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SEPTEMBER, 1888.

A. I. ROOT’S CATALOGUE OF
SEEDS FOR THE GREENHOUSE, GARDEN, AND FARM,
AND ESPECIALLY FOR BEE-KEEPERS.
FIFTH EDITION.

PRICE 5 CTS. PER PAPER; 10 PAPERS, 40 CTS.; 100 PAPERS, $3.50.

Seeds of new or rare vegetables and novelties, we include at the uniform price of 5 cents per packet; but, of course, we are obliged to put a smaller number of seeds into such packages. This will be noticed with the White-Plume Celery and Snowball Cauliflower, etc. Now, these 5-cent papers are all sent by mail postpaid; but when you order seeds by the pound, you must pay 5 cts. extra for postage and packing on each and every pound of seeds ordered. FIVE-CENT PACKETS, POSTPAID BY MAIL, never contain a FULL OUNCE of any thing.

ASPARAGUS.

Conover’s Colossal. Oz. 5c; lb. 35c.

There are said to be improvements upon this variety, but they have not been fully tested. No one will lose any thing by planting this old standard.

BEANS.

Dwarf German Wax, or Butter Beans. Pt. 10c; pk. $1.50. The earliest snap-short variety.

Golden Wax. Pt. 10c; pk. $1.50.

A staple snap-short bean.

White Kidney, Large. Pt. 10c; pk. $1.00. Bu., $3.25.

One of the best to use shelled, when green or ripe. We sell bunches of these at 15c a pint, shelled green. We market them in new pint strawberry boxes.

POLE BEANS.

Extra-Early Lima Beans. These are fully equal to the old Lima beans, and are fully as productive, and from ten days to two weeks earlier. We consider it an acquisition. Price 15c per pint, or $2.00 a peck.

Large Lima. Pt. 15c; pk. $2.00.

We get 25c per pint for these, when green, shelled. See White Kidney bean above.

The above beans will be furnished in 5-cent packages; but where they are to be by mail, postpaid, of course the above packages will have to be quite small. If wanted by mail, add 10c per pint for postage.

BEETS.

Eclipse. Oz. 5c; lb. 60c.

This gave us the best satisfaction last season of any thing we ever raised in the way of beets. They are a very quick grower, of excellent quality, and the appearance of the bright smooth scarlet bulbs is fully equal to any thing that has been pictured in the colored plates of our catalogues. In order to get a fancy price for them, start them in the greenhouse, and transplant when of the size of peas, or a little larger. They bear transplanting well, and are exceedingly hardy.

Philadelphia Turnip. Oz. 5c; lb. 50c.

This is a little later and larger than the above, and is a novelty because of its alternate rings of dark and light pink.

Lane’s Improved Sugar. Oz. 5c; lb. 35c.

The best variety for stock-feeding. It showed a larger per cent of sugar at the Experiment Station than any other analyzed. It is so sweet, that, when small, they are nice to eat raw.

Long Red Mangel. Oz. 5c; lb. 30c.

Yields well, but not so sweet as Lane’s improved.

CABBAGE.

Select, Very Early Jersey Wakefield. Oz. 25c; lb. $2.50.

Our cabbage seed this year is raised by Frances Brill. At the Experimental College Farm, at Columbus, O., they give this cabbage seed the preference over that raised by any other seedsmen, and they have tested nearly all of them. They all say that the Early Jersey Wakefield, of their best selected strain, is fully as early as any other cabbage known, and greatly superior in quality. We have sold single heads at retail at 30c each, raised from plants started in the greenhouse in February.

Henderson’s Early Summer. Oz. 15c; lb. $2.00.

This comes next to the Jersey Wakefield, and although it is an early cabbage, under very favorable conditions it produces large heads of most excellent quality.

Winningstad. Oz. 10c; lb. $1.50.

Such like the Jersey Wakefield, but later and larger. The heads are round, and some of them are so hard as to seem almost like bullets. Our customers of last season greatly preferred these and Henderson’s Early Summer cabbage to the later flat cabbages.

Louisville Drumhead. Oz. 10c; lb. $1.50.

One of the most uniform and sweet-heading sorts tried at the Ohio Experiment Station. It is a little earlier than Flat Dutch, hence may be planted later; just the kind to plant after early crops.
“Newark” Flat Dutch. Oz. 10c; lb. $1.50.
This is an improvement on the old standard Flat Dutch, and earlier. Pronounced by Brull “extra fine.”
Peppino Head Savoy. Oz. 10c; lb. $1.50.
The Savoy cabbage is handsome in appearance, and richer and larger than other varieties. Its taste it nearly approaches the cauliflower.
Large Red Drumhead. Oz. 10c; lb. $1.50.
For pickling. The bright red, by way of contrast, will make a load or lot of cabbages attract attention, and there is always more or less demand for red cabbage for pickles.

CARROTS.
Orange Danvers, Half-Long. Oz. 5c; lb. 60c.
Yields well, and is easy to dig. The best sort known.
Early French Forcing. Oz. 10c; lb. $1.00.
These are small, but very early, and often bring a good price, because they are the first that make their appearance in the market. But, provided with early radishes, they are very taking in appearance.

CAULIFLOWER.
Henderson’s Early Snowball. 1/4 oz. $1.00; oz. $3.00.
Nice specimens of early cauliflower often bring extravagant prices, and it pays well to start them in the greenhouse, and use the leaves and heads to forward them before the hot weather comes on.

