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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 package; but, of course, we are obliged to put in a number of seeds into such packages. This will be noticed with the Bush Lima Bean, Snow Pea, Cauliflower, etc. Now, these 5-cent papers are all sent by mail postpaid; but when you order seeds by the ounce or pound, allow thus: 5 cents per pound; 1 cent per half pound, 4 cents per ounce. Beans and peas by the pint and quart must also have 8 cents per pint, or 12c per quart, added for postage; on corn, add 15c per quart for postage. Postage to Canada is now just double above rates. One-half pound, one pound, or peck will be sold at ounce, pound, or peck rates, unless otherwise specified.

OUR WARRANT ON ALL THE SEEDS WE SELL.

Now, friends, this is somewhat of a difficult matter; but I feel free to say, at the outset, that we guarantee the contents of the packages as to what they are as labeled, and seeds to be fresh, other than our own raising or purchase. And of some one having a good reputation, who makes seed-growing a specialty: that is, we warrant them to this extent: If the seeds do not seem to be as productive, and from ten days to two weeks earlier. If there is any fault with them, we are usually one of the first to find it out.

ASPARAGUS.

Asparagus, Palmetto. Oz. 5c; lb. $ .75.

We have given this new variety a trial beside the Colossal, and it certainly is a stronger and more robust plant.

Asparagus Roots. 2 years old. Palmetto. 10 for 10c; 50 per 100: $6.10 per 100. By mail, add 5c for 10, or 25c per 100.

BUSH BEANS.

Henderson’s New Bush Lima Bean. 1/4 pt. 10c; qt. 35c; peck, $2.50.

In our catalogue for 1889 we pronounced this the most important novelty for 1890. It is a genuine bush lima bean, only that it is much smaller than the pole lima; and is certainly a valuable acquisition to many who can not well go to the time and expense of providing poles. It is exceedingly prolific, each stalk or stem bearing from 30 to 100 pods, under good cultivation. The extra trouble of picking and shelling, in order to get them ready for the table, is the only drawback. We sold them at 10 cents per pint last summer, month after month.

Kidney Wax. Pt. 15c; pk. $1.50.

This is an improvement on the ordinary Golden Wax Bean, giving us larger pods, more perfectly free from rust. This bean is a decided acquisition.

White Kidney, Large. Pt. 10c; pk. $1.25. Bu. $4.50.

One of the best to use shelled, when green or ripe. We sell bushels of these at 10c a pint, shelled green. We market them in new pint strawberry-boxes.

York State Marrow. The best field bean. Pint, 10c; peck, $1.00; bush, $3.75.

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, with 8 cents per pint in acquisition. Price, 4c pt. 15c; qt. 3c; peck, $2.25.

King of the Garden Lima. 1/4 pt. 10c; qt. 35c; peck, $2.25.

These are fully as good as the common lima, and the pods care considerably larger, adding time in picking and shelling, as well as increasing the yield. We get 15 cents per pint for these, when green. See White Kidney bean above.

All of our beans will be furnished in 5-cent packages; but, where they are to go by mail, postpaid, of course the above packages will have to be quite small. If wanted by mail, add 8 cents per pt. or 15c per qt. for postage.

BEETS.

Eclipse. Oz. 5c; lb. 40c; 5 lbs. $1.50.

These have given us the best satisfaction 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 limbs is fully equal to anything 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.

Beets’ Improved Sugar. Oz. 5c; lb. 25c; 5 lbs. $1.00.

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, and make an excellent table beet. Has yielded as high as 39 tons to the acre.

Long Red Mangel. Oz. 5c; lb. 30c; 10 lbs. $2.50.

Yields enormously, and is the most profitable for stock, but not so sweet as Lane’s Improved. Seed is of our own raising, from selected roots.

CABBAGE.

Select, Very Early Jersey Wakefield. Stock seed. Oz. 20c; 1 lb. $2.50.

