as the plants appear above the ground, and be kept up once a week until the vines interfere too much.

**Jenny Lind**—A small, very early Melon of most delicious flavor; nearly round, flattened at the ends; distinctly ribbed and finely netted, green fleshed. (See cut.) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5



**GOLDEN NETTED GEM**—A very early, rather small round Melon, with thick light green flesh of luscious flavor. Very productive, of a handsome appearance and very uniform in size; keeps well after picking; lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Orange Christiana**—One of the earliest and most delicious of all varieties; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**EMERALD GEM**—A splendid novelty. See description on page 6; per oz. 25c..... 10

**THE PRINCESS**—See description with novelties, page 9. In packets only, each..... 15

**MILLER'S ORANGE CREAM**—A splendid novelty of 1887. Entirely different from any other Melon on the list; shallow ribbed, thin rind, finely netted; the flesh varies from a light green to a rich salmon in color, owing, we believe, to its being a hybrid; flavor is very sweet; per oz. 25c..... 10

**Skillman's Fine Netted**—Flesh green, sugary and excellent quality; lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Green Citron**—Per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Green Nutmeg**—Fruit oval, good size, rich, exquisite flavor; a general favorite; per lb. 90c; ¼ lb. 25c; oz. 10c..... 5

**BAY VIEW**—This variety which is so rapidly growing in favor is of large size, deliciously rich, sweet and luscious. Our crop of this did magnificently this year, and our seed cannot be excelled. (See cut.) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Casaba**—One of the largest and best Musk Melons in cultivation. Flesh green, very sweet, melting and delicious; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Improved Cantelopo**—Large size, flesh light green, most delicious flavor, superior for market or private gardens; per lb. 90c; ¼ lb. 25c; oz. 10c..... 5

**Surprise**—Thin, cream colored skin, thickly netted; flesh deep salmon color, very thick and highly flavored; surprisingly productive; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**BIRD'S CANTELOPE**—See description with novelties, page 3; per oz. 25c..... 10

**IMPROVED EARLY HACKENSACK**—A new variety and one of the best grown; oz. 25c. 10

**NEW BANANA**—See description with novelties, page 5; per oz. 25c..... 10

**Turk's Cap, or Hackensack**—Large size, deeply ribbed and netted; flesh green, thick and of delicious flavor; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Montreal Market**—Uniformly of large size, averaging from fifteen to twenty pounds in weight. Flesh very thick and of fine flavor; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**MELON—Water—Ger. Wasser-Melone.**  
One ounce will plant about 60 hills.

It is of the utmost importance that all Melon growers should have the very best of seeds, and those who have given our seeds a trial in the past are so well pleased that they continue to use them. It pays to have the best.

Plant in hills eight feet apart and cultivate same as Musk Melon.

**STOKES' EXTRA EARLY**—See description novelty sheet, page 4; per ¼ lb. 85c; oz. 25c..... 10

**VICK'S EARLY**—A new variety of medium..... 10

size; flesh bright pink, solid and sweet; said to be the earliest variety in cultivation; per lb. \$1.25; ¼ lb. 35c; oz. 10c..... 5

**Phinney's Early**—Flesh deep red, superior quality, early and productive, valuable market variety; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**PEEPLISS, or Ice Cream**—(White Seeded) —Of unquestionable quality, medium size, thin rind, flesh bright scarlet; lb. 30c; ¼ lb. 25c; oz. 10c..... 5

**TRUE DARK ICING, or Ice Rind**—There are two distinct types of this melon; this one, which we consider the best, is known as the dark icing. It is a very solid sort with a thin rind, and possesses a most delicious flavor; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**OMELER'S TRIUMPH**—See description in novelty list; page 7. In packets only, each..... 15

**KOLB'S GEM**—See description in novelty list, page 10; per lb. \$1; ¼ lb. 30c; oz. 10..... 5

**JOHNSON'S CHRISTMAS**—See description in novelty list, page 7; per ¼ lb. 90c; oz. 25c..... 10

**Long Light Icing**—This strain of the Icing Melon while not as well liked here as the Dark Icing, is still very popular in some sections; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Landreth's Boss**—A new large, long Melon, which is unexcelled in quality and very showy in appearance. You will be pleased with it; per lb. \$1; ¼ lb. 30c; oz. 10c..... 6

**True Georgia Rattlesnake, or Gipsy**—Fruit large, oblong, striped; flesh red, of fine quality. An excellent variety for market; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Haskell's Excelsior**—Flesh bright red, very superior quality, large size, frequently weighing over forty pounds; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Mountain Sprout**—Lb. 75c; ¼ lb. 25c; oz. 10c..... 5

**Mountain Sweet**—Per lb. 75c; ¼ lb. 25c; oz. 10c..... 5

**Orange**—A curiosity. The rind of this variety when ripe, peels off from the flesh like the skin of an orange, leaving it a very handsome fruit to place on the table; per ¼ lb. 45c; oz. 15c..... 6

**Cuban Queen**—This is certainly one of the largest Melons in cultivation. The skin is beautifully striped, light and dark green; flesh is dark red, very solid, crisp and sugary. They always command an extra price in the market because of their great size and handsome appearance. (See cut.) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Black Spanish**—Large size, almost round, skin dark green, flesh red; per lb. 75c; ¼ lb. 25c; oz. 10c..... 5

**SCALY BARK**—The rind is very thin, yet so tough and strong that the Melons will bear any amount of handling without bursting or cracking open. The flesh is light crimson in color, very tender and of excellent flavor. The average weight is thirty-five pounds. (See cut.) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**PRIDE OF GEORGIA**—Is a dark green mottled color; nearly oval, ridged like an orange, grows partly upon its end; is firm, will ship well, and when well cultivated in good soil, attains a large size, and is very sweet and crisp; lb. \$1.15; ¼ lb. 35c; oz. 10c..... 5

**MAMMOTH IRON CLAD**—The claims of this new variety are said by the introducer to be, first, uniformly larger in size than any other variety known, the whole crop averaging 50 pounds each, while hundreds of specimens weighed from 60 to 70 pounds each; second, its great attractiveness, the shape being the most perfect that could be desired, being oblong and carrying its full size well towards the ends; third, quality equal if not superior to any other sort, never falling to cut solid, with a dainty red color; rich, sugary flavor, and a melting deliciousness that is sure to captivate; fourth, firmness, making the best shippers in the whole list; per lb. \$1.25; ¼ lb. 35c; oz. 10c..... 5

**Sculptured Seeded**—Cream colored flesh; per lb. \$1.25; ¼ lb. 35c; oz. 10c..... 5

**Colorado Preserving**—The best melon for preserving; per lb. \$1.50; ¼ lb. 40c; oz. 15c..... 5

**Citron**—For preserves; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Colorado Preserving**—The best melon for preserving; per lb. \$1.50; ¼ lb. 40c; oz. 15c..... 5

**Citron**—For preserves; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Citron**—For preserves; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5





**ONION—Ger. Zwiebel.**

One ounce will sow about 100 feet of drill; four pounds will sow one acre.

This is, with perhaps the one exception of Cabbage, the most important crop grown both in market and family gardens, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than in Onions. There is more

**MONEY IN ONIONS**

grown from the seed than in almost any other crop. Those grown from our select

**HIGH GRADE ONION SEED**

possess the following qualifications of superior merit:

- 1. Earliness, Productiveness, Reliability,
- 2. Perfect Shaped Bulbs, Solidity, Fine Texture and Keeping Qualities. Sowing seed to produce large Onions is the cheapest, easiest, best and most satisfactory way.

Large Onions can easily be grown the first year from the seed by obtaining our seed which is all northern grown, and new, crop of 1887. It won't pay you to use the cheap imported or southern grown seeds which produce a large proportion of scullions and Onions that will not keep well. Poor seed, even as a gift, is the dearest the planter can use. We want you to try OUR seed, and have therefore put the price down to as low a rate as good, reliable seed can be sold at.

**CULTURE**—As early as the ground can be worked in the spring, sow the seed in drills fourteen inches apart, covering one-half inch. They should be in rich sandy soil, which is as free from weeds as possible. Commence hoeing soon as rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing, weed carefully and thoroughly by hand. When the tops die, pull and spread evenly over the ground; stir or turn until fully dried, then cut the tops one-half inch from the bulb.

**FOR PICKLES OR SETS**—Good ground should be prepared as above, and the seed should be sown very thickly in broad drills, about forty pounds to the acre.

See description of tools for the cultivation of Onions on another page.

**LANG'S HAND WEEDER**—Gives the best satisfaction as a small hand tool in the culture of Onions, and we can recommend it to all. Don't fail to include one in your order.



Price, 25 cents each, or \$2.60 per dozen; or postpaid for 30 cents each.

**EXTRA EARLY BLOOMSDALE PEARL**—Earliest of all. Pearly white translucent, growing almost with the rapidity of a Radish, form flat, flavor very mild. *Wonderfully fine.*

Try it; per lb. \$5; ¼ lb. \$1.50; oz. 40c..... 10

**Extra Early Red**—Very early, matures about two weeks before the Wethersfield; per lb. \$2.25; ¼ lb. 65c; oz. 20c..... 5

**White Portugal, or Silver Skin**—Matures early; very mild flavor, medium size and generally preferred for table use; not a good keeper; per lb. \$3; ¼ lb. 90c; oz. 25c..... 5

**LARGE RED WETHERSFIELD**—The standard sort throughout the west, as they are more hardy, and immense crops can be raised when more tender varieties would fail. They grow to a large size, fine form, skin deep purplish red, moderately fine grained and strong flavor. Very productive, and an excellent keeper. For shipping purposes it is considered one of the best, as it will bear almost any amount of handling without any apparent injury; per lb. \$1.80; ¼ lb. 50c; oz. 15c..... 5

**YELLOW GLOBE DANVERS**—Although not quite so large as the above, we consider it a better Onion in every way for general use; per lb. \$2.00; ¼ lb. 65c; oz. 20c..... 5

**LARGE WHITE GLOBE**—The handsomest market variety we have ever seen. Large size, oval form, very even, mild and pleasant flavor, good keeper, out-sells every other variety; per lb. \$3; ¼ lb. 90c; oz. 30c..... 5

**Southport Red Globe**—Differs from above only in color; per lb. \$2.25; ¼ lb. 65c; oz. 20c..... 5

**Yellow Dutch**—Per lb. \$2; ¼ lb. 60c; oz. 20c..... 5

**IMPORTED VARIETIES.**

Most of these varieties grow to an enormous size, and are more mild flavored than any of the above. We recommend all to try at least a few for their own home use, or for early market. They do not keep well in this climate.

**MAMMOTH SILVER KING**

—See description on novelty sheet; lb. \$4.25; ¼ lb. \$1.25; oz. 35c..... 10

**NEW MAMMOTH SPANISH KING**

This is the celebrated Spanish fancy Onion, which is annually imported from Spain, and sold by confectioners and fruit dealers in all the larger cities at from 25 to 50 cents each. They do well in this country, and have been grown here to the weight of **3-4 pounds**. Skin is of a rich yellow color, while flesh is pure white, sweet, mild and tender; per ¼ lb. \$1.50; oz. 50c..... 10

**NEW QUEEN**—A very nice extra early silver-skinned Onion, the best keeper of the foreign sorts. Very mild flavored, and excellent for pickling; per lb. \$3; ¼ lb. 90c; oz. 25c..... 5

**GIANT ROCCA**—Very large, frequently weighing three and one-half pounds. Globular form; mild, delicate flavor; per lb. \$2.25; ¼ lb. 65c; oz. 20c..... 5

**Marzago**—Large silvery Onions; per lb. \$3; ¼ lb. 80c; oz. 20c..... 5



No. 1, Extra Early Red; No. 2, Large Red Wethersfield; No. 3, Yellow Globe Danvers; No. 4, White Portugal; No. 5, Extra Early Pearl; No. 6, White Globe.



**Large Red Tripoli**—Very large and mild flavored; per lb. \$3; ¼ lb. 80c; oz. 20c..... 5  
**Small White Silverskin**—For pickling. This is of small size, silvery white, and used almost entirely for pickling, on account of its small size, handsome appearance and mild flavor; per lb. \$2.25; ¼ lb. 65c; oz. 20c..... 5

**ONION SETS.**

The sets should be planted as early in spring as the ground is dry enough to work; plant them in rows one foot apart, with sets three or four inches apart. When raised from sets, the Onions can be used in the green state very early, or they will be ripened off by July. Sets are produced by sowing the seeds very thickly in beds or drills, and whenever the tops die down, the small bulbs or sets are gathered and kept spread thinly in a cold, dry cellar or loft, until the following spring. The Potato and Top Onions are grown *only* from the bulbs. Price by the peck subject to change of market.

**White Onion Sets**—Very scarce; per pk. \$2.50; qt. 40c; or postpaid qt. 65c.

**Yellow Onion Sets**—Per pk. \$1.50; qt. 25c; or postpaid qt. 50c.

**Red Onion Sets**—Per pk. \$1.50; qt. 25c; or postpaid qt. 50c.

**Potato Onions**—Per pk. \$1.75; qt. 30c; or postpaid qt. 50c.

**Top, or Button Onions**—Per pk. \$1.50; qt. 25c; or postpaid qt. 45c.

**Perennial, or Winter Onion Sets**—May be set out in either the spring or the fall. They are perfectly hardy, the first in market for spring use, and are coming into general use among the market gardeners, who usually set them out about September 1st; per pk. \$1.50; qt. 25c; or postpaid qt. 45c.

**MUSTARD—Ger. Senf.**

One ounce will sow about 75 feet of drill.

A pungent salad, used sometimes with Cress, also elegant for greens. Sow thickly in rows, and cut when about two inches high.

**White English, or London**—Per lb. 50c; ¼ lb. 20c; oz. 10c..... 5

**Brown or Black**—Per lb. 50c; ¼ lb. 20c; oz. 10c 5

**NASTURTIUM—Ger. Indianish Kresse.**

One ounce will sow 20 feet of drill.

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. Sow in drills one inch deep after the ground has become warm.

**TALL**—Mixed colors; per ¼ lb. 50c; oz. 15c..... 5

**DWARF**—Mixed colors; per ¼ lb. 75c; oz. 20c.. 5

**OKRA, or Gumbo—Ger. Essbarer.**

One ounce will sow about 80 feet of drill.



Its long pods when young are used in soups, stews, etc., and are believed to be very nutritious. Sow at the usual time of all tender vegetables, in drills two inches deep, setting the plants from two to three feet apart.

**New Improved Dwarf**—Very productive; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**PARSNIPS—Ger. Pastinake.**

One ounce will sow 200 feet of drill; five pounds to the acre.

Sow early in spring in good rich soil, which has been ploughed deep, in drills fifteen inches apart, covering half an inch. Thin to five or six inches apart in rows. They are improved by the frost.

**LONG SUGAR, OR HOLLOW CROWN**

—Best for either table use or stock feeding, very tender, sugary, excellent flavored, large sized, white and smooth; per lb. 60c; ¼ lb. 20c; oz. 10c.. 5

**Sutton's Student**—Fine flavored; per lb. 75c; ¼ lb. 25c; oz. 10c..... 5

**IOWA SEED CO'S IMPROVED GUERNSEY**

—This is a greatly improved and wonderfully fine strain of the Guernsey Hollow Crown Parsnip. It is strictly a table variety, and has no resemblance to what is called the Guernsey Stock Parsnip, which is not good for table use. The roots do not grow as long as the Hollow Crown, but are of a greater diameter, and more easily gathered. It is a very heavy cropper; the roots are smooth, about 12 inches in length, and with a very deep hollow crown and small top. The flesh is fine grained and sweet all the way through, and of excellent quality, looks evenly all through to the center, which is just as fine and soft and even in quality as outside portions. A field of these which were being grown for us for seed this last year, attracted the universal attention of market gardeners by reason of their extraordinary small tops as compared with other kinds, and their fine shape. It is sure to please all who try it. See illustration on cover; per ¼ lb. 60c; oz. 20c..... 5

VINSON, IOWA, August 29, '87.

The seed we purchased of you gave the best of satisfaction. The vegetables are of the best quality.

S. A. MARINE & CO.

**PARSLEY—Ger. Petersilie.**

One ounce will sow 150 feet of drill.

Sow in March thinly in drills one foot apart, half an inch deep. Soak seed a few hours in warm water before sowing. For winter use, protect in a glass frame or light cellar.

**FERN-LEAVED**—One of the very best in cultivation; leaves bright green, beautifully curled and crested like fern or moss; nothing better for garnishing could be desired, as well as ornamental for a garden decorative plant; per ¼ lb. 50c; oz. 15c..... 5

**Champion Moss Curled**—A very select stock, beautifully crimped and curled; per ¼ lb. 30c; oz. 10c..... 5

**Plain Leaved**—The hardest and strongest growing variety. Leaves dark green. The best flavored for seasoning; per ¼ lb. 25c; oz. 10c..... 5

**PEAS—Ger. Erbse.**

One quart will plant about 100 feet of drill.

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked. And for a succession, every two weeks up to July, or what is still better, select several kinds which will form a succession in maturing, and sow all at about the same time. Sow in drills two to four feet apart, according to varieties, not less than four inches deep for general crop, although the first earlies will come to maturity sooner if only covered one and one-half to two inches. Wrinkled sorts are marked \*. They should be sown thicker in the row than the smooth varieties, as they are more liable to rot. Our Seed Peas are of the very best quality obtainable, and we believe cannot fail to please the most critical. Mulching lightly between the rows with straw is recommended to prevent mildew, and pinching the terminal shoots promotes earliness.

**IF TO BE SENT BY MAIL**  
 Two cents per Packet and Thirty cents per Quart must be added to Pre-pay Postage.  
 SPECIAL PRICES BY THE BUSHEL TO MARKET GARDENERS AND CANNERS.

**EARLY VARIETIES.**

**CLEVELAND'S ALASKA**—Earliest of all. Try it. See description on novelty sheet; per bu. \$6; ¼ bu. \$2; qt. 40c..... 10



**RURAL NEW YORKER**—In our trial grounds, before the introduction of the Alaska, this proved to be the earliest of all, and the most even in growth and maturity; eighty to ninety per cent of the pods can be removed at one picking; very productive and of good quality. Our stock is from the introducer; per bu. \$5.75; ¼ bu. \$1.65; qt. 30c..... 5

**EXTRA EARLY CHALLENGE**—A favorite with the Des Moines market gardeners. Last year it was not obtainable in quantity, but this season we have secured a splendid supply. We can in all confidence say that after a trial of nearly all extra early varieties offered to the trade, we have not found one possessing more merit, hence its name. For the market gardener it has no superior. It is not only extremely early and prolific, but it is of most luscious flavor. All the good qualities of the Extra Early are more nearly brought to perfection in the Challenge. Vines eighteen inches; per bu. \$7; pk. \$2; qt. 40c..... 5

**FIRST AND BEST**—One of the earliest and most generally used varieties. It is an improvement on the Philadelphia Extra Early. Popular on account of its uniformity in ripening. Pods good sized and well filled with smooth Peas of excellent flavor; per bu. \$5; pk. \$1.50; qt. 25c..... 5

**\* BLISS' AMERICAN WONDER.**

EARLIEST WRINKLED PEAS IN EXISTENCE.



BEST AND SWEETEST FOR THE FAMILY GARDEN.

—The earliest and most prolific dwarf wrinkled Pea, unsurpassed for early sowing. On good soil each vine will average twelve pods and each pod six peas. Fifteen pods have been counted on some vines, and nine large peas in some of the pods, and every pod is well filled. The vine grows from eight to ten inches high, according to the soil and season; per bu. \$9; pk. \$2.50; qt. 40c..... 5

**\* McLEAN'S LITTLE GEM**—The most popular variety for private gardens, very sweet; per bu. \$7; pk. \$2; qt. 30c..... 5

**\* PREMIUM GEM**—Height one foot, early and prolific. A type of, and improvement on, the Little Gem. Pods long and of a dark green color; per bu. \$7; pk. \$2; qt. 30c..... 5

**Tom Thumb**—Very scarce this year; per bu. \$7; pk. \$2; qt. 30c..... 5

**Blue Peter, or Blue Tom Thumb**—Similar to above, except in color; seed blue; pods large and well filled with delicious and large sized Peas; per bu. \$7; pk. \$2; qt. 30c..... 5

**\* Laxton's Alpha**—One of the very earliest wrinkled Peas in cultivation; very prolific, fine flavor; pods well filled with large sweet Peas; height, two and one-half feet; per bu. \$6; pk. \$1.75; qt. 30c..... 5

**Landreth's Extra Early**—A strain of the Philadelphia Extra Early that is very popular with some of our customers; per bu. \$4.50; pk. \$1.25; qt. 25c..... 5

**Kentish Invicta**—Very early blue Pea; per bu. \$6; pk. \$1.75; qt. 30c..... 5  
**Carter's First Crop**—Per bu. \$4; pk. \$1.25; qt. 20c..... 5  
**Philadelphia Extra Early**—Per bu. \$4; pk. \$1.25; qt. 20c..... 5  
**Early Kent, or Dan O'Rourke**—Per bu. \$3.50, pk. \$1; qt. 20c..... 5

FOR GENERAL CROP.