CELERI.
Henderson’s White Plume. 1/4 oz. 10c; oz. 35c; lb. $4.50.
We place this at the head of the list, and especially for early celery. During the past season we had fine stalks on the market July 15th, and sold readily. We are planning to have celery this year in the market in the month of July. These are the earliest of the variety and started in the middle of January, on account of its self-bliiching qualities it is better fitted for early celery than any other.

Celery Dwarf. Oz. 15c; lb. 50c.
One of the standard sorts for a later crop. The golden tint, with which young plants makes it a handsome looking vegetable.
Boston Market. Oz. 10c; lb. $1.50.
An old standard variety in and around Boston, and raised largely throughout the land.

Major Clark’s Pink. Oz. 25c; lb. $3.50.
While the White Plume is the earliest and most in appearance regard above as the rich and most toothsome of all the celeries, it also, under favorable circumstances, yield a very large, and remarkably early growth. Plants set in September, the past season, made stalks weighing 2 lbs. each, by the middle of November.

CORN (FOR TABLE USE).
Ford’s Early Sweet.
We put this at the head of the list on account of its excellent quality and exceeding earliness.

Cory’s Extra Early.
Cory’s corn this season has not only proved to be the earliest by ten days or two weeks, but the ears are surprisingly large and fine; and the quality, if cooked at once, as soon as picked, is almost equal to any sweet corn we have. It is quite as excellent.

Crosby’s Extra Early.
This is a great variety, with soil suitable, although it comes from a cold region.

Late Mammoth Sugar.
This is excellent in quality, and gives ears of mammoth status and yield. Yet our trade has been very large in this kind of corn for eight or ten years past.
CORN we sell at 5 cents for a half-pint package; but of course prices are somewhat more in larger lots.

Green Early Savoy. Oz. 5c; lb. 60c.
This is the kind generally used for raising pickles for market.

KOHLRABI.
White Vienna. Oz. 10c; lb. $1.50.
This is the kind used for raising in his greenhouse, and the cucumbers bring 50 to 75 cents each, even where he raises them by the thousands. Fine smooth heads are wonderful to handle and taking, and they sometimes grow to a great size without getting yellow.

Green Early Savoy. Oz. 5c; lb. 60c.
This is the kind generally used for raising pickles for market.

LETTUCE.
Grand Rapids. For description see Novelties. Boston Market. Oz. 10c; lb. $1.00.
The best variety for greenhouse culture, as the heads are small, but compact and handsome.

Landreth’s Forcing. Oz. 15c; lb. $2.50.
Excellent for hot-haths and cold-frames, exceedingly early. The heads are small, and may be sent to the table in their entire form.

Henderson’s New York. Oz. 25c; lb. $3.00.
We consider this the best head lettuce for outdoor culture known. Even the chickens have discovered that it is of superior quality. They will run over the heads, and plot out every head of New York lettuce, without paying any attention to any other kind.

Hanson’s. Oz. 15c; lb. $1.00.
An old standard variety, producing heads that sometimes weigh as much as 2 lbs.

MELONS, MUSK.
Extra Early Citron. Oz. 10c; lb. $1.00.
Always profitable because of its extreme earliness.

Casa Blanca, or Persian Muskme!on. Oz. 5 cts.; lb. 60c.
A standard large variety.

Montreal. Oz. 60c; lb. 60c.

Banana. Oz. 5c; lb. 75c.
I consider this one of the best Muskme!ons it has been my fortune to taste, judging from specimens we had last season. They are long like a squash, or like a banana, (If you choose; but the color is strikingly like a banana, and, what is more wonderful still, it has an odor also like the banana.

MELONS, WATER.
Phinneys Early. Oz. 5c; lb. 60c.
The quality is very good, but the size is not very large.

Landreth’s Boss. Oz. 5c; lb. 60c.
These makes it a handsome looking vegetable.

ONION.
Silver King. For—description see Novelties. Pkt. 5c; oz. 25c; lb. $2.50.
Extra Early Red. Oz. 15c; lb. $2.00.

Medium size, looking very small cavity, and one of the very best.

Silverkins, or White. Oz. 5c; lb. $3.50.
A standard variety for pickles, or for handsome bunch onions. Better flavored than the dark-skinned.

Yellow Globe Danvers. Oz. 25c; lb. $1.75.
A standard yellow variety. The best of all to grow from seed. It makes a wonderful difference, however, how the seed is grown. Some strains will give nearly double the crop that others will.

ONION SETS.
We have those of Yellow Danvers and Silverkins.
Prices, 10c per pint; $1.50 per peck, or $5.00 per bushel. Large-size sets (often used for pickles), one-half the above price. By mail, 15c, added.

Winter-Onion Sets. 1/4 pound, 5c; pound, 15c.
This onion does not produce a bulb at all, or at least only a very inferior one. They are grown for prolonging the harvest, with a sort of root, or small bulb, on the lower end. It has such a habit of growing that the tops grow and any time when in the ground or out of the ground; and, in fact, the only part of the plant that can be removed from the ground in September the sets may be gathered and sown; but you cannot keep them over winter. The sets grow in the form of little onions on the top of the stalk, like the old-fashioned onion sets. One set is plenty when we were children. We gather these sets as soon as they are ripe, say about the middle of August, then we sprinkle them in a drill, about as we would peas, say from three to five inches apart.

PARSNIP.
Bloomdale. Oz. 5c; lb. 40c; 10 lbs., $3.00.
This is the only kind we have, but we consider it equal to any.

Parsley.
Fine Curled or Double. Oz. 5c; lb. 60c.

PEAS.
Landreth’s Extra Early. 1/2 pt. 5c; pk. $1.00.
We consider this equal to any for the first peas of the season. The same as the First of All, First and Best, and other extra-early sorts, yields its crop in a very short time. Not equal in quality to the American Wonder.