Our cabbage seed this year is raised by H. A. March, Fiddalco Bay, near Janet Sound, Washington Territory. Thousands of sample packets were sent out by us in 1888, and friend March’s seeds ought to be pretty well known. The Early Jersey Wakefield, of the 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 8c each, raised from plants started in the greenhouse in February.

Henderson’s Early Summer. Oz. 20c; 1 lb. $2.50.

This comes next to the Jersey Wakefield, and although it is an early cabbage, under very favorable conditions it produces large heads more than any other. We have included.

Fotller’s Brunswick. Oz. 20c; 1 lb. $3.00.

This is one of the old staple varieties, and is perhaps planted as extensively as any one variety, from medium to late cabbage. Staying a long time without bursting. Our seed was raised in the greenhouse by H. J. Wakefield, and our entire stock is stock seed; that is, it is from the very best heads that could be selected out of a field of several acres.

1886.
A. I. ROOT’S CATALOGUE OF
SEEDS FOR THE GREENHOUSE, GARDEN, AND FARM.
AND ESPECIALLY FOR BEE-KEEPERS.

Excelsior Flat Dutch. Oz. 15c; lb. 2.00.

Perfection Dutch Savoy. Oz. 15c; lb. 2.00.

Large Red Drumhead. Oz. 20c; lb. 2.00.

New Bose. Oz. 20c; lb. 2.25.

Early French Forcing. Oz. 5c; lb. 60c.

Large Red Drumhead. Oz. 20c; lb. 2.00.

Golden Self-Blanching Celery. 1/4 oz., 10c; 1 oz., $1.50.

Henderson's Early Snowball. Raised by H. A. March. 1/2 oz., 10c; 1 oz., $1.00.

Soft Golden Celery. 1/2 oz., 10c; 1 oz., $1.50.

Corn (for Table Use).

Phinney's Early. Oz. 5c; lb. 50c.

Ford's Early Citron. 1/2 pt. 8c; qt. 20c; pk. $1.25; bushel, $4.50.

Extra Early Citron. Oz. 5c; lb. 60c.

Boston Market (or White-seeded Tennis-ball). Oz. 5c; lb. 60c.

New Bose. Oz. 15c; lb. 2.00.

Early Frame. Oz. 5c; lb. 50c.

Improved Early White Spine, or Arlington. Oz. 10c; lb. 75c.

Green Spine. Oz. 5c; lb. 60c.

Kohlrabi.

White Vienna. Oz. 10c; lb. $1.35.

Cucumer.

Grand Rapids Lettuce. 1/4 oz., 10c; ounce, 20c; pound, $1.15; 5 lbs., $7.50. This seed is from the originator, Eugene Davis.

Boston Market (or White-seeded Tennis-ball). Oz. 5c; lb. 60c.

Casaba, or Persian Musk melon. Oz. 5c; 1 oz., $1.00.

Melons, Musk.

Emerald Gem. Oz. 10c; lb. 75c.

Carrots.

Phinney's Early. Oz. 5c; lb. 50c.

Landreth's Boss. Oz. 5c; lb. 60c.

ONION.

Silver skin, or White Portugal. Oz. 35c; lb. $4.00.

Yellow Globe Danvers. Oz. 20c; lb. $2.50; 5 lbs., $12.00 per 100.

Spanish King, or Prize Taker. 1/4 oz. 10c; oz. 35c; lb. 50c.

Our seed is the best we can get, and we cannot undertake to compete with cheap foreign-grown seeds.
proper culture (see Spanish King) grow to an immense size. I regard it as the kind of turnip on which the old-fashioned early onion I have seen.

American Pearl. oz. 35c; ¼ lb. $2.60; lb. $5.00. Sets, per qt., 35c; peck, $2.55. By mail, 10c per peck. Sets only sold in autumn.