**DWARF WHITE MARROW**—Similar in quality to the tall variety, but much earlier, and does well without bushing. Good yielder, much prized by gardeners; per bu. \$3.50; pk. \$1; qt. 20c..... 5

**\* CHAMPION OF ENGLAND**—Universally admitted by all to be one of the richest and best flavored Peas grown. It is very popular, and will bring a higher price in the market than any other; per bu. \$6; pk. \$1.75; qt. 25c..... 5

**BLISS' ABUNDANCE**—Height 20 inches; time of ripening medium; remarkably strong, vigorous branching habit and unusually productive, often sending out three or more branches; pods of fair size, well filled with Peas of good quality; per bu. \$7; pk. \$2; qt. 30c..... 5

**BLISS' EVER-BEARING**—Height 2 feet; late to very late; hardy, vigorous, enormous cropper; pods and Peas of large size and good quality; per bu. \$7; pk. \$2; qt. 35c..... 5

**White Marrowfat**—Per bu. \$2.50; pk. 80c; qt. 15c..... 5

**BLACK-EYED MARROWFAT**—This is extensively grown as a field Pea; very productive, height about four feet; per bu. \$2.50; pk. 75c; qt. 15c..... 5

**Dwarf Blue Imperial**—Per bu. \$5; pk. \$1.50; qt. 25c..... 5

**\* McLean's Advancer**—Per bu. \$5; pk. \$1.50; qt. 25c..... 5

**Yorkshire Hero**—Per bu. \$5; pk. \$1.50; qt. 25c..... 5

**Dwarf Sugar**—Edible pods, use like Snap Beans; per bu. \$8; pk. \$2.50; qt. 40c..... 5

**White Field**—Per bu. \$2; pk. 60c; qt. 10c..... 5

**Blue Field**—Per bu. \$2.25; pk. 65c; qt. 15c..... 5

**PEPPER—Ger. Pfeffer.**

One ounce will produce about 1,800 plants.

Sow seed in hot-bed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows eighteen inches apart. Seeds germinate slowly and require considerable heat.



RUBY KING.



LARGE BELL.



RED CAYENNE.

**RED CLUSTER**—This very handsome new variety is a sport of the Chill, which it slightly resembles, the leaves and fruits are smaller, while it is much more productive, the fruits being curiously crowded together on each branch, making the plants extremely ornamental as well as useful. The Peppers are very hot and of a conspicuous coral red color; per ¼ lb. \$1; oz. 30c..... 10

**Red Chili**—Small, very hot; used everywhere for pepper sauce; per ¼ lb. 75c; oz. 25c..... 5

**RUBY KING**—This new Pepper has given most excellent satisfaction everywhere. The Peppers often attain a very large size. Ordinarily they grow 4½ to 6 inches long by ¾ to 4 inches thick. When ripe they are of a beautiful, bright, ruby red color, and are always remarkably mild and pleasant to the taste. The plant is of sturdy, bushy habit, and each plant produces from 6 to 12 large, handsome fruits; per ¼ lb. 90c; oz. 30c..... 5

**NEW GOLDEN QUEEN**—See description on novelty sheet, page 5; per ¼ lb. \$1.50; oz. 50c..... 10

**Large Bell, or Bull Nose**—Early standard sort; per ¼ lb. 75c; oz. 20c..... 5

**Sweet Mountain, or Mammoth**—Similar to above, but milder; per ¼ lb. 75c; oz. 20c..... 5

**Red Cayenne**—Per ¼ lb. 90c; oz. 25c..... 5

**NEW GOLDEN DAWN MANGO**—A handsome new Mango Pepper, very sweet and entirely exempt from the fiery flavor peculiar to most other varieties; per ¼ lb. \$1; oz. 30c..... 5



**SEED POTATOES.**

See list of choice varieties on another page.

**PUMPKIN—Ger. *Kurbis*.**

One pound will plant about 250 hills.

Principally used for agricultural purposes, but there has been a great improvement in the varieties during the past few years, by the introduction and hybridization of foreign varieties with our old sorts. Plant in hills eight feet apart in May among potatoes, or corn, or in open field. Do not plant near Squashes.

**KING OF MAMMOTHS**—See description in novelty sheet; Per ¼ lb. \$1.35; oz. 35c

**TRUE TENNESSEE SWEET POTATO** 10

—An excellent variety for pies; pear shaped, of medium size, flesh and skin creamy white, fine grained, very sweet and delicious, a first-rate keeper; per lb. \$2; ¼ lb. 60c; oz. 20c

**MAMMOTH TOURS**—A French variety which grows to an immense size; per lb. \$1.50; ¼ lb. 50c; oz. 15c

**MAMMOTH ETAMPES BRIGHT RED** 5

—This giant variety is from France, where it is quite celebrated. It has been grown in this country to enormous size; it is of a bright glossy red color, and makes a splendid variety to grow for exhibition purposes; per lb. \$2; ¼ lb. 65c; oz. 20c

**Connecticut Field**—This is the common field or cow Pumpkin, grown principally for stock. Immense crops can be grown by planting the seed

among corn. In this way as many as five tons have been grown on one acre, without any detriment to the corn; per bu., by express or freight, \$4; pk. \$1.25; lb. by mail 40c; ¼ lb. 15c; oz. .... 5  
**Cashaw Crook-Neck**—For table use; per lb. \$1; ¼ lb. 30c; oz. 10c ..... 5  
**Large Cheese**—Per lb. 75c; ¼ lb. 25c; oz. 10c. .... 5  
**Sweet, or Sugar**—Round, not large, but very sweet and an excellent table variety; per lb. \$1; ¼ lb. 30c; oz. 10c. .... 5  
**Negro**—A small variety of peculiar shape and color. Very fine grain, extra fine for cooking; per lb. \$1.25; ¼ lb. 40c; oz. ....

**SPECIAL.**

We offer a **CASH PRIZE of \$15.00** to the grower of the largest Pumpkin or Squash from our seeds in 1888, to be delivered at our store at any time before November 15th. As an extra inducement for competition, and that our customers may give all our Mammoth varieties a trial, we will send by mail, *one packet each, King of Mammoth, Mammoth Bright Red Etampes, Mammoth Tours Pumpkin and Mammoth Chili Squash for 25 CENTS.* Don't fail to try these, and exhibit also your products at your County Fair and obtain the premium there as well as the prize we offer. We will send *free* exhibition cards for use at your fair.



SCARLET TURNIP WHITE TIP.



SCARLET OLIVE.



FRENCH BREAKFAST.



LONG SCARLET.



GOLDEN GLOBE.



CHINA ROSE WINTER.

**RADISH—Ger. *Rettig*.**

One ounce will sow about 100 feet of drill.

Radish seed should be sown in light rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks until mid-summer. Radishes must be grown quickly, and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to one to three inches apart as soon as the rough leaves appear. Most of our Radish seed was grown for us in France, "the natural home of Radishes," and we think it cannot be surpassed.

**NEW ROSY GEM**—A splendid acquisition for the market gardener and the family garden. See description in novelty list, page 3; per ¼ lb. 60c; oz. 20c

**NEW SURPRISE**—Of very early, quick growth, the Surprise is remarkable for remaining in fine condition, without becoming pithy, longer than any other early Radish. By successive sowings the Surprise will keep the table constantly supplied with the very choicest Radishes. The skin is thin and colored a rich light brown. So thin is the skin that the pure white of the flesh shows through. In quality it is par excellence; firm, juicy and of fine flavor; per lb. \$1.50; ¼ lb. 50c; oz. 15c

**Early Scarlet Turnip White Tip**—Bright scarlet, tipped with white, very showy; per lb. 65c; ¼ lb. 25c; oz. 10c

**Early Scarlet Turnip**—First early, round, white flesh; per lb. 65c; ¼ lb. 20c; oz. 10c

**EARLY DEEPS CARLET TURNIP**—An improvement on the above; richer in color and smoother in skin; per lb. 90c; ¼ lb. 30c; oz. 10c

**White Turnip**—Per lb. 75c; ¼ lb. 25c; oz. 10c

**Scarlet, Olive Shaped**—Very early and tender; prized by gardeners; per lb. 75c; ¼ lb. 25c; oz. 10c

**FRENCH BREAKFAST**—A very handsome table variety of medium size, quick growth and fine quality. It is oval shaped, scarlet tipped with white, very crisp and tender, a favorite variety wherever grown for early use; per lb. 75c; ¼ lb. 25c; oz. 10c

**WOOD'S EARLY FRAME**—A favorite with our market gardeners as it is about ten days earlier than the Long Scarlet, which it very much resembles, although not quite so long; per lb. 75c; ¼ lb. 25c; oz. 10c

**EARLY LONG SCARLET SHORT TOP**—Very popular variety with gardeners and for family use; per lb. 60c; ¼ lb. 20c; oz. 10c

**BECKETT'S IMPROVED CHARACTER**—See description on novelty sheet; per lb. \$1; ¼ lb. 30c; oz. 10c

**WHITE STRASBURG SUMMER OR HOSPITAL**—See description on novelty sheet; per lb. \$1.25; ¼ lb. 40c; oz. 15c

**EARLY MIXED**—A mixture of all the above named varieties, except New Rosy Gem. This will certainly take well for the family garden, as in it there is an assortment of all the best early sorts. They will make a handsome show on the table; per ¼ lb. 45c; oz. 15c

**IOWA SEED CO'S PERPETUAL WHITE SUMMER**—See description with novelties; per ¼ lb. 60c; oz. 20c

**Long White Naples, or Vienna**—A long, clear, white Radish, very handsome, crisp, tender and mild; per lb. 85c; ¼ lb. 25c; oz. 10c

**White Lady Finger**—A large white crisp variety, about half as long as Long Scarlet, and similar in shape. A very desirable sort, decidedly the best of its kind ever introduced. An admirable market sort. A novelty of merit; per lb. \$1.25; ¼ lb. 35c; oz. 10c

**GOLDEN GLOBE**—One of the best summer Radishes, amber flesh and keeps long in eating condition, extra fine quality and rapid growth; per lb. 85c; ¼ lb. 25c; oz. 10c

**Giant White Stuttgart**—Flesh and skin are both snowy white, very crisp, mild and of good flavor, suitable for pulling at any size; per lb. \$1.25; ¼ lb. 40c; oz. 15c

**CHINA ROSE WINTER**—One of the best winter varieties, a general favorite, bright rose colored, flesh white, firm and of superior quality; per lb. \$1; ¼ lb. 30c; oz. 10c

**Long Black Spanish**—A large winter variety, one of the hardest, with dark green leaves, firm



in texture, keeping until spring; per lb. 75c;  $\frac{1}{4}$  lb. 25c; oz. 10c..... 5  
**California Mammoth White**—A winter variety, growing twelve inches long; white fleshed, firm and of excellent quality. It is the largest Radish grown; per lb. \$1.50;  $\frac{1}{4}$  lb. 50c; oz. 15c..... 5

**RHUBARB, or Pie Plant**—*Ger. Rhabarber.*  
 One ounce will produce about 100 plants.

Succeeds best in deep, rich soil. Sow in spring in drills, cover one inch. Thin plants to six inches apart. Transplant in autumn or spring to permanent beds, three feet apart each way.

**Victoria, or Mammoth**—Per lb. \$2;  $\frac{1}{4}$  lb. 65c; oz. 20c. 5  
**Rhubarb Roots**—See miscellaneous list.



**SALSIFY, or Vegetable Oyster**—*Ger. Bocksbart.*

One ounce will sow about 50 feet of drill.

A delicious substitute for oysters in soups. Cultivate same as Parsnips. Salsify should be more generally cultivated. All who have once grown it continue to thereafter.

**MAMMOTH SANDWICH ISLAND**—This new variety is of enormous size, twice that of the ordinary, pure white,



very tender and delicious. Invaluable for the market gardener; per oz. 40c..... 10  
**Long White**—The standard kind; per  $\frac{1}{4}$  lb. 50c; oz. 15c..... 5

**SPINACH**—*Ger. Spinat.*

One ounce will sow about 80 feet of drill; 10 pounds to an acre.

This makes the finest "greens" of any plant in cultivation. For summer, sow early in spring in deep, rich soil in drills one foot apart, cover one inch. Sow at intervals of two weeks through the season. For very early spring use, sow the winter varieties last of August, and protect by covering with straw.

**LONG STANDING**—Far superior to all others; leaves thick, fleshy and crumpled. Slow in running to seed. (*See cut.*) per lb. 65c;  $\frac{1}{4}$  lb. 25c; oz. 10c..... 5

**Round**—Main market sort. Equally good for spring or fall; per lb. 50c;  $\frac{1}{4}$  lb. 20c; oz. 10c..... 5

**Savoy Leaved**—Per lb. 50c;  $\frac{1}{4}$  lb. 20c; oz. 10c..... 5

**Prickly, or Winter**—Per lb. 50c;  $\frac{1}{4}$  lb. 20c; oz. 10c..... 5

**Viroflay**—Grows to an enormous size, and produces wonderful crops; per lb. 50c;  $\frac{1}{4}$  lb. 20c; oz. 10c..... 5

STUART, IOWA, Sept. 16, 1887.  
 The seeds I bought of you last spring were all right. I don't see any use for any one in our noble state to send anywhere else for seeds.  
 J. H. EYMAN, Market Gardener.



NEW GOLDEN BUSH.



EARLY BUSH CROOKNECK.



PERFECT GEM.



ESSEX HYBRID.



TRUE HUBBARD.

**SQUASH**—*Ger. Kurbiss.*

One ounce early varieties will plant about 40 hills; one ounce late will plant 20 hills; 4 to 6 pounds to the acre.

Plant about the middle of spring in hills, the early sorts four to six feet apart, late varieties eight to twelve. Thin to three plants to each hill. The soil cannot be too rich.

**NEW GOLDEN BUSH**—The best summer Squash yet brought out. It is thicker, larger and superior in every way to the old varieties. Very early. Try it; per lb. \$1;  $\frac{1}{4}$  lb. 35c; oz. 10c..... 5

John M. Phillips, of Troy Mills, Iowa, says: "The Golden Bush Squash you sent as an extra is a splendid Squash."

**Yellow Bush Scalloped**—Early market variety; per lb. 75c;  $\frac{1}{4}$  lb. 25c; oz. 10c..... 5

**White Bush Scalloped**—Similar to above, color creamy white; per lb. 75c;  $\frac{1}{4}$  lb. 25c; oz. 10c..... 5

**Early Bush Crook-Neck**—Splendid summer sort; early, productive, very fine quality; per lb. 75c;  $\frac{1}{4}$  lb. 25c; oz. 10c..... 5

**PERFECT GEM**—Excellent both as a summer and winter Squash. Flesh fine grained, dry, sweet and of a delicious flavor, very productive, a free grower and good keeper; per lb. \$1.25;  $\frac{1}{4}$  lb. 40c; oz. 15c..... 5

**NEW EARLY FROLIC MARROW**—The earliest Squash aside from the small summer varieties in existence. See description in novelty list; per  $\frac{1}{4}$  lb. 90c; oz. 30c..... 10

**NEW MEDITERRANEAN**—See description on novelty sheet; per  $\frac{1}{4}$  lb. 75c; oz. 25c..... 10

**Boston Marrow**—This delicious variety is of a rich orange color all the way through; exquisite flavor; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**Essex Hybrid**—Combines the shape of the Turban with the hard shell of the Hubbard, and a better keeper than either. Flesh very thick, rich

colored, solid and fine flavored; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**HUBBARD**—This old variety has for years stood the test of all rivals, and is undoubtedly the best winter Squash known; hard green shell, flesh bright orange yellow, fine grained, very dry, sweet and rich flavored, keeps in perfect condition throughout the winter; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**Winter Crook-Neck**—An old standard table variety. Varies in color from light yellow to green; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**American Turban**—Flesh deep orange yellow in color, fine grained, very dry, sweet and of delicious flavor, unexcelled for fall and early winter use; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**MARBLEHEAD**—A splendid winter variety, only equaled by the Hubbard. Shell very hard, of a light blue color, flesh fully equal to the Hubbard in quality; per lb. \$1;  $\frac{1}{4}$  lb. 30c; oz. 10c..... 5

**MAMMOTH CHILI**—Is certainly the largest variety of Squash (or Pumpkin, as some call it,) grown. Specimens have been grown to weigh over 300 pounds, but to obtain this weight they must be forced by special culture, leaving but one Squash on the vine to mature. From 100 to 200 pounds is a common weight with ordinary culture. Flesh is thick and nutritious for feeding stock, but not considered good for cooking purposes. Grown mainly for curiosity and exhibition at fairs. (*See cash premiums on page 25.*) per lb. \$2;  $\frac{1}{4}$  lb. 75c; oz. 25c..... 10

**Brazilian Sugar**—As its name indicates, it is one of the sweetest of all Squashes, the flesh being unusually fine grained and tender, so much so that it is palatable even when eaten raw. They reach a weight of three to four pounds each, ripen early, and grow so vigorously that they are but little affected by the Squash bug; per lb. \$1.25;  $\frac{1}{4}$  lb. 35c; oz. 10c..... 5

**Vegetable Marrow**—A very popular variety with the English; per lb. \$1.50;  $\frac{1}{4}$  lb. 50c; oz. 15c. 5



**TOBACCO.**

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

This is a paying crop, and will do well in this state.



The following varieties have been thoroughly tested in this climate. Our seed of most of these was grown on the crown panicles of select plants. Early in spring burn a brush pile on the ground to be used for seed bed. Then thoroughly pulverize the soil, digging and mixing in ashes. Sow seed very shallow. When plants are six

inches high transplant into rows four feet apart. Cultivate thoroughly.

**HESTER**—Makes fine cigar stock. It has size, shape, texture and color, and ripens early. It recommends itself greatly in this, that it has greater adaptability over a wider range of soils and latitude than any other of the yellow varieties, and may, on this score, be considered the surest; per ¼ lb. \$1; oz. 35c.....10

**STERLING**—The newest and brightest of the yellow type, and being the earliest to ripen, is surest in localities liable to early frosts; per ¼ lb. \$1; oz. 30c.....5

**BIG HAVANA**—A Hybrid Havana or Cuban seed-leaf. A heavy cropper, of fine texture, delightful flavor and the earliest cigar variety to mature and ripen. Will make two crops from one planting in the South, whilst its earliness makes it most desirable for high latitudes; per ¼ lb. \$1; oz. 30c.....5

**Connecticut Seed Leaf**—Well adapted to this climate; per ¼ lb. 90c; oz. 25c.....5

**White Burley**—Thrives best on a limestone soil; per ¼ lb. \$1; oz. 30c.....5

**Imported Havana**—Per ¼ lb. \$1.50; oz. 45c.....10

**TOMATO—Ger. Liebesapfel.**

One ounce will produce about 1,500 plants.

Sow early in March in hot-beds or seed-boxes, and when plants have four leaves transplant to four or five inches apart; give plenty of air and endeavor to secure a vigorous and healthy growth. When all danger of frost is past transplant to open ground four to six feet apart each way. Well manured, light sandy soil is best, but it must be remembered that a surplus of manure stimulates leaf growth to the detriment of fruit.

**Early Conqueror**—Very early, smooth and good sized; per ¼ lb. 65c; oz. 20c.....5

**Early Canada Victor**—Per ¼ lb. 50c; oz. 15c.....5

**TURNER'S HYBRID, OR MIKADO**—See description in novelty list; per oz. 50c.....10

**OPTIMUS**—A new variety, and we believe the best table Tomato in existence. Vines medium sized, but vigorous, healthy and productive, bearing its fruit in clusters of five. Fruit medium size, oval, very smooth, exceedingly rich, crimson scarlet color, very free from cracks, and rotting less than any of the 70 varieties with which it has been compared. The flesh is of a crimson scarlet color, and is also the best in flavor. Resembles the Favorite but is much more uniform and better; per ¼ lb. \$1; oz. 35c.....10

**Favorite**—A large, smooth Tomato, very prolific and similar to the preceding; per ¼ lb. 75c; oz. 25c.....5

**LIVINGSTON'S NEW BEAUTY**—This new variety is one of the best ever introduced. Its beauty, size, shape, perfection, color, flavor, durability and productiveness make it desirable to all classes of Tomato growers, being of a very glossy crimson with a slight tinge of purple (lighter than the Acme.) Grows in clusters of four or five large fruits, (on a strong vine,) retaining its large size very late in the season; per ¼ lb. 85c; oz. 25c.....6

**PERFECTION**—Somewhat larger than the Acme, ripens all over and through at the same time; is free from rot at the blossom end. We consider this one of the best Tomatoes grown; per ¼ lb. 65c; oz. 20c.....5

**NEW CARDINAL**—A large, grand Tomato, which has become very popular, and we recommend it as being a very choice sort. To briefly describe it, the fruit is smooth, of a deep cardinal color, with flesh of the same rich hue, without a green core, very thick and solid, ripens evenly, has no green spots or ends, is a good keeper, and hence is a good shipper, matures at the same time

as the Trophy, a vigorous grower, and very productive; per ¼ lb. 85c; oz. 25c.....5

*D. S. Koons, of Ulica, Ind., says: "The Cardinal Tomatoes grown from your seed were the finest I ever saw for canning. We never had their equal."*

**Acme**—Among the earliest, medium size, very smooth, solid clear through, great bearer, color dark red tinged with purple; per ¼ lb. 60c; oz. 20c.....5

**Paragon**—Best for canning; per ¼ lb. 60c; oz. 20c.....5

**General Grant**—A favorite variety in some sections; per ¼ lb. 50c; oz. 15c.....5

**Trophy**—One of the largest and best, fine quality, medium early, heavy and solid. Great favorite; per ¼ lb. 65c; oz. 20c.....5

**Golden Trophy**—Our choice of the yellow varieties; color a beautiful canary yellow; per ¼ lb. 85c; oz. 25c.....5

**Red Cherry**—Perfectly round and smooth, about the size of a cherry. Handsome and fine for pickles or preserves; per ¼ lb. \$1; oz. 30c.....5

**Red Currant**—Quite ornamental, resembling long bunches of currants; per ¼ lb. \$1; oz. 30c.....5

**Yellow Plum**—Good for preserving and pickling, plum shape, solid and smooth; per ¼ lb. \$1; oz. 30c.....5

**TURNIPS—Ger. Steekrube.**

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

For early, sow in April. For main crop, sow during July and August, and just before or during a showery time if possible. Often by sowing an early variety as late as September 1st a good crop can be obtained. The Purple Top Munich is excellent for this purpose. The soil should be rich and mellow, and kept free from weeds. Sow in drills half an inch deep and twelve inches apart. Thin to six inches apart in the drill.