American Wonder. 1/2 pt. 5c; pk. $2.00.
This is between the Champion and the Little Gem. The Vio grows from 6 to 8 inches high. It is the first to ripen among the green podded wrinkled sorts. As to account of its dwarf habit it can be grown very easily under glass.

Strata Podding. 1/2 pt. 5c; pk. $2.50.
This has made its way rapidly in public favor. It is not only of rare excellence in quality, but the pods and peas are so large and so thick that they catch attention wherever they are put up to market, and attract all the notice anything else in the market. It has given us excellent satisfaction.

PRICE 5 CENTS PER PAPER; 10 PAPERS, 40 CENTS; 100 PAPERS, $3.50.
Alaska Peas. This is the favorite early pea of the Rural New-Yorker, and will yet give a crop of peas in our locality, if planted now. Price, 15c; peck, $1.50.

Champion of England. Pint, 15c; pk. $1.50;

Marrowfat. 1/2 pt. 5c; pk. 75c; bu. $2.50.

Peas by mail will be at same rate of beans for postage.

POTATOES.

Early Ohio. Pk. 25c; bushel, 75c.

Snowflake. This is an old variety, but is such a universal favorite we think it well worth sending to our list. On our people more prefer the Snowflake than any other variety.

Early Pearl. The Experiment Station finds this as early as the Early Ohio, and perhaps yields a little better.

Lee's Favorite. Fifty days later than the foregoing, yet yields a little better still.

Empire State. The Experiment Station considers as good a late or medium late potato as any before the public. They decide that the above four varieties are the cream of the list.

Cayenne Pepper. Oz. 25c; lb. $3.00.

Much called for, for seasoning soups, pickles, etc.

Golden Summer Crookneck. Oz. 5c; lb. 50c.

PERFECT GEM. Oz. 5c; lb. 50c.

A round square, about 6 inches in diameter. The quality is excellent, and it will keep till spring.

BALTIC LADY. Oz. 10c; lb. 60c.

Too well known to need comment.

BOSTON MALLOW. Oz. 5c; lb. 90c.

An old standard staple, especially in and around Boston.

White Peas. The Experiment Station considers them as good a late or medium late potato as any before the public. They decide that the above four varieties are the cream of the list.

TOMATO.

Golden Queen. See Novelties. Oz. 25c; lb. $3.50.

Mikado. Oz. 25c; lb. $3.00.

We still give the Mikado the preference for an all-purpose tomato. We think the White Queen and Olympic are the best varieties, and find, and get more bushes of nice tomatoes than from any other kind. These are the result of our long experience of trying all of them.

Dwight Champion. Oz. 50c; lb. $6.00.

This is a great acquisition for an early tomato. It is not only very early, but the shape is equal to any of our best kinds. They are smooth and handsome, and ripen all over nicely, quite a little ahead of the Mikado. We think this toma- to is a decided acquisition. Price of the seed for the present will be double that of the Mikado.

Acme. Oz. 20c; lb. $2.50.

Too well known to need comment.

Trophy. Oz. 20c; lb. $2.50.

A comley tomato, but not as Acme.

Livingston's Beauty. Oz. 25c; lb. $3.00.

This is a production of the same Livingston who brought out the Acme and the Mikado, and this year he announces this superior to them all. They are better shaped and smoother than the Mikado, but the Livingston's Beauty is not so desirable as the Mikado.

Pear-Shaped Tomatoes. Oz. 20c; lb. $3.00.

These are handsome for pickles and preserves. We have them as two colors—red and yellow. They are immense bearers, and of good quality.

TURNIP.

Early Bloomdale Red Top. Oz. 5c; lb. 60c.

One of the best for the first turnip in the market.

White Globe. Oz. 5c; lb. 60c.

Very showy and handsome, as well as quite early. Last season they sold readily for a dollar a bushel in our market as fast as we could get them from the market.

Yellow Aberdeen. Oz. 5c; lb. 40c.

We consider this the best table turnip grown. When cooked it is so yellow that it will sometimes be mistaken for a squash.

Purple-top White-globe Turnip. Oz. 5c; lb. 40c.

This turnip, during the past extremely difficult season, raised a kind of turnip, gave us the best results of any thing we tried; and although the crop was not very large, the quality seems to be unusually fine for table use, especially when they are about as large as fair-sized apples. We have been selling them very freely at a dollar a bushel, and to-day, Dec. 28, we are just closing out our last bushel of them; and we could sell them at any price we ever thought of, and probably more, at the market price.

BLOOMDALE SWEDEN. Oz. 5c; lb. 50c.

Perhaps the best of the Rutabaga varieties.

NOVELTIES.

Vegetables tested on our grounds during 1888, and found worthy of a place in our catalogue. These vegetables tested during the past few years, and found worthy of a place in our catalogue.

Perhaps some of the friends will smile to think that, among all the novelties offered, I have made only these few selections. Well, the truth is, I have not tried all the new things: and some that I did try, I 10c; lb. 60c; and several had tried the new turnip before recommending them in my catalogue; and some others I did try I didn't find any better than some we have been selling.

Golden Queen Tomato. Pkt., oz.; oz. 25c; lb. $3.50.

This is a delightful novelty. I have been growing a few of the Golden Queen, and find it very much better than the others. It ripens earlier than the other kinds, and the fruit is round and smooth, and of a pleasing color. It is a good all-purpose tomato, and I am sure it will be a success in any garden.
Vegetable Plants.