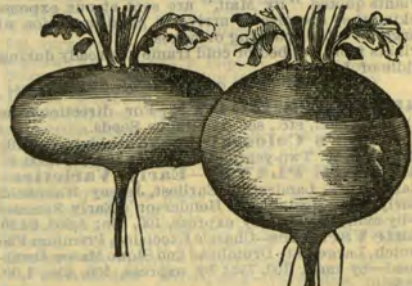
**EXTRA EARLY PURPLE TOP MILAN—(Strap-leaved)**—This new variety has proven to be the earliest in cultivation. It is of medium size and flat shape, pure white flesh, of excellent flavor, small top and a good keeper; per lb. \$1; ¼ lb. 30c; oz. 10c.....5

**Extra Early Purple Top Munich**—A very handsome Turnip, with purplish red top, flesh as white as snow, and of the most delicate flavor; per lb. 75c; ¼ lb. 25c; oz. 10c.....5

**EARLY WHITE EGG**—Very early and particularly desirable for the table, flesh firm and fine grained, sweet and sugary, and of snowy whiteness; egg shaped; per lb. \$1; ¼ lb. 30c; oz. 10c.....5

**Early White Six Weeks**—Very early and excellent; per lb. 75c; ¼ lb. 25c; oz. 10c.....5

**Early White Flat Dutch**—An early white fleshed variety, usually sown early in the spring; of quick growth, juicy, mild flavor, and excellent quality; also grown for a fall crop; per lb. 60c; ¼ lb. 20c; oz. 10c.....5



**PURPLE TOP STRAP-LEAVED. PURPLE TOP GLOBE.**

**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 grained, flavor good. (See cut.) per lb. 50c; ¼ lb. 25c; oz. 10c; 5 pounds or more not prepaid, at 30c per pound.....5

*Mrs. D. C. Adams, of Hay Springs, Neb., writes, under date of October 31, 1887: "From a half pound of Purple Top Strap-Leaved Turnip seed bought from you we have a hundred bushels of very*



*fine Turnips. Some are as large around as a dinner plate, and weigh seven pounds apiece. All other seeds yielded in proportion.*

**PURPLE TOP GLOBE**—Similar to above, except shape. This is the largest yielder of any Turnip on the list, and very desirable either for table use or stock. (See cut;) per lb. 65c; ¼ lb. 25c; oz. 10c; 5 pounds or more not prepaid, 45c per pound..... 5

**Yellow, or Amber Globe**—Good for either garden or field culture, large cropper, flesh yellow, fine grained and sweet; per lb. 85c; ¼ lb. 25c; oz. 10c..... 5

**ORANGE JELLY, or Golden Ball**—A beautiful, bright yellow Turnip of medium size and of universally sweet and delicate flavor. It is hardy and one of the best of keepers. Always brings a good price in the market; per lb. \$1; ¼ lb. 30c; oz. 10..... 5

**Cow Horn**—New, delicate flavor, rapid growth, pure white tinged with green at the crown; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**WHITE GERMAN**—Large size, oval form and very solid, flesh pure white and sweet. This is the best keeping variety that we have found. Have been known to keep in perfect condition through winter and until July. (See cut;) per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Large White Norfolk**—A good field variety; per lb. 50c; ¼ lb. 15c; oz. 5c; 5 pounds or more not prepaid, at 25c per pound..... 5

**Large White Globe**—Fine for field culture; very productive; per lb. 60c; ¼ lb. 20c; oz. 10c..... 5

**Yellow Aberdeen**—Excellent for cattle feeding; per lb. 75c; ¼ lb. 20c; oz. 10c..... 5

**Seven Top**—The hardest of all sorts. Grown principally for the tops which are much liked for greens; per lb. 75c; ¼ lb. 25c; oz. 10c..... 5

**SWEDES OR RUTA-BAGA TURNIPS.**

Ruta-Bagas should be sown not later than June, in drills two feet apart, and thin out to eight inches in the rows.

**Sweet German**—Flesh firm, white and solid; attains a large size and has a rich, sweet flavor; per lb. \$1; ¼ lb. 30c; oz. 10c..... 5

**Skirving's Purple Top**—Per lb. 60c; ¼ lb. 20c; oz. 10c..... 5

**IMPROVED AMERICAN**—This is the leading yellow fleshed variety, very solid, fine quality, valuable for the table and feeding stock. (See cut;) per lb. 75c; ¼ lb. 25c; oz. 10c..... 5



**Carter's Improved Hardy Swede**—Large size, excellent quality and an immense yielder. Many seedmen rank this as the best of the Swede Turnips; per lb. 65c; ¼ lb. 20c; oz. 10c..... 5

**English Rape**—Not a Ruta-Baga, although closely allied; cultivated for its tops, which are valuable for feeding stock; it forms no bulb; per lb. 50c; ¼ lb. 20c; oz. 10c..... 5

**HERBS.**

In making up your assortment of seeds for the year, don't neglect to order a few varieties of Herbs. They should have a place in every vegetable garden. Sow seed in spring in shallow drills, one foot apart, and when up, thin out and transplant to a few inches apart. The chief point is to harvest them properly, which should be done on a dry day, when not quite in full bloom, then dried quickly and packed closely, and entirely excluded from the air.

The following are the varieties most cultivated:

	Pkt.	Oz.
Anise	5	10
Balm	5	30
Basil, Sweet	5	25
Borage	5	15
Caraway	5	10
Catnip	10	50
Coriander	5	10
Dill	5	15
Fennel	5	15
Horehound	10	50
Hyssop	5	30
Lavender	5	25
Majoram, Sweet	5	40
Opium Poppy	5	30
Rosemary	10	50
Rue	5	30
Saffron	5	15
Sage	Per lb. \$2.50; ¼ lb. 75c.	5 25
Savory, Summer	5	25
Thyme, Broad-Leaved	10	50
Tansy	10	50
Wormwood	5	30
Mixed Varieties—A mixture of all the above kinds, and will give a nice garden assortment	10	35

**VEGETABLE PLANTS AND ROOTS.**

Plants quoted "By Mail," are sent at our expense; "By Express," at the purchaser's. By our system of packing they are sure to arrive in good condition when the time of transit does not exceed three days. No charge for either packing or boxes.

Plants from hot bed or cold frame are ready during April and May. Out-door grown, during June and until middle of July.

(Prices for large quantities of any of these Plants or Roots will be given on application.)

**ASPARAGUS ROOTS**—For directions for planting, etc., etc., see Asparagus Seeds.

—**Conover's Colossal**—One-year-old roots, 100, \$7; 1,000, \$5. Two-year-old roots, per 100, \$1; 1,000, \$7.

**CABBAGE PLANTS**—**Early Varieties**—Early York, Landreth's Earliest, Jersey Wakefield, Early Winningstadt and Henderson's Early Summer—by mail, 100, 75c; by express, 100, 50c; 1,000, \$3.50.

—**Late Varieties**—Chase's Excelsior, Premium Flat Dutch, Large Late Drumhead and Stone Mason Drumhead—by mail, 100, 75c; by express, 100, 40c; 1,000 \$2.50.

**CAULIFLOWER PLANTS**—**Snowball, Erfurt and Favorite**—By mail, doz., 20c; 100, \$1.25; by express, 100, \$1; 1,000, \$7.

**CELERY PLANTS**—**Henderson's Half Dwarf, Golden Dwarf, White Plume and Boston Market**—By mail, doz., 20c; 100, \$1; by express, 100, 75c; 1,000, \$5.

**EGG PLANTS**—**New York Improved**—By mail, doz., 25c; by express, 100, \$1.25.

**GARLIC SETS**—Plant early in the spring, in rows one foot apart and three inches apart in the row. Cultivate like Onions; per lb., 50c, postpaid.

**HORSE RADISH SETS**—Plant at any time during spring, in rows two feet apart and about eighteen inches apart in the rows. By mail, per doz., 35c; by express, per 100, \$1; per 1,000, \$8.

**PEPPER PLANTS**—**Large Bell, Sweet Mountain, Cayenne and Golden Dawn**—By mail, doz., 25c; 100, \$1.25; by express, per 100, \$1.

**SWEET POTATO PLANTS**—We make a specialty of supplying first-class Sweet Potatoes and Sweet Potato Plants, and we take great pains to send out only such as are strong, vigorous, well-rooted and hardy. (Ready about May 1st.) Price by mail, 100, 75c; 300, \$2; by express, per 100, 35c; 1,000, \$2.50.

**RHUBARB ROOTS**—These may be planted early in the spring or in the fall, setting the roots three feet apart each way. It requires but little labor to plant, and when once planted in good rich soil it will remain in bearing condition several years. By express, each 20c; doz., \$1.50; 100, \$10.

**TOMATO PLANTS**—**Cardinal, Perfection, Favorite, Acme, Beauty or Trophy**—By mail, doz., 20c; 100, \$1; by express, 100, 65c; 1,000, \$4.



# FLOWER SEEDS.

EVERY one loves the beautiful flowers, and as they look up and thank those who water and care for them, they cheer and brighten our lives. After the busy rush of the seed business in the spring is over, the writer always enjoys getting out into the garden among his friends, the flowers, caring for their wants, studying their habits, and enjoying their fragrance and beauty. Every one who passes by a handsome flower garden cannot avoid noticing and admiring it, and the one who has cultivated it feels richly repaid for all their work and expense.

The varieties of flower seeds found in this list have been selected with the greatest care, all being discarded except the best and most popular, and our customers will find that there is not one unworthy or undesirable variety included. Many of the kinds we grow ourselves in this state, and all which we do not grow are from the best and most reliable European sources, and are unsurpassed in quality.

Many who do not meet with the success they had expected in the culture of a general list of flowers, attribute the difficulty solely to the seed, overlooking the important fact that nearly the entire range of flower seeds require careful and particular treatment, and the further fact that the treatment and conditions which with one variety will produce the most satisfactory results may utterly blight another.

To insure success, the conditions and requirements of the several species as to soil, moisture, heat, light, etc., should be studied and then observed in culture. Below we give a few general directions for their culture, though more complete directions will be found printed on most of the seed packets.

The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter.

Make the surface as smooth and fine as possible, sow seed in rows, covering each sort of seed in proportion to its size (a good general rule being to cover twice the diameter of the seed) and press the soil down firmly over it. Do not plant any seeds when the ground is wet. Many varieties should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich mellow loam, well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature more even. Be careful not to keep them too wet, and as soon as they are large enough to handle, transplant into boxes, from one to two inches apart, where they are to remain until time to transplant to permanent beds.

We will always be glad to answer any questions from our customers, relative to the cultivation of any kinds of plants.

The common name of many varieties will be found immediately following the proper name.

ALL FLOWER SEEDS ARE SENT FREE BY MAIL ON RECEIPT OF PRICE, and as an inducement to the formation of clubs, and to those who buy a quantity, we will send seeds in packets to the amount of \$1.25 for \$1.

## ANNUALS.

Under this heading we include not only the true Annuals—that is, those plants which grow from seed, blossom and die the same season—but also some Biennials and Perennials, such as Pansies and Daisies, that flower the first season, and then live on for a year or more.

The figures at the right of the column show the price of seeds per packet.

<b>Abronia</b> —Trailing habit, similar to Verbenas, bearing clusters of sweet-scented flowers. Effective for bedding in masses:	
— <b>Umbellata</b> —Rosy lilac.....	5
— <b>Grandiflora</b> —Pure rose.....	5
<b>Adonis Æstivalis</b> —Brilliant scarlet, blossoms throughout the season, succeeds well in the shade.	5
<b>Ageratum</b> —Very desirable for bouquets; a profuse bloomer:	
— <b>Mexicanum</b> —Blue.....	5
— <b>Albiflorum</b> —White.....	5
<b>Agrostemma</b> —Hardy, free-blooming plants, making handsome beds, and very useful for cutting:	
— <b>Coeli Rosa</b> —Deep rose color.....	5
— <b>Alba</b> —White.....	5
<b>Alonsoa</b> —A constant bloomer; flowers small but very brilliant; plants removed to the house in autumn will continue to bloom through the winter;	
— <b>Albiflora</b> —White.....	5
— <b>Grandiflora</b> —Scarlet; very fine.....	5
<b>Alyssum, Sweet</b> —The delicate fragrance of this little white flower has made it a general favorite; per oz. 50c.....	5
<b>Amaranthus, Caudatus</b> —(Love-lies-bleeding)—Produces long drooping chains of brilliant colored flowers.....	5
— <b>Cruentus</b> —(Prince's Feather).....	5
— <b>Salicifolius</b> —(Fountain Plant)—Handsome form, beautiful foliage, very desirable for centers of beds, borders or pot culture.....	10
— <b>Tricolor</b> —(Joseph's Coat).....	5
<b>Anagallis</b> —Low growing plants, with remarkably bright and handsome flowers; mixed varieties and colors.....	10
<b>Antirrhinum</b> —(Snap Dragon)—An old favorite perennial, blooming the first year from seed and keeping up a constant and beautiful show of flowers till frost:	
— <b>Nanum</b> —Dwarf varieties, mixed.....	5
— <b>Majus</b> —Tall varieties, mixed.....	5
— <b>Tom Thumb</b> —A collection of the most beautiful, very dwarf varieties, mixed colors.....	10
<b>Argemone</b> —(Prickly Poppy)—Free-blooming; flowers somewhat resemble the Poppy:	
— <b>Dark Yellow</b> .....	5
— <b>Grandiflora</b> —White.....	5
<b>Asperula Azurea Setosa</b> —A hardy, dwarf-growing little annual, producing an abundance of small, light blue, sweet-scented flowers; fine for bouquets.....	5
<b>Asters</b> —Give the Aster a deep, rich soil, with plenty of mulching, and it will surprise even its friends with its profusion of richly-colored perfect flowers. Plant early as possible:	
— <b>Dwarf German</b> —Mixed colors.....	10
— <b>Pyramidal Bouquet</b> —Very fine, mixed colors.....	10
— <b>Quilled German</b> —Finest mixed.....	5
— <b>Large-Flowered Rose</b> —Flowers very large, perfect and brilliant, best mixed colors.....	15
— <b>Victoria</b> —This is a magnificent sort; very brilliant colors, mixed.....	20
— <b>Truffant's Peony-Flowered Perfection</b> —Mixed colors.....	10
— <b>Hedge-hog, or Needle</b> —Mixed colors.....	15
— <b>Washington</b> —Extra large and handsome flowers, very double, fine for exhibition and table bouquets.....	10
— <b>Mixed Varieties and Colors</b> .....	5



- Balsam**—An old favorite much improved; unsurpassed for masses, fine for ribbon beds or borders; flowers double as the Rose, and very striking in their rich coloring:
- Best Double**—Mixed colors; per oz. 60c. .... 5
  - Double Rose-Flowered**—White. .... 10
  - Mixed Colors**. .... 5
  - Camellia-Flowered**—Mixed colors. .... 10
  - Carnation-Striped**—Mixed colors. .... 10
  - Maiden's Blush**—A new variety of Double Balsam, which is of a very delicate and handsome bluish color. .... 10
  - Bartonia Aurea**—Bright yellow. .... 5
  - Begonia**—Tuberous-rooted. .... 25
  - Rex**—Extra mixed. .... 25
  - Fourteen flowering varieties mixed. .... 15
  - Brachycome**—(Swan River Daisy)—Blue. .... 5
  - White**. .... 5
  - Browallia Elata**—Produces very delicate and handsome flowers in great abundance; mixed. .... 10
  - Cacalia Coccinea**—A handsome free flowering little plant; owing to the peculiar form of the flower it is sometimes called Tassel-Flower, or Florida's Paint Brush; scarlet. .... 5
  - Cactus**—Fine mixed varieties. .... 25
  - Calandrinia**—Very pretty little plants for rockeries or vases; hardy, easily grown:
    - Speciosa**—Crimson. .... 5
    - Alba**—White. .... 5  - Calendula**—Belongs to the well-known Marigold family:
    - Officinalis Le Preoust**—Very double, nankeen colored, fine. .... 5
    - Meteor**—Striped light orange. .... 5
    - Fine Mixed**. .... 5  - Calliopsis**—Fine for cutting, and the more you pick it the better it blooms; mixed varieties and colors. .... 5
  - Callirhoe Pedata Nana**—Large purplish crimson flowers with white eye, very handsome, free bloomers. .... 5
  - Campanula Speculum**—(Venus' Looking-Glass)—Handsome for masses; hardy, free bloomers. .... 5
  - Candytuft**—Hardy annual of the easiest culture, an old favorite. Seed should be sown where the plants are in bloom:
    - Snow Queen**—Splendid new variety. See description on page 11 of novelty sheet. *Try it!* .... 10
    - Amara**—White. .... 5
    - Coronaria**—(Tom Thumb)—Dwarf. .... 5
    - Odorata**—White; sweet-scented. .... 5
    - Dunnett's Crimson**—Splendid. .... 5
    - Best Mixed**—Per oz. 40c. .... 5  - Canna**—Magnificent foliage plants growing from three to six feet in height. If convenient, it is well to start seed in heat. Finest varieties mixed, per oz. 40c. .... 5
  - Carnation**—The finest of the Dianthus or Pink family, very fragrant. Easily grown from seed and blooms second year.
    - Double Extra Mixed Colors**. .... 20
    - Selfs, Mixed**. .... 10
    - Perpetual or Tree**. .... 25  - Catchfly**—(Silene Armeria)—A very pretty and showy little plant; mixed colors. .... 5
  - Celosia Japonica**—(Japan Cockcomb)—Very bright crimson, well grown specimens are large and finely cut, producing a very striking and handsome appearance. .... 10
  - Glasgow Prize**—A very fine, semi-dwarf variety; with large, brilliant crimson comb, and handsome dark foliage. Specimens grown on our place for seed this year measured 12 to 15 inches in diameter. .... 15
  - Cristata Nana**—Dwarf mixed. .... 10
  - Pyramidalis Plumosa**—Very handsome feathered sort; fine mixed. .... 10
  - Centaura Cyanus**—(Bachelor Button)—Mixed. .... 5
  - Moschata**—(Sweet Sultan)—Mixed. .... 5
  - Centranthus**—Very handsome small flowers, desirable for bouquets; mixed varieties. .... 5
  - Crysanthemum**—Very showy and desirable for fall and early winter blooming. Plants potted in the fall make a continuous bouquet for many weeks.
    - Tricolor**—Fine mixed. .... 5
    - Indicum Pompon**—Double mixed. .... 10
- Cineraria Hybrida**—Very handsome greenhouse plants, fine mixed. .... 25
- Maritima**—Silver-leaved. .... 10
  - Candidissima**. .... 15
- Clarkia Elegans**—Of easy culture, an early and free blooming plant; fine mixed. .... 5
- Clanthus Dampieri**—A beautiful shrubby climber, grown mostly under glass, but does well set out of doors in summer time; flowers brilliant scarlet, growing in clusters. .... 25
- Coleus**—Handsome foliage plants, much used for massing and edgings; seed should be started under glass; mixed varieties. .... 15
- Collinsia**—Very pretty hardy annuals, producing an abundance of flowers in clusters; mixed. .... 5
- Convolvulus Minor**—(Dwarf Morning Glory)—Flowers smaller than the old vining sort, and producing a greater abundance. Beautiful for massing; fine mixed colors. .... 5
- Crepis**—Low growing plants with neat little flowers of bright yellow, white, pink and red; fine mixed. .... 5
- Cuphea Platycentra**—(Cigar Plant)—Greenhouse plant, also makes a handsome border; flowers bright scarlet, tipped with black and white. .... 15
- Purpurea**—Fine mixed. .... 5
- Cyclamen Persicum**—One of the handsomest of greenhouse plants. The foliage is handsomely marked and the flowers beautiful. Seed should be sown under glass in well rotted compost and sand; mixed colors; *best strain*. .... 25
- Daisy**—Popular perennials, blooming the first year from seed; very handsome for borders or pots; best double mixed. .... 10
- Dahlia**—This beautiful flower is easily grown from the seed. Start early in the house. .... 10
- Datura Fastuosa**—Best double mixed. .... 5
- Dianthus**—Deservedly popular, coming into bloom early and continuing throughout the season. The fragrance, beauty and bright coloring of their flowers are universally admired:
- Chinensis**—(Double Chinese Pink)—Finest double mixed. .... 5
  - Heddwigi**—Finest selected single mixed, undoubtedly one of the most showy of the Pink family. .... 5
  - Laciniatus**—Double fringed; best mixed. .... 10
  - Imperialis**—(Double Imperial Pink). .... 5
  - Mixed Varieties and Colors**. .... 5
  - Barbatus**—(Sweet William)—An old favorite; hardy perennials; single mixed. .... 5
- Digitalis**—(Fox-Glove)—Hardy perennials; bloom the first year; fine mixed. .... 5
- Erysimum**—Handsome, hardy annuals; free blooming, resembling the single Wall Flower; deep orange flowers. .... 5
- Eschscholtzia**—(California Poppy)—Low growing plants; pretty for massing or edging; mixed. .... 5
- Euphorbia**—A showy foliage plant. .... 5
- Feverfew**—See *Matricaria*.
- Fuchsia Hybrida**—Well known greenhouse plants. Easily grown from seed; finest double mixed. .... 25
- Ferns**—Fine mixed. .... 15
  - Tree**—Fine mixed. .... 25
- Galardia**—A showy bedding plant, producing an abundance of brilliant flowers through the whole summer and fall:
- Pieta**—Best mixed. .... 5
  - Lorenziana**—New double, one of the finest annuals grown for bedding and cutting. .... 10
  - Grandiflora**—Very handsome perennial, varieties mixed. .... 10
- Geranium, Fine Mixed Colors**—Contains a choice assortment. .... 10
- Tom Thumb**—Best dwarf; mixed colors. .... 15
  - Apple-Scented**—Per 100 seeds 75c. .... 25
- Gilia**—Low growing annuals, pretty for border or beds; flowers profusely; very useful for cutting; of easiest culture:
- Tall Varieties**—Mixed. .... 5
  - Dwarf Varieties**—Mixed. .... 5
- Gladiolus**—A well known bulb, easily grown from seed, and we should like to have all of our customers try raising them in this way. This seed is of our own growing from the best varieties, and will produce an assortment sure to please any lover of flowers. They bloom the second year from seed. .... 15
- Gloxinia**—Greenhouse plants, producing richly colored and brilliant flowers; finest strains of new Hybrids; mixed. .... 25



- Godetia**—Handsome plants for borders or ribbon beds, flowers very bright, constant bloomers; best varieties mixed ..... 5
- Gypsophila Elegans**—Very handsome small flowers, produced in loose panicles in great abundance; fine for bouquets; also much used dried for winter bouquets; mixed colors ..... 5
- Hellanthus**—(Sunflower)—Some varieties of this well known plant are very ornamental:
- Globose Fistulosus**—Double, the best of the tall varieties ..... 5
  - Nanus**—True double dwarf, quite pretty ..... 5
  - Variagated**—Handsome ornamental foliage ..... 10
- Mammoth Russian**—Largest of all; per lb. 50c; oz. 10c ..... 5
- Common**—Per lb. 40c; oz. 10c ..... 5
- Heliotrope**—A great favorite with all lovers of flowers for their beauty and fragrance; well suited for beds, borders and pot culture; all varieties mixed ..... 10
- Hibiscus Africanus**—Handsome hardy annuals with large highly colored flowers ..... 5
- Hycinthus Candicans**—A vigorous grower, throwing up flower stalks three to four feet high, with beautiful, white, drooping flowers; fine for mixing in beds of Gladiolus; blooms the second year from the seed ..... 10
- Ice Plant**—A very attractive trailing plant, much admired for baskets or rockeries ..... 5
- Jacobaea**—Blooms throughout the season, making a brilliant show; mixed varieties ..... 10
- Kaufussia**—Good border plants ..... 5
- Lantana**—Greenhouse perennial; makes a fine bedding or pot plant; easily grown from seed:
- Hybrida**—Best mixed ..... 15
- Larkspur**—Beautiful plants with fine cut leaves. They do best in a rather heavy rich soil:
- Double Striped**—The handsomest variety extant, colors bright and distinct ..... 5
  - Dwarf German Rocket**—Mixed colors ..... 5
  - Tall German Rocket**—Mixed varieties ..... 5
  - Hybrida**—Very fine; mixed varieties ..... 10
- Leptosiphon**—Very handsome in borders or ribbon beds; succeed best if shaded a little; mixed ..... 10
- Linum**—(Scarlet Flax) ..... 5
- LOBELIA**—Handsome trailing plants; profuse bloomers; elegant for baskets, vases or borders:
- Crystal Palace**—Handsome blue ..... 5
  - Erinus**—Mixed colors ..... 5
- Lupinus**—Commonly called Sun Dials; flowers of very bright colors, produced in spikes; a fine bedding plant:
- Mixed Varieties** ..... 5
- Lycnis**—Very desirable hardy perennials; blooming the first year if sown early:
- Haageana Hybrida**—Fine mixed varieties ..... 10
- Malope**—Strong growing plants, with pretty blue and white flowers, produced in great abundance; mixed ..... 5
- Matricaria Capensis**—(Double Feverfew)—This may be called everybody's favorite; a splendid bedding plant, and one of the best to pot for winter flowers; pure white ..... 10
- Golden**—(See *Pyrethrum*.)
- Marigold, African**—Double mixed ..... 5
- French**—Double mixed ..... 5
  - Dwarf French**—Double mixed ..... 5
- Mignonette**—Well-known sweet-scented little flowers; fine for borders or masses:
- Sweet-Scented**—The old favorite; per oz. 20c ..... 5
  - Grandiflora**—Large flowered ..... 5
  - Golden Queen**—A very distinct new variety, with bright golden flowers ..... 10
  - Parson's White**—Very pretty ..... 5
  - Miles' Spiral**—Long and large spikes ..... 5
  - Machet**—A variety of very dwarf, vigorous growth, with massive spikes of deliciously-scented red flowers; the best of all sorts for pots ..... 15
- Mimulus Mosehatus**—(Musk Plant) ..... 10
- Tigrinus**—Tigred and spotted varieties; very fine ..... 10
  - Duplex**—Beautiful double (Hose in Hose) tigred and spotted varieties ..... 10
- Myrabilis Jalapa**—(Four o'clocks)—An old favorite, useful for massing or borders ..... 5
- Myosotis**—(Forget-me-nots)—Perennials; bloom first year from seed. Pretty plants with neat little star-shaped flowers:
- Alpestris**—Blue ..... 5
  - White** ..... 5
- Palustris**—True Forget-me-not; blue ..... 10
- Nasturtium**—(Tom Thumb)—None of the annuals make a prettier bed. The brilliant coloring of the flowers are very attractive:
- Extra Choice Mixed Colors** ..... 5
  - Crystal Palace Gem**—Sulphur, spotted with maroon ..... 5
  - Empress of India**—A splendid new, dark-leaved variety with crimson flowers ..... 10
- Nemophila**—Elegant little plants for early spring flowers, and will bloom freely all summer if protected a little from the hot sun; six to eight inches high; mixed colors ..... 5
- Nicotiana Affinis**—Very valuable plant, three feet high; produces freely deliciously-scented, large white tubulous flowers ..... 10
- Nigella**—(Love in a Mist)—Hardy annuals, about one foot in height, finely cut leaves with handsome flowers; blooms early; mixed ..... 5
- Nolana**—Flowers cup-shape with pretty shades of violet and blue; mixed varieties ..... 5
- Oenothera**—(Evening Primrose)—An interesting half hardy annual, opening its flowers towards evening with a snap that is sure to attract attention, especially of the children:
- Acaulis Alba**—Pure white, very handsome ..... 10
  - Lamackiana**—Yellow ..... 5
- Oxalis**—Handsome basket plant; summer or winter; fine for rockeries ..... 10
- Pansy**—This little beauty needs no extended description, as it would be hard to find even a child in the land whose heart has not been gladdened by their bright faces. Succeeds in any rich soil, but flowers will be small in mid-summer, where exposed to the sun. Should be freely watered in dry weather. Seed started in February or March will produce early spring flowers. Very pretty and effective ribbon beds can be made with these separate colors:
- Azure Blue**—Very fine shade of sky blue ..... 10
  - Bronze Colored**—Handsome ..... 10
  - Cliveden Purple**—A very rich color ..... 10
  - Violet Margined with White** ..... 10
  - Pure White**—Appropriate for cemeteries ..... 10
  - Golden Yellow**—Best of the yellow varieties; desirable as a contrast ..... 10
  - Faust**—(King of the Blacks)—Jet black ..... 10
  - Snow Queen**—Flowers of a delicate, pure, satiny white, handsome and attractive ..... 15
  - Emperor William**—Ultra-marine blue ..... 10
  - Odier, or Bloched**—This superb, large variety of pansies have been much improved ..... 20
  - Lord Baconfield**—New, large flowers of deep purple violet, shading off in the petals to a white hue ..... 15
  - Quadricolor**—New and distinct; fine ..... 10
  - Trimardean or Giant**—New. See description on Novelty Sheet, page 11 ..... 35
  - Choice German Mixed**—Magnificent large velvety flowers of richest hues and colors ..... 25
  - Choice Large-flowering Mixed**—Very fine ..... 20
  - Fine Mixed**—Choice varieties. Per oz. \$2.25 ..... 10
  - Good Mixed**—Per oz. \$1.50 ..... 5
  - One packet each of the first twelve varieties, \$1.00.
  - One packet each of the fifteen varieties, \$1.50.
- Perilla Nankinensis**—An elegant, finely cut leaved foliage plant ..... 5
- Petunia**—Are easily grown from seed and succeed in any common soil. The double varieties require more care and should be started in the house. The great variety of bright colors, beautiful stripings and markings and constant show of bloom make them general favorites:
- Fine Mixed Colors** ..... 5
  - Hybrida**—Extra fine striped and blotched varieties; mixed colors; handsome ..... 10
  - Grandiflora Fimbriata**—Finest fringed varieties in mixture combining elegance of form, with great diversity of delicate and charming colors. Extra large flowers ..... 20
  - Double Inimitable**—Splendid mixture; our seed is Benary's best and will produce a large percentage of fine double-flowering plants ..... 25
- Phlox Drummondii**—If we could have but one flower for our garden, that one would be the Phlox. Its brilliant shades of color ranging from clear white to brilliant scarlet make an almost dazzling show; continually in bloom:
- Alba**—Pure white ..... 10



- **Coccolnea**—Brilliant scarlet..... 10
- **All Varieties**—In finest mixture..... 5
- **Grandiflora**—A very fine, large-flowering strain; best mixed colors..... 10
- **Nana**—Dwarf, compact-growing class; very fine for borders and ribbons; extra fine mixed..... 10
- **New Double White**—A splendid German novelty of robust, half dwarf growth, nearly all coming double from seed. Very desirable for cutting..... 15
- Poppy**—Hardy annuals, very showy and of easy culture; some of the double and newer sorts are exceedingly attractive:
- **White Crimson Tipped**—A new, very handsome variety, which is unusually double. Petals are tipped with crimson..... 10
- **Double Carnation**—Fifteen varieties mixed; will make an attractive bed..... 5
- **Pæony-flowered**—Fine mixed..... 5
- **Papaver Umbrosus**—Flowers rich, glowing vermilion, with a deep shining black spot on each petal..... 10
- **Opium**..... 5
- Portulaca**—This old favorite is brightest in the hot, dry weather when other flowers are drooping; they are of almost every conceivable shade of color, and will make one of the brightest spots in the garden:
- **Single Varieties Mixed**..... 5
- **Double Mixed**—Very handsome..... 15
- Pyrethrum, Golden Feather**—A very handsome foliage plant..... 10
- **Golden Gem**—A beautiful plant for edgings or ribbon beds; double-flowering..... 10
- **Roseum**—Persian insect powder plant..... 10
- Ricinus**—(Castor Oil Bean)—Stately foliage plants; make a very handsome appearance on the lawn planted singly; also fine for clumps:
- **Africanus**—Stalk and pods rose color..... 5
- **Gibsoni**—Dark purple stem and leaves; fine..... 10
- **Sanguineus Tricolor**—Blood-red stalk; very attractive..... 10
- **Giantus**—The largest variety grown..... 10
- **Common**—Per oz. 15c..... 5
- Salpiglossis**—A very handsome, half-hardy annual; flowers beautifully veined and pencilled:
- **Finest Mixed**..... 10
- Salvia**—One of the most brilliant of flowers; thrives in any light, rich soil; often called Flowering Sage; all are free bloomers:
- **Coccolnea Hybrida**—Flery scarlet..... 5
- **Horminum Alba**—White..... 5
- **Patens**—Beautiful sky blue..... 15
- **Splendens**—Brilliant scarlet; very fine..... 10
- Saponaria**—Desirable low-growing plants; suitable for edgings or borders, flowering throughout the season; hardy annuals, of easy culture; setting alternate plants of red and white makes a handsome border:
- **Red, White and Mixed**—Each..... 5
- Scabiosa**—(Mourning Bride)—One of the best of free-flowering hardy annuals of very handsome colors:
- **Atropurpurea**—Best tall varieties; mixed..... 5
- **Best Double Tall Varieties**—Mixed..... 5
- **Nana**—Best Double Dwarf; mixed..... 5
- Schizanthus**—Pretty, free-flowering half-hardy annual, with oddly marked flowers; mixed..... 5
- Sedum**—Well suited for baskets and rock-work; blooms freely; many varieties mixed..... 5

- Sensitive Plant**—A very pretty and curious plant, the leaves closing when touched; seeds start slow, and it is best to plant them in boxes, cover shallow and see that they do not dry out; it makes a good house plant for winter..... 5
- Statie Sinnata Hybrida**—Produce their small flowers in panicles; will hold their color when dry, and are valuable to work up with the everlastings; hardy and of easy culture; fine mixed..... 5
- Stevia Serrata**—Produce an abundance of pretty white flowers early in the fall..... 5
- Stocks, Ten Weeks**—This plant embraces wonderful range of colors, unsurpassed for beds, borders or pot culture. To insure the best results they should be started early in the house and be transplanted to rich soil deeply cultivated and with plenty of moisture:
- **Large-Flowering Dwarf German**—Finest varieties mixed..... 10
- **Brompton, or Winter**—Not hardy enough to stand our winters, but potted in the fall they make good winter bloomers and can be transferred to the garden in the spring; mixed colors..... 15
- Sunflower**—See Helianthus.
- Torenia Fournieri**—Beautiful free-flowering, trailing plants, well suited for baskets, vases and in moist situations out of doors. A very handsome plant, well worthy a trial..... 10
- Verbena**—Plant seed in boxes or under glass in March, and transplant when a few inches high. In this way the verbena can be grown from seed as easily as any annual and will produce much stronger plants than cuttings; another advantage is that a large portion of the plants will produce fragrant flowers. They delight in rich soil and good culture, and will repay all such trouble by abundance of bloom and richness of their color:
- **Henderson's New Mammoth**—See description in Novelty List, page 12..... 25
- **Hybrida Candidissima**—Large, trusses of pure white flowers; very beautiful..... 15
- **Defiance**—True scarlet; extra fine..... 15
- **Niveni**—White, sweet-scented..... 10
- **Hybrida, Fine Mixed**..... 10
- **Extra Choice Mixed**—From the finest German collection of named sorts..... 25
- **Good Mixed**—Contains a nice variety..... 5
- Vinca**—Seed should be started in the house and plants set out the first of June. Treated in this way they make very handsome border plants, giving a mass of bloom through the summer and fall, when they may be potted for the winter flowering indoors. Mixed varieties..... 10
- Virginia Stocks**—Free flowering, hardy little annual, pretty for beds, edgings, baskets or vases; easily grown; mixed colors..... 5
- Whitlavia**—Delicate and pretty, but perfectly hardy plants with drooping clusters of bell-shaped flowers; they thrive in cool, moist situations, free bloomers, and for partially shaded places are very desirable:
- **Grandiflora**—Dark blue..... 5
- **Alba**—White..... 5
- Zinnia**—Strong growing, hardy and elegant plants, rivaling the Dahlia when well grown. Splendid for hedges, beds or borders:
- **New Zebra**—See description in novelty list..... 10
- **Elegans, Fine Mixed**—Single..... 5
- **Finest Mixed Double**—Tall sorts..... 5
- **Finest Mixed Double Dwarf**..... 10

## EVERLASTINGS.

A very useful class of plants for winter decorations, as well as being very handsome garden plants. The flowers should be picked as soon as open, and the stems tied carefully together to keep them straight; dry in the shade, and they will retain their form and color for years.

- Acroclinium**—Strong growing plants, with handsome, daisy-like flowers:
- **Roseum**—Pretty rose color..... 5
- **Fl. Albo**—Pure white..... 5
- **Fl. Pleno**—Splendid double mixed..... 15
- Amobium Alatum Grandiflorum**—New, one of the prettiest of the everlastings; large flowering..... 5
- Edelweiss**—The pretty Alps flower so much admired and sought after by tourists; hardy perennial..... 20
- Gnaphalium Orientale Fl. Pleno**—The famous French Immortelle..... 20
- Gomphrena**—(Globe Amaranth)—Mixed varieties..... 5
- Helichrysum**—A mixture of splendid double varieties, one of the best and most easily grown of the everlastings..... 5
- Rhodanthe Maculata**—Pretty bell-shaped bright rosy crimson flowers..... 10
- Statice**—Not a true everlasting, but retain their color when dry, fine for bouquets, fresh or dry; fine mixed colors..... 5
- Xeranthemum**—Free-flowering, easily grown, making a very handsome bed:
- **Double White**..... 10
- **Double Purple**..... 10
- **Superbissimum**—Pompon flowered..... 15



## ORNAMENTAL CLIMBERS.

This list includes all the most desirable, both of the delicate and the vigorous growing varieties.

<b>Adumia</b> —(Mountain Fringe)—A beautiful, hardy perennial, with Fern-like foliage..... 5	<b>Maurandia</b> —Pretty for baskets, window vases and indoor decorations; fine mixed..... 10
<b>Balloon Vine</b> —Half-hardy annual, requires partial shade; pretty vine and flower..... 5	<b>Nasturtium, Tall</b> —Admirably adapted for rock work, covering trellises, etc. They have recently come into much favor again:
<b>Calampelis Scabra</b> —Bright orange flowers produced in great abundance..... 10	— <b>Choice Mixed Colors</b> —Per oz. 15c..... 5
<b>Coboea Scandens</b> —One of the most magnificent climbers, prized for its rapid growth (often twenty to thirty feet) and abundance of beautiful, brilliant scarlet flowers; the seed should be planted edgewise, in moist earth—a pot or box is best—and given little or no water till plants are two or three inches high..... 10	— <b>Roi des Noirs</b> —Almost black, very distinct..... 10
— <b>White</b> —New and elegant..... 15	— <b>Napoleon III</b> —Golden yellow, striped with rosy scarlet..... 10
<b>Convolvulus Major</b> —(Morning Glory)—Very useful, rapid and free blooming, hardy climbers: mixed colors: per oz. 15c..... 5	— <b>Geant des Batailles</b> —Brilliant carmine, fine..... 10
<b>Cypress Vine</b> —Rapid climbers, with handsome, finely-cut foliage and brightly-colored flowers:	<b>Smilax</b> —Much used for winter decorations; seed starts slowly and should be planted in loose, rich soil and kept moist and warm..... 20
— <b>Scarlet</b> —Very bright..... 5	<b>Sweet Peas</b> —A hedge of Sweet Peas in bloom is one of the prettiest sights imaginable. The richness of their colors and delicacy of their fragrance make them indispensable in the flower garden. Plant them early and deep, two to four inches, in rich, loose soil; furnish support when four to six inches high;
— <b>White</b> —Pretty in contrast with scarlet..... 5	— <b>Butterfly</b> —White, tinted lilac; oz. 25c..... 5
— <b>Mixed Colors</b> ..... 5	— <b>Crown Prince of Prussia</b> —Bright blush..... 10
<b>Dolichos Lablab</b> —(Hyacinth Bean)—An excellent climber for dry, exposed places; mixed..... 5	— <b>Invincible, Scarlet</b> —Oz. 15c..... 5
<b>Gourds</b> —Useful for covering fences, arbors or old trees and stumps; greatly admired for their curiously-shaped and colored fruit:	— <b>Painted Lady</b> —Pink and white; oz. 15c..... 5
— <b>Calabash, or Dipper</b> ..... 5	— <b>Violet Queen</b> —Very pretty; oz. 25c..... 10
— <b>Hercules Club</b> ..... 5	— <b>White</b> —Oz. 15c..... 5
— <b>Nest Egg</b> —Used largely for nest eggs..... 10	— <b>Extra Fine Mixed</b> —Contains a splendid assortment; per lb. \$1.00; ¼ lb. 35c; oz. 10c..... 5
— <b>Dish Cloth</b> ..... 10	— <b>Everlasting Peas</b> —Mixed colors..... 5
— <b>Sugar Trough</b> ..... 10	<b>Thunbergia</b> —Rapid-growing, free blooming climbers, well suited for house culture; baskets or vases..... 10
— <b>All Varieties Mixed</b> —Includes the above and many other varieties..... 5	<b>Tropaeolum</b> —One of the most desirable of the annual climbers; easily grown in any common garden soil; produces an abundance of flowers of handsome shades or various bright colors:
<b>Ipomea</b> —Embraces a large class of plants, much admired for their fine foliage and handsome flowers; free bloomers and rapid growers:	— <b>Peregrinum</b> —(Canary Bird Flower)—Curious light yellow flowers; resembles our pet canary birds..... 10
— <b>Bona Nox</b> —Large purplish flowers; blooming at night; often called Good Night, Evening Glory or Moon Flower..... 5	— <b>Lobbianum Spittle</b> —Bright scarlet..... 5
— <b>Purpurea</b> —(Morning Glory)—Mixed..... 5	— <b>Finest Mixture</b> —All sorts..... 5
— <b>Quamoclit</b> —(Cypress Vine)—Mixed colors..... 5	— <b>Majus</b> —(Tall Nasturtium)—Best mixed..... 5

## BIENNIALS AND PERENNIALS.

Plants of these do not flower till the second season; among them are some of our best-known and highly-prized flowers. Seed may be sown in spring where plants are to bloom, or later in the summer in beds protected from the hot sun and kept moist.	
<b>Aquilegia</b> —(Columbine)—Very hardy and easily grown. Flowers of all shades; mixed varieties..... 5	— <b>Double, Very Fine Mixed</b> ..... 10
<b>Aconitum Napellus</b> —(Monk's Hood)—Does well under shade..... 5	<b>Hyacinthus Candicans</b> —A vigorous grower, throwing up flower stalks three to four feet high, with beautiful, white drooping flowers; fine for mixing in beds of Gladiolus..... 10
<b>Carnation</b> —The finest of the Dianthus or Pink family, very fragrant. Our seed is unsurpassed:	<b>Lathyrus Latifolius</b> —(Perennial Peas)—Handsome, free flowering plants, growing five to ten feet high, die down to the ground every winter, starting up again in the spring; fine mixed..... 5
— <b>Double Extra Mixed</b> ..... 20	<b>Sweet William</b> —(Dianthus Barbatus)—For richness and diversity of color the flowers of the Sweet William are hardly equaled; perfectly hardy:
— <b>Selfs Mixed</b> ..... 10	— <b>Single Varieties Mixed</b> ..... 5
— <b>Perpetual or Tree</b> ..... 25	— <b>Double Varieties Mixed</b> ..... 10
<b>Canterbury Bell</b> —A free blooming and very handsome border plant; flowers bell-shaped:	<b>Viola Odorata</b> —(Sweet Violet)..... 10
— <b>Single Mixed</b> ..... 5	— <b>All Varieties Mixed</b> ..... 10
— <b>Double Mixed</b> ..... 5	<b>Wallflower</b> —Plants removed to pots in autumn will produce an abundance of delightfully fragrant flowers; half-hardy:
<b>Delphinium Chinensis</b> —(Perennial Larkspur)—Well-known and very desirable border plants, producing their flowers on long spikes; fine mixed..... 5	— <b>Double Varieties Mixed</b> ..... 20
<b>Dahlia</b> —Strong growing bulbous plants with handsome flowers of all shades of color. The roots must be taken up and kept from frost through the winter:	— <b>Single Varieties Mixed</b> ..... 5
— <b>Double Large Flowering</b> —Mixed..... 10	<b>Veronica</b> —Extremely pretty little plants for edging; seed should be started early to be valuable the first of the season; mixed varieties..... 5
<b>Gladiolus</b> —From best hybrid varieties..... 15	
<b>Hollyhock</b> —A clump of double hollyhocks in full bloom is a great attraction, some of the flowers, especially the white, are a very good substitute for the Camelia:	

## MIXED FLOWER SEEDS FOR THE WILD GARDEN.

A mixture of a great number of such flower seeds as are suitable to be planted together. Altogether forming a mass of bright colored flowers and beautiful foliage which is sure to interest and please. Select a light rich soil, as free from weeds as possible, and plant in this latitude about the tenth of May. Half oz. 20c; pkt. 5c.