These are one of our great specialties, and we are prepared to furnish cabbage and lettuce plants from the first of February till the first of August; celery-plants from the first of March till the first of September; tomato-plants from the first of April till the first of August.

Prices and Varieties.

Cabbage-plants.

We keep in stock during the months of Feb., March, April, May, June, and July, varieties as below:

SELECT VERY EARLY JERSEY WAKEFIELD. HENDERSON'S EARLY SUMMER, and WINNINGSTADT. 5c per 10; 100, 40c; 1000, $6.00; 10,000, $5.50. During May, June, and July, PLANT DUTCH LOUISVILLE DRUMHEAD, prices same as above. PERFECTION DRUMHEAD SAVORY CABBAGE, and LARGE RED DRUMHEAD ready in May, June, and July, 6c per 10; 60c per 100, or $5.00 per 1000.

Extra-strong, twice-transplanted plants, double above prices. If these are to be shipped by express, the expressage will be extra, on account of the great weight of the large plants.

Cold-Frame Cabbage-plants.

When we have these they will be double the price of the plants raised in the greenhouse. During the present season we have only one kind of cold-frame cabbage-plants: viz., extra selected JERSEY WAKEFIELD.

Cauliflower.

We have confined our attention to the one kind—HENDERSON'S EARLY SNOWBALL. Price of plants, 10c for 10; 75c per 100, $8.00 per 1000. These will be ready in March, April, May, and June.

Lettuce-plants.

We can furnish BOSTON MARKET, GRAND RAPIDS, HENDERSON'S NEW YORK, and DEACON LETTUCE. Prices, 5c per 10; 40c per 100; $2.50 per 1000, except the Grand Rapids, which will be double the above prices.

Tomato-plants.

These will be ready from April first till August first. We have the following varieties:

ACME, LIVINGTON'S BEAUTY, and MIKADO. The former will be 10c for 10; 75c per 100; $6.00 per 1000; or $60.00 per 10,000.

The MIKADO will be a half-more-than-the above prices. The difference in foliage readily indicates that the above is different from the common tomato.

PEAR-SHAPED TOMATOES, for pickles and preserves. Plants, both red and yellow, 8c for 10; 75c per 100; or $6.00 per 1000, ready in July.

All the above plants are once transplanted, and are strong-rooted.

Celery-plants.

We keep in stock HENDERSON'S WHITE PLUME, GOLDEN DWARF, BOSTON MARKET, and MAZE CLARK'S PINK. Prices, 5c per 10; 40c per 100; $2.00 per 1000; or $25.00 per 10,000.

Extra-strong, twice-transplanted plants, double above prices. If these are to be shipped by express, the expressage will be extra, on account of the great weight of the large plants.

Pepper-plants.

We expect to keep in stock BULLHUSE, CATENNE, and SPANISH PEPPERS. The price will be 15c for 10; $1.35 per 100; or $12.00 per 1000.

Kohlrabi.

During the summer of 1886 we had quite a nice trade in this vegetable, raised from plants started in the greenhouse. They were ready to use fully as soon as the earliest cabbages, and were preferred by many of our customers. The price of plants will be 10c for 10; 75c per 100; or $6.00 per 1000.

We can send plants by mail if enough is added to cover postage and packing, which will be 5c for 10, or 25c per 1000.

PRICE 5 CENTS PER PAPER 10 PAPERS, 40 CENTS; 100 PAPERS, $3.50.
1. **Strawberries.**

May be you will think I am a little queer, friends, but there are only three strawberries to which I feel bound as a mother to the friend they are the three _Kuropean_ (as the quartet is called), introduced by Peter Henderson. This is the latest strawberry we ever had any experience with and can send you nice young varieties from the first of March until the first of November. Price, 20c per bunch, 50c per half-bushel, $1.00 per bushel.

Last but not least I would recommend is the new _Jugoslav._ This is nearly as large as the Sharpless, much better of shape and color, and the fruit stands up on the stalk out of the dirt. Besides, the plant is a wonderfully healthy, strong grower. If ordered by mail, price for 10, or 15c per 100 for postage.

We can furnish strawberry plants, from April 1st until Dec. 1st, inclusive.

2. **Seeds of Honey-plants.**

I have for years had dreams of a honey farm, at different seasons, and keeping the bees away seems the most reasonable course. The _Kaspberry._ Large's spider plant, and the seven-top turnip, but these for honey alone. Mignonnette, catnip, motherwort, and the variety of honeysuckle. I am pretty well satisfied it will not pay to cultivate the catnip, borago, mellilot, and some others, I have to tell you, it is not, just for the honey.

2c For Alpine Clover, Buckwheat, White Dutch Clover, and Rape seeds, see our regular price list of bee-supplies, mailed on application.

**Bee-salms, on Melissa.**—During the year 1887, bee-keepers in many of our states have given the greatest attention, not only for the amount of honey it produces, but for the enormous number of blossoms found on a single plant. They have been so successful in raising these plants that the large number of thirty thousand seeds have been counted on one stalk. It is also so prolific in seed that bee-keepers can raise enough seed in a season for 2000 plants. We can supply the seed, Per packet, 5 cts.; per ounce, 15 cts.; per pound, $2.00. For sale in lots of 100,000 for November, 1887.

**Borage**—Long, strong, hardy, rapidly growing plant, bearing a profusion of blue flowers. It may be sown any time, but will, perhaps, succeed best, at about corn planting time. As it grows tall, and resembles our common com, it would have no room, I know that bees are very busy on it, all the day long, from early July to November but I do not know how much honey one acre of it would furnish. It is easily tried, because it grows so readily, and if sowed on the market, it is likely to sell very easily, and we may get a nice crop of fall bloom. Sow broad cast, or in hills like corn. Borage is also used as a salad, or cooked as spinach. Per ounce of 1 oz., or 5c per lb. If wanted by mail, add 15c per lb. for postage.