## SEEDS FOR THE GREENHOUSE.

Florists and amateurs can rely on our seeds being of the finest strains from the best European growers.

<b>Abutilon</b> —Fine mixed.....	25	<b>Fuchsia, Hybrida</b> —Finest double mixed.....	25
<b>Begonia, Tuberos Rooted</b> —Finest new single varieties; mixed.....	25	<b>Ferns, Best Varieties Mixed</b> .....	15
<b>Rex</b> —(Ornamental-Leaved Varieties)—Extra fine mixed.....	25	<b>Tree</b> , Fine mixed.....	25
—Mixed—Fourteen excellent varieties.....	15	<b>Geranium, Apple-Scented</b> —Per 100 seeds, 75c.....	25
<b>Calceolaria Grandiflora</b> —Mixed hybrids.....	25	<b>Zonale</b> —Fine mixed.....	10
<b>Cactus</b> Mixed varieties.....	25	—Tom Thumb—Mixed varieties.....	15
<b>Cineraria, Hybrida</b> —Mixed.....	25	<b>Gloxinia</b> —Choice mixture of French hybrids.....	25
—Maritima—White-leaved variety.....	10	<b>Heliotrope</b> —Fine mixed.....	10
—Candidissima.....	15	<b>Lantana</b> —Best mixed.....	15
<b>Clanthus Damperi</b> .....	25	<b>Fimula Sinensis</b> —(Chinese Primrose):	
<b>Coleus</b> —Mixed varieties.....	15	—Splendid Mixed.....	25
<b>Cuphea, Platycentra</b> —(True Cigar Plant).....	15	—Best Double Mixed.....	50
—Purpurea—Fine mixed.....	5	—Fimbriata Mixed.....	40
<b>Cyclamen, Persicum</b> —Best mixed.....	25	—Eliator—(Polyanthus).....	10
		<b>Vicia, Mixed Colors</b> .....	10

## ORNAMENTAL GRASSES.

These should be cut just as they come into bloom and dried in the shade. Very useful for working up with the Everlastings into winter ornaments; they lend a grace and beauty not obtainable without them.

<b>Agrostis Nebulosa</b> —Delicate and elegant.....	10	<b>Gynerium Argenteum</b> —(Pampas Grass)—A magnificent grass with graceful plumes twenty to thirty inches long. Roots must be kept from frost.10	
—Puichella—Very graceful.....	5	<b>Hordeum Jubatum</b> —(Squirrel's Tail).....	5
<b>Briza Maxima</b> —(Quaking Grass).....	5	<b>Lagurus Ovatus</b> —(Hare's Tail).....	5
—Gracilis—Smaller than above; very graceful.....	5	<b>Stipa Pennata</b> —(Feather Grass)—Very graceful and elegant.....	10
<b>Bromus Brizaeformis</b> —An elegant grass.....	5	<b>Zea Japonica</b> —(Striped Japanese Maize).....	5
<b>Coix</b> —(Job's Tears)—Fine for masses.....	5	<b>Mixed Grasses</b> —A mixture of the above ornamental grasses suitable to grow in masses; makes a very striking as well as useful collection.....	10
<b>Eragrostis Elegans</b> —(Love Grass).....	5		
<b>Erianthus Ravennae</b> —Similar to Pampas Grass and perfectly hardy.....	10		
<b>Eulalia Japonica</b> —An extra fine tall growing Japanese Grass, very fine for groups.....	10		



## PLANTS AND BULBS.

Our plants are all strong, healthy and vigorous. They are sent by mail, postpaid, at prices named. Our system of packing is so very complete that plants arrive in almost as perfect condition after traveling many hundred miles as they were when packed.

When plants are ordered to be sent by express, we not only send larger plants, but also put in enough extras to cover the express charges, and where it is possible to do so, we should advise our customers to have their plants shipped in this way.

No order amounting to less than One Dollar will be filled unless ten cents extra accompany same to cover extra cost for packing and postage.

<b>Abutilon</b> —(Flowering Maple)—Red, white and yellow.....	10	<b>Alfred Neuner</b> —Double white.....	20
— <b>Thomson Plena</b> —(See Novelties).....	25	<b>Pres. Garfield</b> —Double pink.....	20
<b>Achania</b> —Scarlet flowers; always in bloom.....	10	<b>Calla Lily</b> —Large white flowers; trumpet-shaped.....	15
<b>Aloysia</b> —Lemon Verbena.....	15	<b>Nona</b> —A dwarf variety, more desirable in every way.....	15
<b>Alyssum</b> —Large double. Double variegated and Tom Thumb; very dwarf variety; fine for borders.10		<b>Carnation Pinks, Snowden</b> —Best white for house or yard.....	10
<b>Begonia Flowering</b> —Ten best varieties; each.....	10	— <b>Crimson King</b> —Dark crimson.....	10
— <b>Rubra, Scarlet</b> —Everblooming.....	15	— <b>Fire Brand</b> —A fiery scarlet.....	10
— <b>Rubra, White</b> .....	25	— <b>Attraction</b> —Yellow and crimson splashed.....	10
— <b>Rex</b> —Ornamental leaved; twelve varieties.....	25	— <b>Buttercup</b> —The nearest approach to yellow.....	25
<b>Bouvardia</b> —Winter-blooming plants with clusters of waxy flowers like miniature tuberoses:		<b>Chrysanthemum</b> —We have not room to give a list of the large assortment we have of these most popular and desirable flowers. Tell us the color you desire and we can surely accommodate your order.....	15
— <b>Le Elegans</b> —Single scarlet.....	20		
— <b>Davidsoni</b> —Single white.....	20		



<b>Coleus</b> —Twenty of the best varieties; per doz. 75c. 10
<b>Cereus Grandiflora</b> —Night Blooming Cereus. 25
<b>Cineraria Hybrida</b> ..... 25
<b>Cyclamen</b> —Beautiful winter-blooming plants. 10
<b>Daisies</b> —Double, pink and white, each..... 15
<b>Ephiphylum</b> —Lobster Cactus..... 50
<b>Ferns</b> —In variety..... 25 to 50
<b>Feverfew</b> —Double white; a popular favorite. 10
— <b>Golden Feather</b> —For borders; per doz. 75c. 10
<b>Fuchsia—Avalanche</b> —Very pretty..... 10
— <b>Black Prince</b> —Rose corolla; sepals waxy carmine 10
— <b>Carl Holt</b> —Pure white, corolla crimson, striped white 10
— <b>Earl of Beaconsfield</b> —Flower three inches long; carmine 10
— <b>Elm City</b> —Double purple 10
— <b>Emma Topfer, or Storm King</b> —(See Novelties.) 25
— <b>Edm. Vanderstrauss</b> —Double white..... 15
— <b>Phenomial</b> —(See Novelties.)..... 25
— <b>Snow Fairy</b> —Finest double white..... 15
— <b>Speciosa</b> —Blooming nearly all the time. 10
And many other varieties.
<b>Funkia Alba</b> —Day Lily; pure white..... 25
<b>Farfugum Grand</b> —(Leopard Plant)—Rich dark green foliage with bright yellow spots. 25
— <b>Snow Flake</b> —A variety of the above with the leaves edged and splashed with white and often tinged with pink..... 50
<b>Gloxinias</b> —Summer and fall blooming..... 50
<b>Geraniums, Fancy Leaved</b> —Mad. Pollock and Sunset..... 25
—Mt. of Snow, Happy Thought, Distinction, Crystal Palace Gem, Golden Circle, Cloth of Gold, Mad. Salierol, Marshal McMahon, and Bismark, each. 10
— <b>Scented</b> —Apple, Nutmeg, Rose, Balm, Lemon, Peppermint, Oak Leaf, Mrs. Taylor, Skeleton Leaf and Variegated Rose, each..... 10
— <b>Ivy</b> —Ten choice varieties, each..... 10
We have not space to list all, but will here name a few of the leading flowering sorts:
— <b>Single, Queen of the West</b> —Orange scarlet, best bedding variety..... 10
— <b>Senator Allison</b> —Dark velvet scarlet, large white eye..... 10
— <b>Le Grande</b> —Large scarlet, white eye..... 10
— <b>Geoffrey</b> —The darkest single scarlet grown, fine..... 10
— <b>Master Christine</b> —Bright pink, splendid bloomer..... 10
— <b>Jealousy</b> —Large orange yellow..... 10
— <b>New Life</b> —Scarlet and white striped, no two flowers alike, very attractive..... 10
— <b>Cygnut</b> —The best single white..... 10
— <b>Peach Blossom</b> —The color of a Peach Blossom exactly..... 10
— <b>Double Ami Hoseie</b> —Rich deep crimson; one of the best..... 10
— <b>Henry Cannell</b> —Intense deep scarlet; one of the best for bedding..... 10
— <b>Asa Gray</b> —Orange salmon; extremely good bloomer..... 10
— <b>La Constitution</b> —Yellowish salmon; very fine..... 10
— <b>Mrs. Garfield</b> —Bright rose pink..... 10
— <b>Bishop Wood</b> —Scarlet, shading to vermilion..... 10
— <b>Bridal Bouquet</b> —Handsome double, pure white..... 10
— <b>Blond</b> —Delicate pink; splendid bloomer..... 10
— <b>Phallus</b> —A rich apricot orange; fine..... 10
— <b>Cherfulness</b> —A flesh pink shaded rose; free bloomer..... 10
<b>Heliotropes</b> —Universal favorites on account of their delightful fragrance; flowering equally well in summer or winter..... 15
— <b>Hoya</b> —(Wax Plant)—For house culture..... 25
— <b>Hybiscus</b> —Bloom freely in summer; scarlet..... 25
— <b>Hydrangea</b> —White and pink, each..... 15
— <b>Ivies</b> — <b>English</b> —No vine excels this..... 15
— <b>German</b> —Grows very fast..... 10
<b>Impatiens Sultana</b> —An ever-blooming plant of the Balsam family; fine for pots or bedding; bright crimson..... 15
— <b>Lucy</b> —Flowers rose color..... 15
<b>Jasmine Grandiflora</b> —White, star-shaped flowers, very fragrant..... 25
<b>Lantanas</b> —Nothing gives more constant bloom than these; ten varieties, each..... 15

<b>Lopesia Rosea</b> —(Mosquito Plant)—A beautiful plant of trailing or bushy habit, which is covered all winter with delicate pink flowers, resembling a mosquito..... 10
— <b>Alba</b> —Like above, only white..... 10
— <b>Maurandia Vine</b> —Pretty for baskets..... 10
— <b>Myosotis</b> —(Forget-me-not)—Two varieties..... 10
— <b>Marguerite Daisy</b> —Single white..... 10
—Double yellow..... 30
<b>Mountain Pink</b> —(Crassulid)—A fine plant for baskets or rockeries; flowers bright pink, two inches in diameter..... 10
<b>Musk Plant</b> —Flowers yellow..... 10
<b>Oleander</b> —Double pink..... 25
— <b>Single White</b> ..... 25
<b>Oxalis</b> —Fine pot or basket plant..... 10
<b>Othonna</b> —Good basket plants; flowers bright yellow..... 10
<b>Petunia</b> —We have all of the finest double fringed varieties; many colors..... 15
<b>Pansies, Choice Mixed</b> ..... Per dozen 50c.
— <b>Finest Mixed</b> ..... Per dozen 75c.
—White and other colors separate..... Per dozen 75c.
<b>Primula</b> —(Chinese Primrose)—Pink and white, each..... 25
<b>Pelargoniums</b> —(Lady Washington Geraniums)—A large assortment of these beautiful plants..... 15
<b>Roses</b> —While we have a large variety of roses, we will only name here those which have been tried and found to be the best and most reliable for house culture or bedding purposes:
— <b>Aurora</b> —Beautiful blush, changing to white..... 15
— <b>Bon Silene</b> —Bright carmine rose..... 15
— <b>Catharine Mermet</b> —Bright flesh color..... 15
— <b>Cornelia Cook</b> —Creamy white..... 15
— <b>Douglas</b> —Rich crimson..... 15
— <b>Duchess de Brabant</b> —Silvery pink..... 15
— <b>Glorie de Dijon</b> —Blue yellow, very fragrant..... 15
— <b>Hermosa</b> —Light rose..... 15
— <b>Isabel Sprunt</b> —Light canary yellow..... 15
— <b>Pearl des Jardins</b> —Beautiful rich yellow, very large..... 15
— <b>Safrano</b> —Saffron yellow, very free bloomer..... 15
— <b>Sunset</b> —Beautiful orange yellow..... 15
Any of the above at \$1.20 per dozen.
— <b>Hybrid</b> —La France and Gen. Jacquiminot..... 25
<b>Salvia, Red, White, Blue and Maroon</b> —Each..... 10
— <b>Stevia</b> —Fine for winter blooming..... 10
— <b>Variegated</b> —Foliage striped..... 10
<b>Smilax</b> —Prettiest vine in cultivation..... 15
<b>Violets, Louise</b> —Double purple..... 15
— <b>Swanley White</b> —Double..... 15
<b>Verbenas</b> —One of our best and most popular bedding plants. Plants set out in April or May will give a mass of bloom all through the summer and fall months. We have a splendid variety of the best colors and shadings. Dozen, 85c..... 10

## BULBS FOR SPRING PLANTING.

Many of the most showy, attractive, inexpensive and easiest grown of all summer and autumn flowers are contained in this important class. There are scarcely any others flower that can compare with the noble and brilliant spikes of the Gladiolus, the grace and elegance of the Lily, the purity and sweetness of the Tuberosa, the majestic foliage of the Caladium, and the wonderful markings of the Tigrida. Bulbs for spring planting require scarcely any care, and quickly make a gorgeous display, while the bulbs can be kept over winter, and will year after year continue to return a hundred-fold in beauty and satisfaction the trifling expense of the original cost.

In the following list we have selected the varieties which we believe will give our customers the best satisfaction. The bulbs are large and strong and will be sent, well packed, in the same parcels with flower or vegetable seeds, plants or other goods. We trust all who have a flower garden will include some of these bulbs in their order. Sent postpaid at price named.

<b>Amaryllis, Formosissima</b> —(Jacobean Lily)—Dark velvety crimson. Bulbs may be potted any time in spring; they bloom year after year; must not be allowed to freeze..... 40
<b>Caladium, Esculentum</b> —A splendid tropical plant growing four or five feet with immense leaves beautifully veined and variegated with different shades of green. Very showy, leaves frequently growing three feet in length. Medium sized bulbs 20c; very large..... 40



- Canna**—Beautiful foliage plants of very tropical appearance; growing from three to six feet high. In fall store in a dry cellar:
- Grandiflora** ..... 20
- Tall Red** ..... 15
- Tricolor Dwarf** ..... 20
- Mixed Varieties and Colors**—Contains a splendid assortment; per dozen \$1.10 ..... 10
- Dahlias**—We have a large collection of these exceedingly showy and grand fall flowers, and can furnish almost any color desired. They comprise all the most gorgeous shades and colors imaginable; per dozen \$1.50 ..... 15



**GLADIOLUS.**

We wish especially to call your attention to our list of Gladioli, the most desirable of all bulbs, and claimed by many well acquainted with their wonderful and varied beauty, to be the flower of all flowers. Our stock is from a magnificent collection, and the following are selected to meet the wants of the most fastidious, and sure to fulfill all expectations. To have the immense spikes of bloom develop in the greatest perfection, they should be cut when the first four flowers open; place them in water nearly up to the lower flower; and the entire spike will develop into the greatest loveliness, lasting from a week to ten days.

To have a constant succession of flowers, the bulbs should be planted at intervals from the middle of April until the first of July.

We cannot too highly recommend our mixed Gladiolus. We have had them grown for us and they have been carefully selected from choice varieties and embrace a truly magnificent variety of beautiful colors:

- Red Varieties Mixed**—Per doz. 50c. .... 5
- Light, White and Striped**—Per doz. \$1 ..... 10
- Choice Yellow Varieties, Mixed**—Per doz. \$1.50 ..... 15
- Extra Fine Mixed**—Embracing all colors; per 100, \$2.50; per doz. 40c. .... 5
- Seedlings**—A splendid assortment grown from the best hybrid mixed seed: There are sure to be a number of choice new varieties among these. Per 100, by express, \$3; doz. 50c. .... 5
- Pure White** ..... 10
- Ceres**—Pure white blotched purplish rose. .... 15
- Arsinoe**—Fine satiny rose, flamed with bright carmine ..... 15
- Brenchleyensis**—Deep vermilion scarlet. .... 5
- Eugene Scribe**—Light pink, glazed with carmine; flowers very large and perfect. .... 15

- James Carter**—Light orange red with white blotch ..... 15
- Le Ponsin**—Light red; large white throat. .... 15
- Meyerbeer**—Rose scarlet, amaranth; red blotch. 25
- Napoleon III**—Bright scarlet, white stripe. .... 15
- Princess of Wales**—White, flaked with carmine rose ..... 10
- Shakespeare**—Very large, beautiful flowers; white, slightly suffused with carmine rose, with large, violet crimson blotch. .... 20
- Le Moine Seedlings**—A fine collection of this new and distinct variety. .... 15
- Hyacinthus Candicans**—Beautiful summer blooming plants, having large spikes of large flowers resembling the Hyacinth: per doz. \$1 ..... 10
- Maderia Vine**—Ornamental climber of very rapid growth, thick, light green, glossy leaves; the most elegant vine for out-door culture; keep roots in cellar over winter; per 100, by express, \$2.50; by mail, per doz. 50c. .... 5
- Double Tuberoses**—The roots of this delightfully fragrant, pure white, wax like, double flower may be planted from February to July; before planting remove the small offsets; use good, rich soil, plant in six inch pots, one root in a pot:
- Extra Large Double Dwarf Pearl**—This is an extra choice selection of this variety, which is characterized by its short, robust stem and long spikes of large flowers, produced in great profusion, perfectly double; per doz. \$1 ..... 10
- Tall Double**—Per doz. \$1 ..... 10
- Tigridias**—A splendid summer flowering bulb, bearing large spotted flowers:
- Red Spotted**—Per doz. \$1 ..... 10
- Yellow Spotted**—Per doz. \$1 ..... 10
- White Spotted**—Very handsome ..... 15
- Oxalis**—Quite pretty little flowers, suitable for hanging baskets, pot culture or for use in bordering beds:
- Lasiandra**—Per doz. 20c.
- Beppii**—Per doz. 20c.
- Lilies**—The Lily is a favorite flower everywhere—a Queen of Flowers—and only the Rose can dispute its claim to queenly honor. With few exceptions Lilies succeed in our gardens finely:
- Auratum**—The Golden-rayed Queen—its immense blooms, produced in great profusion, are deliciously fragrant and very beautiful. .... 25
- Candidum**—Pure white, good for forcing ..... 20
- Harrisi**—The new perpetual White Lily ..... 25
- Rubrum**—Rose, spotted crimson. .... 25
- Tigrinum**—Common Tiger Lily ..... 10
- Speciosa Album**—Large, pure white flowers on full, well rounded spikes. .... 25

**WINTER BLOOMING BULBS.**



Some of the most beautiful and fragrant of all the flowers grown belong to this class, and when potted in the house they come in bloom just at the time when flowers are most wanted and the most difficult to obtain. There is nothing prettier or more desirable than a window garden nicely arranged with these, and they will attract more attention than anything else with which it could be filled.

Our bulbs which are grown by one of the best bulb growers in Holland, arrive in this country about September 15th, and we usually have a good assortment of them for about two months. The best way is to order during the spring or summer, and then your order will be filled as soon as bulbs are received. All bulbs are large and strong and are sent by mail prepaid on receipt of price.

**Hyacinths**—Of all the bulbous flowers, the Hyacinth is the most beautiful and popular. It is cultivated and highly prized in every northern country in the world. They may be successfully grown in the garden or for house culture in pots or



glasses. Either double or single of any of the following colors:

—Pure White, Rose, Red and Blue—Per doz. \$1.75	..... 15
—Double or Single Yellow—Per doz. \$2.25	..... 20
—Double or Single Mixed Colors—Per doz. \$1.10	..... 10
<b>Roman Hyacinths</b> —Earliest of all, will bloom by holidays; produces three to seven flower stalks; per doz. \$1	..... 10
<b>Tulips</b> —Nothing can excel these for early spring blooming in the open ground. Can furnish separate colors when desired:	
—Extra Choice Mixed Colors—Per doz. 75c	..... 8
—Good Mixed Colors—Per doz. 40c	..... 5
—Parrot, Mixed Colors—Beautifully fringed varieties; per doz. 50c	..... 5
<b>Crocus</b> —All Colors Mixed—Per 100, \$1; doz. 15c	
<b>Narcissus, Mixed Colors</b> —Per doz. \$1.50	..... 15
—Poetians—Per doz. 50c	..... 5
—Paper White—Per doz. \$1.50	..... 15
<b>Lillium Candidum</b> —Per doz. \$2	..... 20
<b>Lily of the Valley</b> —Per doz. \$1	..... 10
<b>Snow Drop—Double</b> —Per doz. 60c	..... 5
—Single—Per doz. 35c	..... 5
<b>Maderia Vine</b> —Per doz. 50c	..... 5

### Russian Mulberry Trees for Silk Culture.

The culture of silk is better adapted to home industry than any other branch of work which opens so large a field in the commercial market, it being valuable as a commodity and always in demand. It particularly commends itself to women and children of the rural districts.

The Russian Mulberry is by far the best variety for silk culture. It is a very rapid grower, and is perfectly hardy. The leaves are mostly lobed or cut and make unequalled food for the silk worms. The fruit has an aromatic flavor and sub-acid sweet taste and is very much liked by some, although there are other varieties which excel it in this respect. The Mennonites, who first brought it to this country, use it as an ornamental hedge plant, and it really makes a beautiful hedge.

Our stock is grown specially for the mail trade, and we offer them at the following prices by mail, postpaid: Two to four inches high, eighty for \$1; four to six inches high, fifty for \$1; six to twelve inches high, thirty for \$1; twelve to eighteen inches high, twenty for \$1. Prices on larger sizes or on large lots by express or freight on application:

**Russian Mulberry Seed**—Per pkt. 10c; oz. 40c. ¼ lb. \$1.25; lb. \$4.

**Silk Worm Eggs**—(French Yellow, or White Japanese)—Per 1,000, 50c; ¼ oz. \$3; oz. \$5, postpaid.

A complete Text Book on Silk Culture, containing all the information and instruction necessary for a person to know in order to succeed in this business fully illustrated; price is 25c; but by purchasing a large number we are enabled to offer them to our customers at only 15c each.

### → TREES, PLANTS AND SHRUBS. ←

BY EXPRESS OR FREIGHT ONLY.

Trees, shrubs, or plants from this list can be sent only by freight or express. They are all strong and healthy from open ground. Stock in this list is supplied by a reliable nurseryman, and will be shipped direct from the nursery in Des Moines, about April 15th.

Of apples we can supply about 150 varieties, and can generally supply any kind ordered. We can most cordially recommend all to try these, everything is A 1 in quality and prices are reduced to the lowest point possible for first-class stock. No premiums or discounts can be allowed on this list. One-half dozen sold at dozen rate, and twenty-five at the one hundred rate. It will pay persons who want a large amount of nursery stock to send us list of same and we will quote special prices:

**Apple Trees**—No. 1, four to six feet; select, each, 20c; doz. \$2; 100, \$15.  
—Second selection, four to five feet; each, 15c; doz. \$1.50; 100, \$12.50.

**Crab Apples**—Transcendent, Hyslop, Quaker Beauty and many others; each, 40c; doz. \$4.  
**Cherries**—Early Richmond, English Morello, Gov. Wood and Montgomery; four to six feet; each, 50c; doz. \$5; three to four feet; each, 40c; doz. \$4.

**Plums**—Four to six feet, a fine assortment; each 50c; doz. \$5.

**Pears**—Bartlett, Clapp's Duchess, Vicar, Keiffer and many others, both standard, four to six feet, and dwarf, three to four feet; each 50c; doz. \$5.50.

**Mulberry**—Russian, four to six feet; each 40c; doz. \$4.

**Grapes**—Concord, one year, No. 1; doz. \$1.25; 100, \$7.  
—Concord, two year, No. 1; doz. \$1.50; 100, \$10.

—Warden, best early, hardy as Concord, two years; doz. \$1.75; 100, \$15.

—Martha, Elvira and Rogers' Hybrids and many other kinds, two years; each 20c; doz. \$2; 100, \$15.

—Prentiss, Pocklington and Lady, two years; each 25c; doz. \$2.50.

—White Niagara—Each \$1; doz. \$10.

**Currants**—Best sorts, two years; doz. \$1.50; 100, \$10.

**Gooseberries**—Two years, Houghton; doz. \$1.25; 100, \$8.

—Two years, Downing; doz. \$1.50; 100, \$10.

**Raspberries**—Mammoth Cluster, Turner, Gregg, Cathbert, Thwack, etc.; doz. 75c; 100, \$5.  
—Souhegan and Tyler; doz. \$1; 100, \$7.

**Blackberries**—Snyder, hardy, abundant bearer; best, 75c per doz.; \$5 per 100.

**Strawberry**—Wilson, Crescent, Cumberland, Triumph, Chas. Downing, Kentucky, Seth Boyden and Downer's Prolific; 25c per doz.; \$1.00 per 100; \$7 per 1,000.

**Evergreens**—Scotch Pine, two feet; each 30c.

—Austrian Pine, eighteen inches; each 25c.

—Norway Spruce, two to five feet; per foot 20c.

—Riga Pine, six to nine inches; each 25c.

—Red Cedar, ten to fourteen inches; each 25c.

—Red Cedar, for lawns, three to four feet; each 75c.

—Balsam Fir, ten to fourteen inches; each 25c.

—Arbor Vita, two feet; each 40c.

—American White Spruce, two feet, fine; each 50c.

—Silver Spruce and Douglas Fir, from Colorado, ten to fourteen inches; each 50c.

**Deciduous Ornamental Trees**—Catalpa and Silver Birch, six to eight feet; each 50c.

—Catalpa and Silver Birch, four to six feet; each 40c.

—Mountain Ash and Rock Maple, four to six feet; each 60c.

**Weeping Trees**—Kilmarnock Willow and Cut Leaved Weeping Birch, four feet; each \$1.

—Weeping Mountain Ash, fine, five feet; each \$1.25.

—Wisconsin Weeping Willow and Silver Maple, five to six feet; each 60c.

**Shrubs**—Weigela, Snowball, Flowering Almond, Hydrangea, Lilac, Dogwood, Barberry, Tree Honeysuckle, Rose Acacia, a large collection of the finest Spiraea and other varieties of Shrubs, all strong plants; each 50c.

**Vines and Creepers**—Ampelopsis, Bignonia, Honeysuckle, Wisteria, Bittersweet, etc.; each 50c.

**Peonies**—Daisytras; each 35c.

### HARDY ROSES.

All should have some of these beautiful, outdoor Roses. The following are the best varieties:

**Prairie Queen**—Bright pink, climbing; each 50c.

**Baltimore Belle**—Pale blush, variegated, climbing; each 50c.

**Augusta Me**—Large, clear, bright pink, very fragrant; each 50c.

**Gen. Washington**—Bright vermillion rose, large, fine form and perfectly double and a very free bloomer; each 60c.

**Madame Plantier**—Pure white flower of most perfect form, blooms only in spring, but is literally covered with flowers then; beautiful for cemetery decorations; each 50c.

### The Best Seeds are the Cheapest.

CAMANCHE, IOWA, Sept. 30, 1887.

I will say that what seeds I have purchased of you have been satisfactory. I like your seeds very much, and shall get them of you when I want seeds.

W. E. RICHARDSON.

### Valuable Testimony.

MINERAL RIDGE, IOWA, March 17, 1887.

I purchased seed of you last year and was well satisfied with them. Next year I think I will buy more extensively. Wishing you success,

E. M. CROMBER.



## MISCELLANEOUS FARM SEEDS.

### CHOICE RECLEANED GRASS SEEDS, ETC.

We desire to call the especial attention of the farmers of Iowa and the Northwest to our superior facilities for supplying them with Blue Grass, Timothy, Clover, etc., of the best quality. This branch of our trade has made a remarkable growth, which we attribute to our great care and close attention in the handling of farm seeds. Where we used to handle grass seed by the bag only, we now buy and sell by the car load. With improved machinery for cleaning, together with the shipping facilities of our city, which are unequaled by any other point in Iowa, we are confident it will be greatly to your advantage to send us your orders for what you may need, be it a large or small quantity. We will take pleasure in quoting special prices on larger quantities than listed below, or giving any information that we are able to.

### SHIPPING.

In this department every thing which is quoted by the packet or pound is sent by mail *postpaid*; all larger quantities, unless specially noted, are sent by express or freight, at the expense of the purchaser. No extra charge for bags or delivering at depots. The prices quoted by the bushel are subject to any important change in the market without notice. But if price goes lower than that quoted, persons ordering will be given the benefit of it.

### CLOVER SEEDS.

The soils best adapted to Clover are tenacious or stiff loams. It is a fertilizer, as its long powerful tap roots loosen the soil, admit air, and when the roots decay, add largely to the black mass of earth. It helps destroy annual weeds by the luxuriant foliage, and by shading the surface of the soil, increases its fertility. It weighs sixty pounds to the bushel:

**Mammoth, or Large Red**—This variety is the best for ploughing under for manure. It grows five or six feet high. Sow twelve to fifteen pounds per acre; per lb. 40c; 3 lbs. \$1; pk. \$1.60; bu. \$6.

**Medium Red or June**—Grown for hay or for pasture. For milch cows it is better than timothy, while it improves the lands on which it is grown. Sow twelve to fifteen pounds per acre; per lb. 35c; 3 lbs. \$1; pk. \$1.50; bu. \$5.75.

**Alyse or Swedish**—Very hardy, withstanding the rigors of our cold winters, without injury; a wonderful cropper, being less injured by extremes of wet and dry seasons than any of the clovers. Its long fibrous roots completely permeating the soil, making it a great fertilizer. Sow seven pounds per acre; per lb. 50c; 3 lbs. \$1.25; pk. \$2.50; bu. \$9.

**White Dutch**—A small, creeping, spreading variety, much used for lawns, with white, very fragrant blossoms. Sow six pounds per acre; per lb. 50c; 3 lbs. \$1.25; pk. \$2.25; bu. \$12.

**Alfalfa, or Lucerne**—For loose, rich soils with porous subsoils, there is probably no forage plant equal to this. Its roots penetrate very deep, in some cases as much as fifteen feet, thus enabling it to produce heavy crops where all other grasses dry out entirely. Makes a splendid sollar, requires heavy seeding. Sow fifteen to twenty pounds per acre; per lb. 50c; 3 lbs. \$1.25; pk. \$3; bu. \$11.25.

### GRASS SEEDS.

**Timothy**—As a crop to cut for hay, this is probably unsurpassed by any grass in cultivation. Thrives best on moist, loamy soils, of medium tenacity. Sow either in spring or fall; twelve pounds per acre; weighs 45 lbs. per bushel; per lb. 35c; 3 lbs. \$1; pk. 75c; bu. \$3.

**Orchard Grass, or Cock's Foot**—One of the most valuable of pasture grasses, on account of its quick growth and luxuriant aftermath. It is ready for grazing in the spring two weeks sooner than most grasses, and when fed off is again ready for grazing in a week. It stands a severe drouth, keeping green when many grasses wither, and will endure considerable shade. Sow one bushel per acre; weighs 14 lbs. per bushel; per lb. 60c; 3 lbs. \$1.60; pk. 75c; bu. \$2.50.

**Red Top**—Makes a good pasture when fed close. Is valuable for low, wet meadows, producing a large return in good hay. Sow in the spring or fall; one bushel per acre; weighs 14 lbs. per bushel; per lb. 35c; 3 lbs. 90c; pk 50c; bu. \$1.25.

**Kentucky Blue Grass**—This makes excellent pasture grass for our soil and climate, succeeding finely on our hill lands, and producing the most nourishing food for cattle, retaining its qualities till

a late period in the winter, and farther south affording abundant food through the winter. Two bushels of extra clean, or one bushel of fancy clean seed should be sown per acre. It forms the finest and closest of lawns; for this purpose and extra quantity of seed should be used; say four to six bushels per acre; 14 lbs. per bushel.

**Fancy Clean Seed**—Per lb., 50c; 3 lbs. \$1.25; pk. 75c; bu. \$2.25.

**Extra Clean Seed**—Per lb. 40c; 3 lbs. \$1; pk. 60c; bu. \$1.75.

### English Blue Grass, or Meadow Fescue

—More robust than Kentucky Blue Grass, produces more pastureage, and stands the heat of summer well. Makes excellent hay. Sow in spring or fall, one bushel per acre; weighs 24 lbs. per bushel; per lb. 50c; 3 lbs. \$1.25; pk. \$1.25; bu. \$4.

**Perennial Rye Grass**—A very valuable variety for permanent pasture, and makes a large return in hay; very nutritious. Succeeds best in moderately moist land, for which it is peculiarly adapted; per lb. 50c; 3 lbs. \$1.25; pk. 75c; bu. \$2.25.

**Crested Dogstail**—One of the finest of lawn grasses, valuable on dry hard soils and hills for pastureage; twenty pounds per acre; 16 lbs. per bushel; per lb. \$1; pk. \$2; bu. \$7.

**Sweet Vernal Grass**—One of the earliest in spring, as well as the latest in autumn, mixed with other grasses it is valuable for lawns, exhaling a delightful fragrance when in bloom; per lb. 75c; 3 lbs. \$2.

**Tall Fescue**—(*Festuca elatior*)—Root fibrous, somewhat creeping, perennial, flowers in June and July. It thrives well on moist soils, and yields abundant crops. Cattle and stock eat it greedily; per lb. 50c; 3 lbs. \$1.25; pk. \$1.75; bu. \$6.

**Hard Fescue**—(*Festuca arvenscula*)—Is found in all the finest permanent pastures in the country, and is much valued for its dwarf habit. It resists the summer drouth, and develops remarkable verdure during winter. It should form a part of every mixture for lawn or pleasure grounds, and for permanent pasture and alternate husbandry; per lb. 35c; 3 lbs. \$1; pk. \$1.50; bu. \$5.50.

**Meadow Foxtail**—Roots fibrous, perennial, flowers in May. This is one of the best grasses for permanent pastures, and should always form a fair proportion of the mixtures for that purpose, because of its extremely rapid growth and nutritive qualities. Thrives best on a rich, strong soil; per lb. 60c; 3 lbs. \$1.50; pk. 85c; bu. \$3.

**Rough Stalked Meadow Grass**—Root fibrous, perennial. This grass is valuable on account of its quick growth, productiveness and nutritive qualities. Grows in perfection on moist, rich soils, and is also well adapted to ground shaded by trees. Grows early in the spring, and continues green until late in the fall; per lb. 40c; 3 lbs. \$1; pk. \$1.50; bu. \$5.50.

**Common Millet**—A well known and valuable annual forage plant, produces immense crops, especially valuable for cattle; 48 lbs. per bu.; one bu. per acre; per lb. 30c; pk. 60c; bu. \$1.60.



**German, or Golden Millet**—Much superior to common millet, producing more and larger leaves and a more nutritious stalk, the seed is richer and the heads are larger. For hay it should be cut as soon as well headed; 48 lbs. per bu.; one bu. per acre; per lb. 35c; pk. 50c; bu. \$1.60.

**Hungarian Grass**—This is a species of millet, growing less rank, with smaller stalks, often yielding two or three tons of hay per acre; 48 lbs. per bu.; one bu. per acre; per lb. 30c; pk. 50c; bu. \$1.50.

**Johnson Grass**—A perennial grass belonging to the sorghum family, a rapid grower, very nutritious both for hay and grazing, comes very early in spring

and will grow till cut down by frost. Two or three crops can be cut in a season. Sow one bu. per acre; per lb. 60c; 3 lbs. \$1.50; pk. \$1.50; bu. \$5.

**Teosinte**—(*Reana Luxurians*)—A Central American forage plant, in leaf and stalk somewhat resembling corn, leaves longer and broader. It stools like oats, and is very sweet and nutritious; per pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

**Darra, or Sorghum Vulgare**—It is a valuable forage plant, growing from eight to ten feet in height and yielding an abundance of grayish-green foliage greatly relished by stock. It is frequently grown for grain for poultry and yields largely; per lb. 40c.

## MIXTURES FOR PERMANENT PASTURES.

"One thing is certain: that good pasture land is the foundation of the riches of a farm."—SINCLAIR.

Farmers, as a rule, in preparing their mixtures of grasses to be used in the laying down of permanent pastures, confine themselves to too few varieties, thus failing to arrive at the most profitable results. The chief properties which give value to a grass are nutritive powers, produce, early growth, and reproductiveness (i. e., the property of growing rapidly after being cropped.)

Our pastures have heretofore been sadly neglected, so much so that in many instances the word "pasture" is become synonymous with the poorest land of the farm. Successful dairying and stock-breeding, however, demand better grazing. There is a vast margin for improvement and increased profits, between the three to five acres per cow of some of our older states, than the two to three cows per acre of Holland.

While the expense of making a pasture is considerably more than the common timothy and clover pastures so prevalent in this state, still it must be remembered, that by using this mixture the pasture is kept green throughout the season and furnishes good grazing the year around, except when covered with snow, not only for one year, but if the land is properly cared for, it will remain in good condition for fifteen or twenty years without further sowing and produce double the amount of fodder, while the ordinary sowing has to be repeated every three or four years; thus in the end costing four or five times as much as our mixtures.

All grasses have there season, and their is not a month from April to September in which some of the following do not attain their full perfection. Those for spring pasture we have marked \*; for summer, †; for autumn, ‡.

Table showing the Proper Quantities to sow on an Acre of Light, Medium, or Heavy Soils, for Permanent Pasture.

KIND.	No. 1.	No. 2.	No. 3.	No. 4.
	Light Soils.	Medium Soils	Heavy Soils.	For Orchards and shady places.
*Timothy.....	3 lbs.	3 lbs.	4 lbs.	3 lbs.
†Red Top.....	4 "	4 "	6 "	3 "
*Orchard Grass.....	8 "	6 "	4 "	6 "
*Meadow Fescue.....	2 "	2 "	1½ "	—
†Hard Fescue.....	—	1 "	2 "	2 "
†Tall Fescue.....	2 "	2 "	4 "	1 "
†Kentucky Blue Grass.....	5 "	4 "	2 "	5 "
†Trough Stalked Meadow.....	—	2 "	4 "	6 "
*Perennial Rye Grass.....	2 "	3 "	3 "	—
*Meadow Fox Tail.....	1 "	2 "	2 "	2 "
†Crested Dogstall.....	2 "	1 "	—	4 "
*Sweet Vernal.....	2 "	1 "	—	—
†White Clover.....	4 "	4 "	4 "	5 "
†Alsike Clover.....	1 "	1 "	½ "	—
†Medium Red Clover.....	2 "	3 "	3 "	3 "
Total number of pounds.....	38 lbs.	39 lbs.	41 lbs.	40 lbs.
Price per acre.....	\$8.00.	\$8.50.	\$9.00.	\$9.00.

When desired we can put all the kinds up in separate packages.

**IOWA SEED CO.'S EXTRA CHOICE MIXED LAWN GRASS**—The essentials for a fine lawn are proper drainage, a careful preparation of the soil, thorough rolling and a selection of the seeds of such grasses as will present a luxuriant verdure from early spring till late in autumn; and then frequent cutting with a lawn mower. We have prepared a mixture of such grasses as will, if properly cared for, produce an elegant green carpet from early spring till covered by the snows of winter. One quart will sow 300 square feet. Sow at the rate of 3 to 4 bushels per acre; 15 lbs. per bushel; per qt. 20c; 4 qts. 75c; pk. \$1.25; bu. \$4.00. If to be sent by mail, add 10c per quart.

See Lawn Fertilizers on another page.

Only One Quality, the Best.

SWAN, IOWA, August 29, 1887.

All your seeds did extra well this season. I think that every one grew, and all were true to name.

J. S. WEAVER.

What Our Customers Say.

EARLHAM, IOWA, August 30, 1887.

The seed I received from you gave good satisfaction. I expect to patronize you again.

T. A. MACY.



## SEED CORN.

The value of the corn crop in Iowa alone would be increased two million dollars by an average increase of only one bushel per acre, and it has been demonstrated that five to seven bushels can be added to the average crop by planting the improved kinds—while in many cases the crop can be nearly doubled. The necessity of planting the very best varieties is plain.

All seed corn is very carefully tested, and none sent out that we are not certain will grow well. Samples mailed when desired.

**THE PROFIT**—This corn, which was first introduced by us, is the result of cross-fertilization and over ten years of the most careful culture in Iowa. In this way we have succeeded in fixing a type superior to any variety with which we are acquainted, and we believe the most profitable for the farmer—and profit in corn raising, as we understand it, means the largest yield of *shelled* corn (not cobs) maturing in the shortest time, and of the best quality, and these are the points we claim for this variety; it will *shell* more than any other variety with which we are acquainted; has the deepest grain and the smallest cob, in proportion to the size of the ear; it is medium early, very straight rowed; the color is variegated from light sulphur to bright orange, being agreeably diversified, making it particularly striking in appearance. The great feature of this corn is its heavy ear, it has eighteen to twenty-two rows of very deep grains, packed in so closely as to have the appearance of having been driven in. The cob is very small in proportion to the size of the ear. Measurements of three varieties, averaged sized ears of each, resulted as follows: **PROFIT**, circumference of ear, seven and one-quarter inches; of cob, three and three-quarters inches; **SOLID CORN**, three and one-half inches. **LEAMING**, circumference of ear seven inches; of cob, four and one-half inches; **SOLID CORN**, two and one-half inches. **PRIDE OF THE NORTH**, circumference of ear, five and one-quarter inches; of cob, three inches; **SOLID CORN**, two and one-quarter inches. We believe we have been fully sustained in our claim that the Profit will produce more bushels of shelled corn per acre under like conditions than any corn yet introduced. It will *pay* every farmer to give this a trial; per lb. 40c; 3 lbs. \$1; pk. 90c; bu. \$3.

**Pride of the North**—This new variety has been grown and improved in the extreme northern part of Iowa, and is the earliest yellow Dent corn we know of. The ears are eight to ten inches long, with small cob and deep kernel; seventy pounds of ears will make sixty pounds of shelled corn; color bright orange and very uniform. Will mature in this latitude when planted in June; per lb. 40c; 3 lbs. \$1; pk. 65c; bu. \$2.