**Catnip.**—This has been very much talked about, and we have record of some experiments with an acre or more, but if I am correct, no one has ever yet seen a barrel of catnip honey. If you wish to try, we can furnish your seed, that we have tested ourselves, for 10c per oz., or $1.00 per lb.; 15c per lb. extra, if wanted by mail. Sold in the fall.

**Chamomile.**—This is well known in European countries, "globe thistle." It was introduced by Mr. H. C. Chapman, of Versailles, N. Y., who is a horticultural specialist, and I claim that it is a paying investment. His seed has been turned over to the government, and may be obtained from the government. There is no plant more convenient to get of us, however, we can furnish it in 5-packets containers.

**Dandelions.**—I presume every body can get dandelion seeds and roots without buying them, but for all that, I have much faith in an acre of cultivated dandelions. French thickness, being sea-pier for "greens," and by the way our bees take to our "patch" of it, I think it must be superior for honey. Price of seed, 5c per ounce, or 15c per lb.

**Figs.**

For Simpson Honey-plants. This is a queer tall weed that grows in fields and woods, and bears its fruit on the year next it's sowed. We have introduced so much honey under cultivation on our honey farm during the past two years, that I am much inclined to place it at the head of the list of honey-plants. It bears honey all the day long from July to October. Very hardy; blooms first year, and after that shoots up from the root every year, but needs planting anew, about every three years. The seed sometimes lies in the ground many months before germinating. If sprinkled on the top of damp leaf-mold, packed hard in a box, and rolled hard, being kept dark and damp in a warm place, the seed will sprout out and produce all the light and air possible, but not too much water. Price of seed, from cultivated plants, 25c per oz., 50c per half-bushel, $1.00 per bushel.

**Honey Pea.**—This is the stick pea of the South, and often yields much honey. It is also used for food. Price, $1.75 per bushel; $1.00 per half-bushel; 60c per peck, packages included; per lb., 85c; by mail, 85c extra. A bushel weighs about 90 lbs.

**Horse-nose, the celebrated honey-plant of Texas.** Per oz., 15c; per half-bushel, 25c; per bushel, 50c, extra. Cerclela, bee clover. This latter blossoms in about six weeks after sowing and bears a small blue flower. Price of seed, 10c per oz., or 5c per lb.; if wanted by mail, add 15c for bag and postage. Lippia or Mexican mint description see Dec. '79 Gleanings. Per oz., $1.00. Per pt., 5c. Give hot-bed treatment.

**Mignonette.**—This is a great favorite with the bees, and also with those who are raising plants for their bees; has been used as a honey plant, with the usual success. I think the seed for bee pastureage, I am not sure that any one has ever made it pay in dollars and cents, for the honey alone. It may pay to raise the seeds by mulch, especially if the price keeps near what it is now. The tall varieties seem best suited to the bees, but are not as fragrant. It should be sown in the spring, and as the seed is small, it should have fine sand, or soil, and be covered lightly. This plant seems to have a rare ease about it, and I think it may often be seen busy upon it clear into October. The seed is 20c per oz., or $1.00 per lb. If wanted by mail, add 15c extra for postage.

**Motherwort.**—This is a near relative of the catnip and is probably equally valuable as a honey plant. Prices of the seed, same as for catnip. Sow any time.

**Mustard.**—The honey from this is said to be very light, equal to any in flavor, and to command the highest price in the market. We can furnish the common, (either white or black) for 10c per oz., or 25c per lb. extra.

**Portulaca.**—Best mixed; A bed of portulaca, say a rod square, will show more bees in the work of forage, than we can with any other flower I know of; furthermore, a bed of mixed portulaca, equivalent to a square rod, makes one of the hand- some localities. If not grown in the field, and allowed to bloom, the whole floral kingdom affords. It does not seem to me that any bee-keeper ought to be without a bed; and I might also say, no lover of flowers can well afford to forego the gorgeous spectacle of a bed of mixed portulaca, especially when the seed is only 5c per oz., a paper. One package will cover a square rod of ground nicely. You can have the square rod laid out in artistic beds and walks, if you choose.

**Raspberry.**—A pretty good honey-plant, too well known to need description. The Red Raspberries were thought to be a bad honey, and of late Mrs. Turner and Cutberrt varieties are said to be best.

Price of plants, per ten, 40c; per hundred, $2.50. If ordered by mail, 50c extra per package.

**Rocky Mountain Bee Plant.** (Coleus integrifo- lia) Is closely connected with the noted Spider Plant (C. pungens), these two being the only species of the Coleus. With us, it is much inferior to the Spider Plant as a honey producer. We have reports from some localities of its yielding large quantities of honey, hence, quite a demand for the seed is the result Price per lb., $1.25, postage 15c extra. Per ounce, 15c.

**Sage, White (Salvia argentea).—Is called the honey plant of California, and belongs to the Labiate Family similar to catnip and thyme.** Hoar bound, &c. Price per ounce, 35c, per lb, $1.00.