**Leaming**—The Leaming in character is somewhat of a Dent variety; ears are of good size, set low down, and nearly always two good ears to each stalk. Small, red cob, with a medium deep, long grain, of a rich, golden color. The Leaming has produced in this section some of the largest and handsomest crops we have ever seen. C. E. Herring, of Adair county, Iowa, writes: "I have tested twenty varieties in the last seven years, and find the Leaming far the best." Per lb. 35c; 3 lbs. \$1; pk. 65c; bu. \$2.

**Angel of Midnight**—The *Rural New Yorker* says of this corn: "Begins to ripen August 5, and is the earliest we have ever tried. Longest ears, 14 inches, 8 rows, over 60 kernels in a row. Kernels large, broad, yellow, flat. Plants six feet high only; very leafy at bottom—slender top, ears long, often two large ears to a stalk; stalk small, shanks long, cob small. This will certainly ripen, judging by this season, anywhere that corn will ripen; per lb. 40c; 3 lbs. \$1; pk. \$1; bu. \$3.

**Compton's Extra Early Flint**—The earliest known yellow field variety, ripening in 76 to 85 days. It is a handsome, ten to twelve rowed yellow variety; very productive, and will ripen planted as late as the first of July; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.50.

**Champion White Pearl**—An early medium sized pure white, deep grained, small white cob corn, especially adapted for milling; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.50.

**Sweet Corn for Fodder**—Especially valuable for feeding hogs and milch cows; commence feeding as soon as it will do for roasting ears, and continue till the corn becomes too dry, which will not be till

winter sets in. For milch cows it should be cut and wilted from twelve to twenty-four hours before feeding; per pk. 75c; bu. \$2.25.

**Large White Field**—Per pk. 60c; bu. \$2.

**Pop Corn**—See page 18 of Vegetable List.

## BROOM CORN.

Our broom corn seed is all saved from carefully selected hurl brush. Price given is per measured bushel. Please remember this in ordering, as a bushel according to the legal weight of Iowa equals only about two-thirds of a bushel by measure:

**Wilson's Improved Evergreen**—Grows about eight to ten feet high, stands up well, and is entirely free from crooked brush; the fibre is long and fine. Its greatest value to growers is in the fact that it will not get red in the field before it is cut, but is strictly a green variety of brush and will always command the highest price; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.75.

**Japanese Evergreen**—Mr. A. L. Doud, of Van Buren county, writes as that his crop of this NEW VARIETY was the finest he ever grew, brush fine, even, good color and of the very best quality; per lb. 40c; 3 lbs. \$1; pk. \$1; bu. \$3.50.

**Black Spanish**—Grows six to eight feet high with long, fine, straight brush of a light green color; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.50.

**Tall Evergreen**—A standard variety, brush green; per lb. 35c; 3 lbs. \$1; pk. 65c; bu. \$2.

**Dwarf Evergreen**—Similar to the tall except in height; per lb. 35c; 3 lbs. \$1; pk. 65c; bu. \$2.

**California Golden**—Long brush, which, when ripe, is a bright golden, yellow color, straight and handsome; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.25.

## FARM GRAIN, ETC.

**American Triumph Oats**—A hybrid of remarkable vigor, stiff straw, bright plump berry, yielding from sixty to one hundred bushels per acre; per lb. 35c; 3 lbs. 90c; pk. 75c; bu. \$2.

**Welcome Oats**—This new oat has produced some enormous yields, and it is by all odds, the heaviest, handsomest and most productive variety we know of, weighing from 48 to 50 pounds per measured bushel. They stood heavily with extra strong, straight straw, standing well. Succeeding in a wide range of climate, and under a great variety of soils and methods of culture; per lb. 35c; 3 lbs. 90c; pk. 60c; bu. \$1.50; 10 bu. \$11.

**Improved Saskatchewan Fife Wheat**—The yield of this splendid new spring wheat is simply extraordinary, in many cases doubling the general average. Read what the Milling Kings of the world say about it: From Charles A. Pillsbury, of the Pillsbury Flouring Mills (daily capacity, 7,500 bbls., requiring 36,000 bushels of wheat). "I consider it the best and purest Fife wheat to-day in the Northwest. No such milling wheat has been received at our mills since we have been in the milling business." From Washburn, Crosby & Co., proprietors of the Washburn Mills (daily capacity, 4,000 bbls., requiring 20,000 bushels of wheat). "After a careful inspection of the Saskatchewan Fife wheat as they have been exhibited to us, we are convinced that this is a vastly superior wheat to any now in the market. It is remarkable for its purity and also its excellent milling properties. We are glad to add our endorsement to that of the universal opinion among millers here as to its value." Per lb. 35c; 3 lbs. \$1; pk. 60c; bu. \$2; 2 bu. \$3.50.

**Winter Rye**—Per pk. 75c; bu. \$2.

**Spring Rye**—Per pk. 75c; bu. \$2.

**The Manshury Barley**—This barley is early ripening, which helps it to fill well; thus it generally fills plump. The Manshury Barley has a strong upright straw that makes it easy to harvest, yields well. The heads of this barley are very long, and contain from 75 to 100 kernels of grain, weighing over 50 pounds to the measured bushel; per lb. 35c; 3 lbs. \$1; pk. 75c; bu. \$2.25.

**Highland Chief Barley**—A new and distinct two-rowed variety. It is very robust; a vigorous grower and the size of the grain when compared with any other variety is immense. It is less liable to be damaged by wet than other kinds, inasmuch as it is more closely covered with awns or spikelets, yielding from 50 to 60 bushels per acre and usually weighing over 50 pounds to the measured bushel. The stock we offer this season, for the first time, has



been examined by eminent agriculturists in bulk and pronounced the finest quality of barley they had ever seen. Nearly all who have experimented with the two, four and six-rowed varieties know that the two-rowed, for this climate, is far preferable. It yields better and can stand longer after it is fit to cut; per lb. 40c; 3 lbs. \$1; pk. \$1; bu. \$3.

**European Silver Hull Buckwheat**—This extraordinary variety originated abroad, is a very great improvement upon the black or grey Buckwheat. Sown the same as the common Buckwheat, it continues to bloom longer, matures a few days sooner, and yields nearly or quite double under the same conditions. The grain is of a beautiful light silvery grey color, varying slightly in shade, and the corners are much less prominent than in the ordinary variety, while the husk is thinner, thereby saving from fifteen to twenty per cent waste in the process of manufacturing into flour, which is whiter and more nutritious; per lb. 40c; 3 lbs. \$1; pk. 75c; bu. \$2.50.

**Common Buckwheat**—(Selected) Pk. 50c; bu. \$1.40.

**Early Minnesota Amber Sugar Cane**—This popular variety has very nearly taken the place of all other sorts. It is the earliest and makes the finest quality of amber syrup and also makes good sugar; succeeds well both north and south; per lb. 40c; 3 lbs. \$1; 10 lbs. or more by express or freight 15c per lb.

**Seed Flax**—It will pay farmers to buy their flax seed and quit the process of raising it under contract for the mills. It is a quick crop to grow and always finds ready sale at a fair price; per pk. 65c; bu. \$2.

**Russian Flax**—An improved variety which has been proven to be quite superior to the common; per pk. 75c; bu. \$2.60.

**Beans—Navy**—Per pk. 75c; bu. \$2.75.

**Beans—White Medium**—Per pk. 75c; bu. \$2.75.

**Beans—California Branch, or Tree**—See description on page 14 of vegetable list; pk. \$1.25; bu. \$4.

**Field Peas**—Valuable for feeding:

—White—Per pk. 65c; bu. \$2.

—Blue—Per pk. 75c; bu. \$2.50.

**Mammoth Russian Sunflower**—The planting of sunflower has increased an hundred fold within a few years. It is much used, especially the Mammoth Russian, for fuel, while the seed is superior food for poultry, in fact the poultry yard should not be without it. It is also said to afford protection against malaria; postpaid per lb. 40c; 3 lbs. \$1; by express 10 lbs. or more at 15c. per lb.

**Common Sunflower**—Postpaid lb. 35c; 3 lbs. 90c.

### BIRD SEEDS.

Fresh re-cleaned seed. Old or musty seed is injurious to birds. If ordered sent by mail, add for postage, sixteen cents per pound for seed and twenty-five cents per box for Mocking Bird Food.

**Mixed Bird Seed**—Per lb. 10c; 3 lbs. 25c.

**Canary Seed**—Per lb. 10c; 3 lbs. 25c.

**Hemp Seed**—Per lb. 10c; 3 lbs. 25c.

**Rape Seed**—Per lb. 10c; 3 lbs. 25c.

**Maw Seed**—Per lb. 25c; 3 lbs. 75c.

**Millet Seed**—Per lb. 10c; 3 lbs. 25c.

**Millet, White French**—Per lb. 20c; 3 lbs. 50c.

**Mocking Bird Food**—Per box 50c.

**Cuttle Fish Bone**—Per oz. 10c; lb. 75c.

### SEEDS OF HONEY PLANTS.

Each year the demand increases for seed of Honey Plants, proving conclusively that it pays to grow them for that purpose.

The following list includes all the principal varieties. Prices by the pound include postage:

**Borage**—Per oz. 15c; lb. \$1.25.

**Buckwheat**—Per pk. 60c; bu. \$1.40.

**Clover, Honey or Bee**—In its flowering season it is literally covered with bees; should be sown by every bee keeper; sownight to ten lbs. per acre; lb. 65c.

—**Alyke**—Besides being one of the best for hay, it is very desirable for bees, producing an abundance of honey of the very best quality; per lb. 50c; 3 lbs. \$1.25; pk. \$2.50; bu. \$9.

—**Bokhara**—One of the best of honey plants; also a good forage plant and an excellent sollar; lb. 65c.

—**White**—Per lb. 50c; 3 lbs. \$1.25; pk. \$3.25; bu. \$12.

**Dandelion**—Per oz. 40c; ¼ lb. \$1.25.

**Mignonette, Sweet**—Per oz. 15c; lb. \$1.75.

**Mustard, White**—Per lb. 50c.

**English Rape**—Per oz. 10c; lb. 50c.

**Sunflower, Common**—Per lb. 40c; 3 lbs. 90c.

—**Mammoth Russian**—Per lb. 50c; 3 lbs. \$1.

**Seven Top Turnip**—Per oz. 10c; ¼ lb. 25c; lb. 75c.

### TREE SEEDS.

As tree seedlings make but small growth the first season, seldom over two feet, it is best to plant in rows or beds and transplant to permanent places at one or two years old. Nut bearing trees are an exception to this rule, for while they can be transplanted successfully, if care is taken, they do not recover the check given them for several years. In the latitude of northern Iowa and north of it, it is well to protect the first winter with straw or hay.

In planting groves it is best to plant several varieties, as they seem to grow more healthy and rapidly.

POSTAGE PREPAID AT PRICES NAMED.

**Alder, European**—A rapid grower, especially in rich, damp soils; per oz. 10c; ¼ lb. 35c; lb. \$1.25.

**Ash, American White**—A very valuable timber, adapted to a wide range of soil and climate. Easily grown from seed, transplants with safety and grows very rapidly; per oz. 10c; ¼ lb. 25c; lb. 85c; 10 lbs. or more, not prepaid, at 60c. per lb.

**Arbor Vita, American**—Hardy evergreen; per pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.

**Beech, European**—Hardy, well adapted for high, gravelly soils; per oz. 10c; ¼ lb. 30c; lb. \$1.

**Birch, Yellow**—A large tree of rapid growth, wood hard and durable, splendid fuel; per oz. 25c; ¼ lb. 85c; lb. \$2.50.

**Box Elder**—Makes a handsome shade tree, also good wind break, as it is a rapid grower. Stands dry weather extremely well; per oz. 10c; ¼ lb. 30c; lb. 75c; 10 lbs. or more, not prepaid, at 60c. per lb.

**Catalpa Speciosa, or Hardy Catalpa**—This is perhaps the most valuable tree on the list for our western prairies. Mr. Suel Foster, one of Iowa's veteran horticulturists said of it: "My experience for twenty-five years with the Hardy Catalpa assures me that it is by far the most valuable tree the farmer can plant for post timber, and for almost all the uses timber and wood are used for on the farm or for railroad ties, and for commercial purposes." Grows from seed almost as readily as corn. Cover one-half inch; per oz. 20c; ¼ lb. 60c; lb. \$1.50; 10 pounds or more not prepaid, at \$1.20 per lb.

**Elm, European**—A beautiful tree for lawns and streets; a rapid grower; per oz. 25c; ¼ lb. 75c; lb. \$2.

**Larch, European**—The Larch is very valuable for fence posts and poles; per oz. 20c; ¼ lb. 60c; lb. \$1.75.

**Lime or Linden**—Soft wood, of very rapid growth; per oz. 10c; ¼ lb. 85c; lb. \$1.25.

**Maple, Sugar**—A beautiful shade tree in open situations; per oz. 10c; ¼ lb. 30c; lb. \$1.10.

**Maple, Soft**—This is being extensively planted in forests, groves and timber belts on account of its rapid growth. Seed ready about June 1st, and should be planted within two or three weeks; per ¼ lb. 20c; lb. 60c; bu. \$2.50.

**Mulberry, Russian**—Indispensable in silk culture in the north. Easily grown from seed. Its rapid growth, beautiful form and foliage and more than all the excellence of its timber and fruit, produced in abundance after the third year, makes it an extremely valuable tree for the northwest; per pkt. 10c; oz. 40c; ¼ lb. \$1.50; lb. \$4.50.

**Pine or Sycamore**—One of our native trees, and attains on some of the rich river bottoms, an enormous size; per oz. 10c; ¼ lb. 30c; lb. \$1.

**Pine, Austrian**—Perfectly hardy and a rapid grower; per oz. 20c; ¼ lb. 50c; lb. \$1.50.

**Pine, Scotch**—Very desirable for timber belts; per oz. 25c; ¼ lb. 85c; lb. \$2.50.

**Pine, White**—Per oz. 35c; ¼ lb. \$1; lb. \$3.50.

**Spruce, Hemlock**—A very handsome evergreen or rapid grower; per oz. 50c; ¼ lb. \$1.50.

**Spruce, Norway**—A foreign variety. Valuable for timber belts or for lawns; per oz. 10c; ¼ lb. 35c; lb. \$1.25.

**Tree of Heaven**—Introduced from Japan. It has become quite popular in some localities on account of its rapid growth and tropical appearance. Hardy on our prairies; per oz. 15c; ¼ lb. 40c; lb. \$1.25.

### HEDGE SEED.

**Osage Orange**—Makes a handsome and durable hedge and is altogether the best plant grown for this purpose; per lb. 50c; 3 lbs. \$1.25; pk. \$1.75; bu. \$6.

**Osage Hedge Plants**—\$3 per 1,000; 5,000, \$12.50; 25,000, \$50. Special prices on large quantities.

**Honey Locust**—¼ lb. 20c; lb. 60c; 10 lbs. and over not prepaid at 35c per lb.



## SEED POTATOES.

"Let us raise two potatoes where we now raise one."  
 "What ye sow, that shall ye also reap."

We make a specialty of choice Seed Potatoes and are each year testing many of the new varieties that are offered, carefully comparing them with the older sorts, and those which have particular merit we lose no time in offering to our customers. It has been proven beyond dispute that it pays farmers well to plant these new varieties. It is no more labor to raise them than the older, run-out varieties and they often yield, fully double in quantity and far better in quality. An especial case of this is in our new Bonanza, and all farmers should try it.

Of the many new varieties of potatoes that are offered to the public, we have selected for this list only a few of the very best new varieties and a few of the old standard sorts, whose merits are well known, believing it better to offer our customers only these kinds, than to present to them a long, confusing list to make selections from.

Remarkable improvements have been made in the potato during the past few years and several new varieties of great merit have been brought out, and every gardener and farmer is standing in his own light who refuses or neglects to test them. Buy a small quantity this year of each of a few of the leading sorts, and not only will you find the quality better than the old kinds but the yield will be greatly increased.

It pays to use plenty of seed. The average yield for three years of whole Potatoes planted at the Ohio Experiment Station was 246 bushels per acre, that from single eye pieces 130 bushels per acre.

**The Concave and Curved Seed Potato Knife.** Is thin and right shape to cut 1, 2 or 3 eye pieces, fast, and not crack the tuber or injure the germs. Price 35 cts. each, postpaid.

All of the following varieties will be found worthy of a place in any garden. At the pound price, we send them by mail prepaid; at the peck or bushel rate, they are to be sent by express or freight at expense of purchaser.

All varieties of potatoes except where noted at 40 cts. per pound, three pounds for \$1.00 postpaid; or by express 10 lbs. or more assorted varieties at 15 cents per pound. Use Slug Shot for the bugs.

**New Wide Awake**—A NOVELTY FOR 1888. INTRODUCED BY THE IOWA SEED CO. As early if not earlier than the Early Maine which makes it especially desirable for Market Gardeners. They are smooth, of oblong shape, somewhat flattened. Resemble the Early Rose in color and the Snowflake in taste. They yield very large crops and run a fair size; dry weather does not seem to affect them as much as most other kinds and we can recommend them to all our customers without fear of anyone being disappointed. Wm. Habb, a large gardener for the Des Moines market, says: "I have raised the Wide Awake potatoes the last two years with perfect success when other varieties were a partial or entire failure. They are very early and an excellent cropper;" per lb. 60c; 3 lbs. \$1.50 postpaid; pk. \$1.50.

**Early Maine**—By many considered the best variety for earliness, yield and quality. One gentleman after planting them, says: "I would rather pay extra for the Early Maine, than to take Early Rose as a gift." They are not only smoother, more productive, of better quality than Early Rose, but also very much earlier; per lb. 50c; 3 lbs. \$1.25; pk. 85c; bu. \$2.25; bbl. \$4.

**Early Ohio**—Tubers medium size and very even; color nearly white, tinged with purple; oval form; flesh pure white, unusually fine quality. Matures at least ten days in advance of the Early Rose and keeps till July if wanted. We have an exceptionally choice stock of these this year in spite of the drought; pk. 75 cts; bu. \$1.75; bbl. \$4.

**Early Gem**—This is the earliest variety we have ever grown. It is medium size, oval, oblong in form, very smooth, the eyes being shallow and few in number, very light pink or flesh color, flesh white, fine grained and of excellent quality, cooks very mealy; per pk. 80c; bu. \$2; bbl. \$4.50.

**Pearl of Savoy**—This new variety is a cross of Clark's No. 1 and Extra Early Vermont. Quite as early as the Early Rose, very productive, the vines being very vigorous in growth. The tubers are oblong, fair size; the flesh is pearly white and very mealy; pk. 75c; bu. \$1.75; bbl. \$4.

**Beauty of Hebron, Early**—Ten days earlier than the Early Rose; yields well, tubers lying very close together in the hill. Its mealy qualities and rich delicate flavor are the highest recommends; per pk. 75c; bu. \$2; bbl. \$4.50.

**Clark's No. 1**—This variety reminds us of the Early Rose in its palest days, which it very closely resembles; is a much better cropper; ripens about the same time; cooks mealy, flavor excellent; pk. 75c; bu. \$1.75.

**Early Rose**—Standard early sort; pk. 75c; bu. \$1.75.

**Vick's White Rose**—A new variety possessing all the qualities of the Early Rose except color. One of the best for either home use or the market. Tubers grow compactly in hill and do not need "hilling up" to keep them in the ground deep enough to prevent submerging; per pk. 85c; bu. \$2; bbl. \$4.25.

**Snowflake**—Finest quality for the table. The only fault we can find with it is a tendency to run to small ones; per pk. 75c; bu. \$1.75; bbl. \$4.

**Late Beauty of Hebron**—Good for main crop; per pk. 65c; bu. \$1.50; bbl. \$3.75.

**Late Rose**—Similar to Early Rose except in time of maturing; per pk. 65c; bu. \$1.60; bbl. \$3.75.

**Magnum Bonum**—Medium Early, and in some crops have been known to average one pound each in weight. Very solid and fine grained, resembling the Peachblow in character and quality. Good keeper. Our stock is extra choice; per pk. 75c; bu. \$1.75; bbl. \$4.

**Parson's Prolific**—An Iowa seedling. The vines are vigorous and rank; with strong roots extending deep into the soil; dark green foliage; tubers medium large (the best market size, not overly large) and very uniform; skin pure white, and smooth, oval form, slightly flattened on the sides; eyes very near the surface. They grow compact in the hill; have very few small ones. The yield is among the best. Flesh pure white, fine-grained and splendid flavor; a first-class cooking potato. We have never found a hollow one; per pk. 75c; bu. \$1.75; bbl. \$4.

**Burbank Seedling**—Produces a large crop of handsome tubers, almost uniform in size, and which always commands a high price in the market; per pk. 75c; bu. \$1.50; bbl. \$3.75.

**Dakota Red**—A new medium late variety, quality equal to the old Peachblow; tubers large, oblong and of good quality. Not affected by drought and very productive; per pk. 75c; bu. \$1.75; bbl. \$4.

**Aimo**—Grows even in size, white, slightly russeted, smooth, nearly round, fine quality, medium late, the best cropper, and decidedly the best keeper of any we have tried; per pk. 75c; bu. \$1.60; bbl. \$3.75.

**Bonanza**—See illustration on cover of catalogue. This magnificent new variety which we introduced last year has even surpassed what we claimed for it. Although we knew it possessed so many good qualities we were agreeably surprised to have so many of our customers unite in calling it the best variety in cultivation. It will pay all to give it a trial this year; is a medium late, and is sure to become one of the leading market varieties for a main crop. This year, in spite of the great drought, they yielded an immense crop of good-sized, perfect potatoes. Growing side by side with other varieties with the same treatment, during the past season, they yielded nearly three times as much. Tubers are large, oblong, somewhat flattened, skin smooth, flesh firm, white and fine-grained. Its perfect shape, great productiveness, superior quality, freedom from rot and blight, and its not being affected by drought, makes it in every respect a first-class potato. Its strong, robust growth renders it less liable to be affected by bugs, and its upright, stocky habit makes it possible to plant closer than most kinds. Quality the very best, equal, and by some considered far superior to the Peachblow and Snowflake. Cooks dry and mealy, either boiled or baked, without falling to pieces; lb. 40c; 3 lbs. \$1.40; pk. \$1; bu. \$2.00; bbl. \$5.