**Sweet Clover (Melilotus albus, or Melilot).—This

**5c PER 5 CENTS PER PAPER; 10 PAPERS, 40 CENTS; 100 PAPERS, $3.00.**
has some valuable traits, as standing frost and drought, but many times and seasons, the bees will hardly notice it at all. The statement has been made that an acre will support 30 colonies of bees, and afford from 500 to 1,000 lb. of honey. Such statements, although they may be roughly given, I think should be received with due allowance; about four pounds of seed are needed for an acre; so like Althea, it will grow on almost any barren hillside, but it is a bad weed to exterminate; if, however, it is mown down to prevent seeding, the roots will soon die out. Sow in spring or fall. We have it on our honey-farm, but it is rather the Simpson honey-plant in this locality.

Common sweet Clover, per lb., 18c; 10 lbs., $1.50; 100 lbs., $12.00; if wanted by mail, add 18c for bag and postage. This is sold with the hulls on; the Bokhara is baled.

Bokhara clover, seed received from D. A. Jones; 10c per oz., or 35c per lb.; 10 lbs., $3.00; 100 lbs., $35.00, for cash, add 15c per lb.

**SUNFLOWER.**—This plant is visited by the bees in great numbers in some seasons, while, in others, it is scarcely noticed; but, as the seeds usually pay all expenses of cultivation, it holds its place as a honey plant. The mammoth Russian bears by far the largest blossoms, as well as the largest seeds. Price of seed 5c per oz. or 10c per lb.; 10 lbs. or over, 5c; 100 lbs. 7½c. If wanted by mail, add 18c for bag and postage.

**SPIDER PLANT.**—This plant, under favorable circumstances, yields more honey than anything that ever before came under my observation.

In Oct., 1879, each floweret yielded drops so large that a bee had to make two or more journeys to get it all, and I succeeded in dipping the honey from the plant with a spoon, until I half filled a bottle with it, for experiment. As it only yields this honey early in the morning, and late in the evening, it will go nicely with the Simpson honey plant. I should think it quite probable that 5 acres of each of these plants would keep 100 colonies busy enough to be out of mischief during a dry fall, when bees are so apt to be robbing. For particulars concerning both plants, see A B C of Bee Culture.

The Spider plant is an annual, and should be sown every year; it grows most quickly with hotbed treatment, but will blossom in August if sown in the open ground in May.

Price of seed — per package, 5 c.; per oz., 20 c.; per lb., $3.00. Postage 18c per lb. extra.

**SEVEN-TOP TURNSIP.**—This plant, although not equal to the spider plant and Simpson honey plant, is entitled to a place next to them, because it bears its crop of honey in the spring, between fruit blossoms and clover. It should be sown in Aug. and Sept. It bears no root like the ordinary turnip, but only foliage that is used for greens. Price of seed, 1½c per oz., or 50c. per lb. (if wanted by mail, 18c. per lb. extra).

Any of the above seeds will be sent in 5c packages, to those who would like just a few to try.

**OTHER HONEY PLANTS.**

The following are recommended as honey plants, but I have not brought them worthy of a more extended notice for cultivation. Some of them have been tried on our grounds but either yielded no honey at all, or very little, and I have thought best to put them in here until we could give them a more extended trial. We keep the seed for sale in 5c packages; if larger quantities are wanted, we will give prices on application.

**CLOVERS, foreign.**

**ALPalfa,** grown principally in the Pacific States. (This is virtually the same as Lucerne). Price per lb. 30c; peck, $2.75; ½ bushel, $5.25; bushel, $10.00.

**ITALIAN OR SCARLET (T. incarnatum), introduced from Italy and France. The flowers are most beautiful, much resembling a large luscious strawberry. Blossoms first year.**

**LUCERNE OR FRENCH (Medicago sativa), best for sandy soils.**

**YELLOW HONEYFOWL (Medicago lupulina), a weed or pasture plant, in dry or sandy fields.**

**ENYRHYTHM (False Wall Flower).—Belongs to the Cruciferae or Mustard family, and comprises three species.**

**FULLER'S TEASEL (Dipsacus fullonum).—A variety of teasel, usually cultivated; is valuable for carding wooden cloth, as well as for honey.—See A B C.**

**HYSSOP (Hyssopus).—Only one species (H. officinalis), and belongs to the Mint family; is cultivated, and was brought from the Old World.**

**MOLLIE HEATH honey plant, a species of acaulis, having a more beautiful ornamental foliage, and called the very valuable honey-plant. We have got it to blossom here only by wintering over in the greenhouse. Only one plant of the payts for all trouble and expense.**

**SPRING VETCHES OR TARES (Vicia sativa).—Seems to be a cross between the Peas and Clover, partaking of the peculiarities of each, and belongs to the same family, Leguminose. Does not yield honey with us.**

**MISCELLANEOUS IMPLEMENTS FOR GARDENERS, BEE-KEEPERS, Etc.**

**TRANSPALNTATION-COFFERS FOR SEEDLINGS.**

To give drainage and strength, we have the bottom made up of small slats only four inches wide, and only ½ inch thick. They are nailed on crosswise, as you will notice. Such light stuff would not be strong enough if put on lengthwise of the box. The sides of the box are 1½ x ½ inch. These are very easy to carry about, and answer just as well for small plants. We have used one of these boxes, we, in the spring of 1886, got 7500 celery-plants. After the first leaf had formed they were taken up and planted into similar boxes, as shown below:

A BOX OF WHITE-PLUME CILERRY-PLANTS AS IT APPEARS WHEN FIRST TRANSPLANTED.

Price of seed-boxes, as shown above, made complete, 15c each. Price of stuff in the flat, in lots of 10, 50c; 100 in the flat, $8.00.

You will observe that there are 10 rows of plants, and 30 plants in a row, so it took 25 boxes, with 300 plants each, to contain just what grew in one single seed-box.

**TRANSPALNTATION-FRAME.**

The above is made by stretching a piece of poultry-netting over an iron frame. This is then laid over one of the plant-boxes shown above, and the plants made up in the center of each mesh. Celery plant seedlings we put two in each mesh—a plant in each sharp corner. This spaces them properly, without leaving any empty space, and lays out the work so that even a child may learn to transplant seedlings, and do it well and rapidly. Price of transplanting-frame, for the above boxes, to contain 3000 plants, 50c.

You will observe, that the above arrangements completely fill the ground, and arrange the plants in the most economical way; the cells in a honey-comb—that is, each plant is the center of six others, equally dis-
TRANSPANTING-TUBES.
A NEW THING IN MARKET GARDENING.

These tubes are used for transplanting all kinds of vegetable plants and their use answers as a substitute for potting plants in transplanting strawberries. They are made of heavy tin. The manner of using them is as follows: Take a wheelbarrow full out to your strawberry-field; set one of the tubes over the little plant, then place your foot squarely over it and crowd it down, so half its depth. This operation cuts the running water off when you pull it out of the soil you will find you have a ball of earth around the plant. So you will have with dotten plants. The earth holds so securely that you can toss them into the wheelbarrow and the plant hands, when you have as many plants as you wish, wheel them to the field, where your ground is properly prepared; bush them into the soft soil, with two hands, bring the dirt around the tube, about level with the plant inside. When you have got your plants all set, pour half a teacupful of water into each tube; and as soon as the water has soaked into the soil so as to make it like mud, your tins will lift out as easily as if the contents were hot brat. Your plants grow in the soil, in just the shape it stood naturally—not a root is disturbed. It has had a good watering and the foliage will not wilt, even if you put it right in the blazing sun on a hot summer day. In the latter case I would throw a mulch of soft earth over the wet soil around the plant, to prevent baking. Cabbage, tomato, lettuce, celery, peppers, cauliflower, kohlrabi, etc., may be transplant-
ed in the same way, and it matters not whether it rains or not. Another thing: For vegetables you can have the soil in the seed-bed made very rich by manure, guano, bone-dust, etc., and the ball of earth that goes with the plant to the field will go a great way toward making the crop, even if your ground is poor. Here the soil is in proper condition, there is no difficulty at all in pushing the tube and plant deep enough without making any excavation. With poor soil, however, it may sometimes pay to take an empty tube, to make a hole for the new plant.

For these transplanting-tubes: 25 cts. for 10; $2.25 per 100; $20.00 per 1000. If shipped before the season is locked together, they will pack in much smaller shape. In this shape we can send them for $2.50 per 100, or $15.00 per 1000. These transplanting-tubes are also excellent for transplanting single stalks of melons, cucumbers, etc., where cut-worms have destroyed an occasional hill.

NEST OF TRANSPLANTING-TUBES, MADE OF GALVANIZED IRON.

Where you wish to move a whole hill of melons, cucumbers, or squashes, or other large plants, transplanting-tubes made of galvanized iron, large enough to get the young plant up and out of use. To prevent soil from dropping out, slip a srap of shovcl over them while the hill is being moved. We can furnish them in the following five different sizes, as shown above, for 50 cts.

PAPER SEED-BAGS.

Large size, to hold ounces, $1.50 per 1000, or 20 cts. per 100. Medium size, to hold half an ounce, $1.35 per 1000, or 15 cts. per 100. Small size, for very expensive seeds, $1.15 per 1000, or 15 cts. per 100. If wanted by mail, add for postage 1 cts. per 100 respectively. The same printed to order (not to exceed 50 words), 25 cts. per 100, or $1.00 per 1000.

LABELING STAKES FOR THE GARDEN.

Now, the above-moxt things for labeling the seeds, which are the same as we use for all our seeds, are stout wa-
ter-proof manilla paper, and we find them the very best thing for labeling the seeds, as the small size of which we have ever got hold of. Tack them on to a pine stake, like the one figured below; and after standing around all winter in the snow and rain, the print can be read just as easily as when first put on.

These stakes, as you observe, are made tapering, and thick enough at the large end so that, if you blunder over them, they may be kicked out of the ground, but can not be broken off. Price of stakes, one cent each; 10 for 8 cts.; per 100, 75 cts. These are too heavy to be sent by mail, unless you want just a sample. In that case, the postage will be 3 cts. extra.

BOXES FOR STARTING SQUASHES, MELONS, CUCUMBERS, ETC.

During my visit to Ar-
lington, in July, 1886, I no-
ticed that there were some box-
wers had a plan for getting
Boston Marrow squashes on the market very early.

It is by means of the boxes shown in the adjoining cut.

These, as you notice, are made so as to nest one in the other, occupying but little room when stored away, or drawn out on the wagon. An 8X10 glass slides in the top. These boxes can be used for putting over hills of early potatoes in March and April; and when the potatoes are out of danger the boxes will do good service in forwarding squashes, melons, and cucumbers. After all danger of frost is past, the glass may be drawn out, but the box is left on, as a protection against bugs. If the bugs are very bad, however, you will have to tack on cheese cloth. The bese bug will eat through mosquito bar. As the glass is to move loosely, it is not a very long job to slide them all back when the cold frame. I was astonished while at Arlington to see squash-vines fully a month ahead of the usual time; but I was told the explanation of it. Don't fail to have a big lot of good manure under every box (see our little book, "Gregory's Squashes"), for these boxes hold, in March and April, boxes without glass, in the flat, 10 cts. each; 25 cts. for 10, $1.50 per 100. Glass to match, $2.50 per box of 30 square feet. There are about 80 lights in a box.