**Mammoth Pearl**—A medium early potato which originated in Ohio and was selected as the best of over 2,500 seedlings. Shape somewhat oblong and usually slightly flattened. Very strong grower; per pk. 85c; bu. \$2; bbl. \$4.25.

## SWEET POTATOES.

We desire to call especial attention to our facilities for supplying our customers with sweet potatoes for bedding. From long experience we have learned that extreme care in keeping, handling and packing is absolutely necessary to insure their safe arrival at destination. Our facilities for strictly observing these requirements are not surpassed, and, we think, not equaled in this part of the country. Orders should be sent in early and we will ship potatoes soon as weather permits. The Yellow Nansmond and Early Yellow Jerseys are most popular but we can also furnish the Red Nansmond and White Southern Queen, sometimes termed Yams; per pk. 75c; bu. \$2; bbl. \$4.



TOOLS AND IMPLEMENTS.

We handle a good assortment of the best gardening implements and tools, and as we are not bound to any firm or manufacturer to push their goods exclusively, our customers can depend on our opinion as here given, being unbiased and founded on our own experience, and that of the best gardeners near this city.

A good wheel hoe is as much superior to the common hoe for cultivating a garden, as is the mowing-machine to the sickle in the hay-field. All of the following tools have been thoroughly tested, and for their own particular class of work have given splendid satisfaction. The soil on which they are intended to be used, as well as the use to which you intend to put them, must be well considered.

All in all the Planet Jr. Implements are the most popular with the Iowa gardeners. If you want a tool both for drilling your seed, and tending the crop, either the Planet Jr. or Comstock Combined Drill and Wheel Hoe will answer the purpose. The Planet Jr. consists of the largest number of combinations, and can be used for a greater variety of work. The Comstock has the advantage of extreme lightness (if that is an object with you) and with the addition of the Scuffle Hoe attachment does almost all varieties of work.

The Planet Jr. No. 2 Drill, and the Planet Jr. Double Wheel Hoe, are undoubtedly the two best machines for market gardeners on the list, and when customers can afford to buy two machines, we would most strongly recommend these. As a cultivator for rather heavy ground, there is no tool which will equal the Ruhlman Wheel Hoe. It does as thorough and complete work as any tool on the list, and exterminates all weeds between the rows. No gardener or farmer should be without a Planet Jr. Combined Horse Hoe, Cultivator and Plow. It is conceded by all who have tried it to be the BEST HORSE CULTIVATOR IN EXISTENCE.

All of the tools named in this list are good in their respective classes, and we refer you to the description of them given herewith, and to the descriptive circulars of any of them, which will be mailed on application. All tools are packed ready for shipment and will be delivered at express or freight offices at prices named.

Five per cent discount on any two tools shipped together.

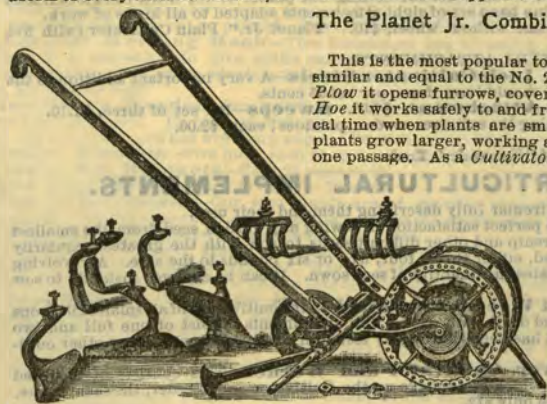
Ten per cent discount on any three or more shipped together.

"PLANET JR." AND "FIREFLY" FARM AND GARDEN IMPLEMENTS.

The "Planet Jr." goods combine lightness with strength, adjustability with firmness, simplicity with perfection of work, and thorough practical value with beauty of design.

Owing to lack of space in this catalogue we give only a condensed description of these implements. A complete descriptive catalogue of these goods, illustrated with over forty engravings, showing the tools at work, and containing practical instruction in the cultivation of garden and field crops, invaluable to beginners and useful to every tiller of the soil, will be mailed free on application to us.

The Planet Jr. Combined Drill, Wheel Hoe, Cultivator and Plow.



This is the most popular tool we have ever sold. As a drill it is exactly similar and equal to the No. 2, except in size. It holds one quart. As a Plow it opens furrows, covers them, hills, plows to and from, etc. As a Hoe it works safely to and from both sides of the row at once at the critical time when plants are small and weeds abundant, or between rows as plants grow larger, working all rows from eight to sixteen inches wide at one passage. As a Cultivator it is admirably adapted to deep mellowing of the soil. It sows all garden seed accurately at the desired thickness or depth, opening, dropping, covering, rolling down and marking the next row all at one passage, in the most reliable and perfect manner. Each machine is sent out with the tools shown in the cut. Be sure you get the latest style machine, having the rakes for cultivating; price, \$12 each, boxed.

THE PLANET JR. NO. 2 DRILL.

A seed drill to insure satisfactory results must possess a number of important qualities. The seed must be discharged regularly and without injury, the adjust-

ability of the dropping device must be simple and positive, the index reliable, the seed deposited in a straight line and covered the desired depth with exactness, and the ground thoroughly firmed over the seed. It should have a good marker and a cleaner for foul ground. All these we have in the "Planet Jr." to perfection. It holds two and one half quarts and will sow with equal accuracy a single paper of seed or a full hopper; with the greatest exactness it will cover, roll down, and mark the next row at a single passage; price, \$9 boxed.

The "Planet Jr." Double Wheel Hoe, Cultivator and Plow.



Will do the work of from six to ten men with the common hand hoe among market garden and root crops, nursery stock, etc., and is especially adapted to onion culture. It is light, firm, strong, quickly set and easily managed. Each one is sent out with all the tools shown in the cut; all the blades are tempered and polished steel. Nothing can exceed the perfection and variety of work it performs. The hoes cut from six to sixteen inches wide, and can be used to throw to or from the row, working both sides of the row at once. The four cultivator teeth work beautifully among larger plants, mellowing the soil thoroughly. The plows are useful in weedy crops, in opening furrows and covering,

and in hilling large plants. The wheels are adjustable in height, and can be set seven to ten inches apart, or for working between crops as a Single Wheel Hoe at four inches apart. This tool has been improved for 1883 by the addition of a pair of cultivating rakes and a pair of leaf lifters; price, \$8 boxed.



**PLANET JR. PLAIN DOUBLE WHEEL HOE.**

Precisely like the above, except that it has only one pair of hoes for cultivation, thus making it much cheaper. This will make a very effective and cheap tool for parties who have limited work. Price, \$4.50.

**The "Planet Jr." Single Wheel Hoe, Cultivator and Plow Combined**—Combines extreme lightness, strength, variety of tools, and great adjustability. It has one pair of long and one pair of short exchangeable hoes, a set of three reversible cultivator teeth, and a steel garden plow. The frame allows every desirable adjustment, is quickly raised or lowered to regular depth, and the wheel can be attached centrally or to either side of the machine, giving the operator the important advantage of hoeing both sides of the row at one passage, when desired. Price, \$6 boxed.

**The "Fire Fly" Single Wheel Hoe, Cultivator and Plow Combined**—Combines lightness and strength with the greatest adjustability, while its highly polished and tempered steel tools make gardening comparatively a pleasure. The tools are all made after the most perfect models, and are first, a pair of admirable hoes which can be set to work to and from the row and to any desired depth. Next, a set of three reversible cultivator teeth to be used together, or singly, or in conjunction with the hoes. Third, a large excellent garden plow. Price, \$5, or with an iron handle, \$4.50.

**The "Fire Fly" Wheel Garden Plow**—Makes the care of a vegetable garden a pleasure, and 10,000 families who could not find time to keep a garden, if attempting its cultivation with an ordinary hand hoe, can raise their own vegetables successfully with the "Fire Fly." It takes the place of the horse and plow, or cultivator, requiring no wide headlands to turn on, and is invaluable during all the garden season. The price is reduced to \$2.50.

**The "Planet Jr." Hollow Steel Standard Horse Hoe and Cultivator Combined**—No tool which has ever been offered to the American public has so rapidly gained its favor as the "Planet Jr." HOLLOW STEEL STANDARD Horse Hoe and Cultivator combined. This is due to the fact that for the cultivation of all farm crops, none equals it in ease of handling, variety and quality of work done and lightness of draft.

It is made entirely of iron and steel except the handles, and has an expanding frame, which can be closed to five inches or opened to twenty-four, and is provided with such a variety of adjustable teeth as enables it to do all kinds of one horse cultivation.

For all crops that are hoed by hand it is valuable, preceding the hand hoe, and saving three-fourths of the work. For all crops that are hilled, and very few are not, nothing can exceed the perfection and ease with which this tool performs the work, breaking up the soil perfectly, and hilling the crop much or little as desired. "For level culture," so desirable for some soils, it is equally well adapted.

As an opening plow it is invaluable for making furrows for potatoes, corn and all other crops. As a coverer it has no equal for corn, broom corn, potatoes, and in fact every kind of covering, as it covers and rolls down the ground at one operation, in ordinary field work, or fits for setting out plants or for using the garden seed drill and wheel hoe. Every complete machine has a set of eight attachments adapted to all kinds of work.

Price complete as above with wheel, \$11; same without wheel, \$10. "Planet Jr." Plain Cultivator (with five cultivator teeth) \$6.

**EXTRA ATTACHMENTS.**

**Set of Five, One and One-Fourth Inch Cultivator Steels**—A very important addition to the Horse Hoe, and as they are inexpensive all should have them; per set 55 cents.

**Furrowing Steel**—\$2.00. **Marking Attachment**—\$2.00. **Sweeps**—Per set of three, \$1.10.

**Roller**—For covering and thoroughly firming the soil over seed or potatoes; each, \$2.00.

**Reversed Rake**—For covering, \$1.50.

Don't fail to send for Illustrated Catalogue of "Planet Jr." Tools.

**COMSTOCK'S HORTICULTURAL IMPLEMENTS.**

Send for Illustrated Circular fully describing them and their uses.

**Comstock's Seed Sower**—Will give perfect satisfaction in sowing any garden seed from the smallest size up to Peas and Beans. It sows Beet, Parsnip and other difficult seeds to sow with the greatest regularity and is especially adapted to sowing Onion seed, either three, four, five or six pounds to the acre. A revolving disk which is held in place by a spring, regulates the quantity of seed sown. It can be changed instantly to sow either thick or thin. Price only \$8.

**Comstock's Hand Cultivator and Weeder Combined**—In the cultivation of all small drill crops this will do the work of six men with hoes, and do it with ease. The attachments consist of one full and two half share cultivator teeth and two rakes. It has been thoroughly tested in competition with many other cultivators and came out victor. Price, \$7.

**Comstock's Combined Seed Sower, Cultivator and Weeder**—This consists of the seed sower mentioned above, and the attachments which go to make up the Cultivator and Weeder, the same frame, wheel and handles being used for both. Price only \$12.

**EXTRA ATTACHMENTS.**

Hopper and Coverer to make a Seed Sower of a Cultivator ..... \$5.00

Set of two rakes and three teeth to make a Cultivator and Weeder of a Seed Sower ..... 4.00

Extra Steel Plates, for replacing teeth when worn, each ..... .17

**SCUFFLE HOE**—This is by far the most important of any of the extra attachments. It thoroughly clears the ground of weeds, and loosens up the soil. .... 1.25

**RULLMAN'S WHEEL HOE**—No tool that we have ever sold has given better satisfaction than this. Extremely simple in construction, it is compact, firm, strong and durable, doing to perfection the work for which it is designed. The handles can be raised to suit, knife-blades set to any pitch, and from seven to sixteen inches in width; can be run within half an inch of the row without injure to the plants. One man with this implement will do more and better work than eight men with common hoes. It is particularly valuable on hard ground, where it takes hold of the weeds better than most other wheel hoes. Price is \$5.50, but as we have a large number for our trade this season we will make the special price of \$3.90 delivered on cars here.

**The "Gem" of the Garden Cultivator**—A well made and thoroughly useful tool, combining a great variety of work for little money. Its working parts are two scuffle hoes, one four and a half and one nine inches wide; two plows, right and left hand, five cultivator teeth, all of the best steel. The wheel and handles of the Gem are adjustable in height, while the frame is so slotted that the hoes, teeth, and plows can be set in almost any position or angle. Price complete, \$5. The double wheel attachment is \$2 extra.

**Little Gem Seed Drill**—This new drill was designed and has been perfected, for farmers and small gardeners, who have long felt the need of a low-priced, reliable seed drill. The "Little Gem" will make the drill, drop and cover the seeds and mark the next row perfectly. We have not tested it ourselves, but understand that it is well made by experienced men, and think it will prove a "decided hit" for those who



plant vegetables for home use, and whose root-growing is not extensive enough to warrant them in buying a large seed drill. Price \$6, or taken together with the Single Wheel "Gem" Cultivator, \$10 for the two machines.



## IMPROVED STROWBRIDGE BROADCAST SOWER.

If you desire it we will send you a pamphlet containing testimonials from farmers, dealers and agricultural colleges in all parts of the country, which will thoroughly convince you that the Strowbridge is the only perfect broadcast sower made, and just the machine you want.

It sows all Grains, Grass Seeds, Plaster, Sait, Ashes, Commercial Fertilizers—everything requiring broadcasting—any quantity per acre, better and faster than any other method. Saves seed by sowing perfectly even, is not affected by wind, as the seed is not thrown upwards. Sows half or full cast, on either or both sides of wagon. Readily attached to any wagon or cart without injury, and used wherever they can be driven. Lasts a lifetime. Sows eighty acres of wheat per day, crop one-fourth larger than when drilled.

If you sow any seed broadcast it will pay you to have one. Write us for a pamphlet describing it, and perhaps, if you live at a distance from Des Moines, we can help you some on freights, as we want to introduce them into every section of the country. If you want to occupy leisure time with some profitable employment, canvass the sale of these seeders among the farmers of your locality, and we will give you special prices in lots of two or more to be shipped together. This is the latest improved sower for 1888. Price reduced to \$20.

**Monitor Hand Broadcast Seed Sower**—Is among the Hand Broadcast Seeders what the Improved Strowbridge is among Power Seeders. With it you can sow all kinds of grain and seeds to your perfect satisfaction. It is a good, substantial and nice little machine, cheap and durable, light itself, and runs lightly and can be used equally well by a man or boy. Price, \$4.50.

**Centennial Fanning Mills**—Pronounced by all the best in the market. We use several of these mills for cleaning seeds, and they do perfect work. Every farmer who raises grain or grass seeds should have a No. 1 Farm Mill. Price, \$30.

**Right Speedy Hand Corn Sheller**—Price, \$3.

**New Improved Western Washer**—Is the simplest and most perfect washing machine made. Is a household necessity. It will save clothes, time, labor, soap and fuel, and that means it will save you money. We guarantee them to give satisfaction. Price, No. 1, \$8; No. 2, \$9.

**Superior Wringer**—Has patent adhesive rolls, best steel springs and malleable iron crank, that will not break. They are "Superior" in quality, workmanship and finish, and in manner of doing work. Price, only \$3.

**Loomis' Patent Pitman or Spring Cushion**—Is attached to windmill pump rods and cushions the stroke thus saving much wear and tear. Price, \$5.

## SUNDRIES.

**Lang's Hand Weeder**—Is, in our opinion, the best weeder made. Its special advantage over all other weeders of this class is, that it has a band which passes over the fingers, which, when the tool is not in use, gives full use to the hand for pulling weeds and thinning out plants without laying down the tool. It is neatly and strongly made. See cut on page 22. Price, 25 cents; \$2 60 per dozen; or postpaid, for 30 cents each.

**Excelsior Weeding Hook**—This instrument can be used to great advantage among small and tender plants. It is warranted to give entire satisfaction when used among rows of seedlings, among ornamental plants, or in any place where absolute freedom from weeds is desired. Price, 25 cents; \$2.25 per dozen; or postpaid, for 30 cents each.

**Haseltine's Weeder**—One hour's use will repay its cost, and in any vegetable or flower garden it is simply indispensable. Its price, 35 cents prepaid, is not one-tenth its value for one season's use. Blade is solid steel, oil tempered, and has five sharp edges. Price, 30 cents; \$3.25 per dozen; or postpaid, for 35 cents each.

**Garden Trowels**—Five inch, each 20 cents; six inch, each 25 cents.

**Flower Pot Brackets**—Each 25 cents to \$2.

**Bird Cage Hooks**—Each 10 cents to 75 cents.

**Wire Plant Stands**—Our wire stands are of superior strength and extra finish; very attractive and ornamental. They are mounted on substantial castors for convenience in moving about the house.

**Swiss Moss Baskets**—Each 5 cents to 30 cents.

**Ornamental Straw Baskets**—Each 35 cents to \$2.50.

**Dried Grasses, Everlasting Flowers, Winter Bouquets, Pampas Plumes, etc.** Prices on application.

**French Green Moss**—Large size packages by mail, each 25 cents.

**Fancy Wooden Trellises**—Light and strong, all sizes for pots and out-door climbers; each 10c to \$2.

**Hammond's Slug Shot**—Hammond's Slug Shot is a combination of the most potent insecticides and soluble plant food, not harmful to either beast or fowl, but probably the most effective and economical article in use for the destruction of the various insects that prey upon cultivated vegetation. When you order your seeds, if you have not tried Hammond's Slug Shot, order a five or ten pound package, and use it as per directions given with each package.

Put up in packages not prepaid, 5 lbs. 35 cents; 10 lbs. 65 cents; 50 lbs. \$3; 100 lbs. \$5.50; by mail prepaid, 1 lb. 35 cents; 3 lbs. \$1.

**Tin Foil**—Pound by mail 40 cents.

**Wire Designs**—For cut flowers. Of these we have a good assortment. Price of any kind of design given on application.

**Lawn Mowers**—We can furnish any of the best and leading styles. Write for circulars.

**Flower Pots**—We carry a full line of Plain and Fancy Flower Pots, Hanging Baskets, and Terra Cotta, Iron and Rustic Lawn Vases, and request correspondence from all desiring anything in this line.

**Scotley's Plant Sprinkler**—The best; indispensable for floral work. Price by mail postpaid \$1.35.

**Berry Boxes**—We handle the A. W. Wells & Co. fruit boxes, which are the best made. They are put up flat to ship, but are all ready to put together, which can be done very rapidly. Price per 100, 75 cents; 1,000, \$4.

Annealed tacks for putting together boxes, per oz. 10 cents; per lb. 90 cents.

**Bowker's Food for Flowers**—A fertilizer made especially for plants grown in the house or conservatory; clean, free from offensive odor, largely soluble in water, and producing healthy plants, free from vermin, and early and abundant blossoms to which it imparts a rich and brilliant color. Large sized package for 35 cents; postpaid for 50 cents.

**Florist's Plant Food**—A composition somewhat similar to the above, which is sold in bulk at 10 cents per pound, or by mail 30 cents per pound.

**Lawn Fertilizer**—Per lb. 10 cents; 25 lbs. or over at rate of \$6 per 100 lbs.

**Pure Bone Dust**—This is the best pulverized raw bone dust in the market and makes a splendid fertilizer for lawns and gardens. Price per lb. 10 cents; 10 lbs. 75 cents; 100 lbs. \$6.

**Pure Bone Meal**—Per 100 lbs. \$4.

**BEE KEEPERS' SUPPLIES**—One hive complete for comb honey, \$3.50; two hives for extracting honey, \$3.50. All painted, complete and ready for use. Same in the flat, two to five hives, each \$2.75; six to ten, each \$2.50; eleven to twenty, each \$2.30; twenty-one to fifty, each \$2.10; fifty-one to one hundred, each \$1.90.

**HIVE BODIES**—Made up with **Tops and Bottoms and Frames**—Two to five, each \$1.40; six to ten, each \$1.30; eleven to twenty, each \$1.20; twenty-one to fifty, each \$1.10; fifty-one to one hundred, each \$1. Same in the flat, with tops and bottoms and frames, two to five, each \$1; six to ten, each 95c; eleven to twenty, each 90c; twenty-one to fifty, each 85c; fifty-one to one hundred, each 80c.

**SURPLUS CASES**—Made up **Ready to Use**—Less than twenty-five 50c; twenty-five and over 45c. Five cents per crate less without the veneering or false bottoms and tops. Same in the flat, less than twenty-five surplus cases, each 35c; twenty-five and over, each 33c. Five cents per crate less without veneering or false bottoms and tops.

**ENTRANCE FEEDERS**—One feeder 15c. When wanted by mail add fifteen cents for postage. These are substantially made and hold about one pound of syrup.



CHOICE VEGETABLES

INTRODUCED AND SOLD BY

THE IOWA SEED COMPANY.



IMPROVED  
GROUND  
CHERRY



VINE  
PEACH



EARLY DESMOINES  
SWEET CORN



PAGE'S NEW STRIPED RICE  
POP CORN



IMPROVED TABLE  
QUERNSEY  
PARSNIP



MARKET GARDENERS'  
BEET



Kreamer's  
Celery



Perfect  
WHITE SPINE  
CUCUMBER.

Most Productive. Superior Quality.



BONANZA



WIDE AWAKE.

One packet of seed of each  
of the above eight **SPLENDID NOVELTIES**  
for only 60 Cents.

WITH ORDINARY CULTURE THE BONANZA HAS PRODUCED  
ALMOST THREE TIMES AS MUCH AS COMMON KINDS.

THE FIRST IN MARKET  
ALWAYS COMMANDS THE BEST PRICE.