POTATO BOXES.

(TERRY'S).

These are made of basswood, bound with galvanized iron. The galvanized iron gives strength, and the bound with galvanized iron gives strength, and the galvanized iron gives strength to those holder's bushel and may be piled on the top of another. Although they are made especially for potatoes, they can be used for fruit, vegetables, picking up stones on the farm, and a thousand other purposes. When piled one above the other, they manure from the sun and rain; and from their shape a great many more bushes can be set into a wagon than where baskets are used. In fact, no other such boxes are so substantial as baskets.

Price 25 c each; 10, $2.25; 100, $20.00. In the flat, including nails and galvanized iron, $1.75 for 10; $16.50; 100; $150.00.
OUR

$4 Daisy Wheelbarrow
Strongest and neatest barrow made for gardeners, berry-keepers, merchants, delivery businesses, and general use. Has 6 in. steel wheel, axle, and leg; steel springs with adjustable brakes. Exquisitely painted and varnished. Weight 55 lbs. Price $4 and $4.25.

PYRETHRUM ROSEUM.
(Persian Insect-Powder.)

This is not only a pretty plant for the flower-garden, but it is an admirable insecticide for the powder, for it is then in full bloom, and finely powdered, furnishes us the Persian insect-powder, of which so much has been said. The powder sells for 50 cts. to $1 a pound, and even then is often largely adulterated. With us it has been the custom to kill all sorts of small insects, laying them out dead in a few minutes, of any thing we have ever got hold of. We have heard, but in the respect given to the powder below, but a very little of the powder is required.

INSECT POWDER BELLOWS: PRICED.
$1.00; SIZE 6X8 INCHES.

With the above instrument you can kill every fly in any room in an hour, but if you have a house, of course, the doors and windows of the room should all be closed; but where it is not practicable to do this, you can do it while your flowers are out in bloom. When in full bloom, and finely powdered, furnishes us the Persian insect-powder, of which so much has been said. The powder sells for 50 cts. to $1 a pound, and even then is often largely adulterated. With us it has been the custom to kill all sorts of small insects, laying them out dead in a few minutes, of any thing we have ever got hold of. We have heard, but in the respect given to the powder below, but a very little of the powder is required.

SLUG SHOT.

We have used this for several seasons, and find it a pretty good remedy for cabbageworms. It is also recommended particularly for potato-beetles, and grasshoppers, and is a good item. It is said to be a fertilizer for the ground, but is so harmless that you can use it for tooth-powder; if you choose. He- sides, it is very cheap. One pound, 5 cts.; 1 lb., 25 cts.; 10 lbs., 75 cts. Price of the seeds, one packet, 5 cts.; one ounce, 75 cts.; 1 lb., $1.75.

GOODS ESPECIALLY FOR POULTRY RAISERS.

PURE BONE MEAL.

Coursely ground, expressly for poultry. Per lb., 5 cts.; 5 lbs., 3 cts.; 10 lbs., 2 cts.; per lb.; by the barrel, shipped from factory, 2 cts. per lb. Fowls will eat this almost as greedily as corn; and it not only furnishes material for egg-shell, but it gives them some of the animal juices, and makes them matters besides. Excellent for laying hens. It is safe for thin-shelled eggs.

SUNFLOWER SEED, MAMMOTH RUSSELL, per bbl., 10 lbs., 80 cts.; 100 lbs., $7.50.

Sunflower seed-just as good for poultry, one-half the above prices.

BOOKS ON GARDENING, HORTICULTURE, FARMING, ETC.

I have indicated my opinion of the books by characters at the head of the list. The books, as marked, have marked with a *; those I especially approve of, **; those that are not up to times, *; books that contain but little that is new, **. I have not put in any of the books in this space between the lines; 7 foreign, 8. The figures at the left indicate the amount of postage.

5 | A B C of Carp Culture, **
6 | A B C of Potato Culture, Terry **
7 | An Egg Farm, Stoddard
8 | Barn Plans and Out-Buildings
9 | Cranberry Culture, White's
10 | Fullier's Grape Culturist
11 | Gardening for Profit, Henderson
12 | Gardening for Profit, new edition
13 | Gardening for Young and Old, Harris
14 | Gardening and Farm Topics, Henderson
15 | Gregory on Cabbages; paper
16 | Gregory on Squashes; paper
17 | Gregory on Onions; paper
18 | Success in Market-Gardening
19 | Talks on Manures
20 | Irrigation for the Farm, Garden, and Orchard, Stewart

This book is new by a real, live, enterprising, successful market-gardener, located near Boston. John A. Mason, friend of my acquaintance, says: "This book is just what I have been after and I believe many people will be glad to have. It is very practical and gives very full directions."

7 | Insects, Cook, **
8 | Irrigation for the Farm, Garden, and Orchard, Stewart, **
9 | Talking about the Sea, **
10 | A Manual of Garden-Manuring, **
11 | The Common Garden, **
12 | The Best Flowers for Summer and Winter, **
13 | Practical Gardening, **
14 | The Successful Market Gardener, **
15 | The Best Flowers for Summer and Winter, **
16 | Insects, Cook, **
17 | Seed Catalogue, **
18 | The Best Flowers for Summer and Winter, **
19 | Gardening for Profit, Henderson, **
20 | Gardening for Young and Old, Harris

This book is by a real, live, enterprising, successful market-gardener, located near Boston. John A. Mason, friend of my acquaintance, says: "This book is just what I have been after and I believe many people will be glad to have. It is very practical and gives very full directions."

A. I. ROOT, Medina, O.