In September 1890, Johnson & Stokes were so very positive that they would not sell any of this variety, and I was forced to send in September that I sent for half a peck of sets for trial. They seem to have an extra-large root, and grow nicely in the ground. Wintered without any injury I could discover. In the spring they started to grow at once, and made immense growth. Some of them were raised in the greenhouse and some in the open. In the greenhouse had no chance to make an onion of marketable size, though the roots were a little smaller than hen’s eggs, and kept on selling until they were three inches in diameter. We paid 10c for them at such an unusual time of year. The sets may be ordered any time in September, and we think at any time in October, providing frosts hold off. This new way of growing onions, we think, will be as good, or better, in 1893, but they do not give like success in all localities.

ONION SETS.

We have these of Yellow Danvers and Silverskin.

Prices of yellow, 3c each; of green, 5c each; or, $1.50 per bushel. Silverskin, one-half more than above prices. If wanted by mail, send 10c per quart extra.

Large size (often used for pickles) one-half above prices.

Winter, or Egyptian Onion Sets. Prices, 15c per qt., or 1$t per peck. By mail 10c per peck extra. This one does not produce a bulb at all, but grows to a very inferior one. All it is raised for is its long slender succulent root, or small bulb, at the lower end. It has such an invertebrate habit of growing that it grows any time of year, in the ground or out of it, and, in fact, almost the only place to keep it is in the ground. During August and September the sets may be gathered and sown. You can, with care, get over winter. The sets grow in the form of little onions, on the top of the stalk, like the old-fashioned onions. We can get them in every state we have ever seen these sets as soon as they are ripe, say about the middle of August; then we sprinkle them in a basin as we would peas, say from three to five inches apart.

PARSNIP.

Improved Gurney’s. Oz. 5c; lb. 25c; 10 lb., $2.50.

Price same as small radish, except for peas. The best parsnip we have found yet.

PARSLEY.

Fine Curled or Double. Oz. 5c; lb. 50c.

PEAS.

Alaska. ½ pt, 5c; peck, $1.25; bushel, 45c. This pea is not the earliest of any kind we have ever tried, but strange to tell, it is also of a delicious quality, very productive, and an excellent pea in every respect, except that the pods look ready to pick before the peas inside are large enough to amount to anything. If you pick them when they look plump and full you will disappoint your customers, and the only place to keep it is in the ground. During August and September the sets may be gathered and sown. You can, with care, get over winter. The sets grow in the form of little onions, on the top of the stalk, like the old-fashioned onions. We can get them in every state we have ever seen these sets as soon as they are ripe, say about the middle of August; then we sprinkle them in a basin as we would peas, say from three to five inches apart.

American Wonder. ½ pt. 5c; peck, $1.25; bushel, 45c. This is a cross between the Champion and the Little Gem. The peas are from 6 to 8 inches high. They are of a sweet type, and very hardy. On account of its dwarf habits it can be grown very easily under glass.

Stratagem. ¼ pt. 10c; qt. 25c; peck, $1.00; bushel, $3.50. This has made its way rapidly in public favor. It is not a very early variety, being ready before the Alaska, but a very inferior one. It all it is raised for is its long slender succulent root, or small bulb, at the lower end. It has such an invertebrate habit of growing that it grows any time of year, in the ground or out of it, and, in fact, almost the only place to keep it is in the ground. During August and September the sets may be gathered and sown. You can, with care, get over winter. The sets grow in the form of little onions, on the top of the stalk, like the old-fashioned onions. We can get them in every state we have ever seen these sets as soon as they are ripe, say about the middle of August; then we sprinkle them in a basin as we would peas, say from three to five inches apart.

Champion of England. Pint, 15c; peck, $1.00; bushel, $3.50.

So well known as to need no recommend here.

Facts on mail will be at same rate as beans for postage.

BEANS.

PEPPERS.

Sweet Spanish. ¼ oz. 10c; 1 lb. 25c. This is preferred by every, because it gives as good, or better, a result in every way, and so small in size that we sell them all along in the fall at the rate of two for a nickel. In market prices people will pay more for early pumpkins for pies than for any kind of squashes.

Connecticut Field. ½ pint, 5c; quart, 15c; peck, 55c; bushel, $2.00. If wanted by mail, add at the rate of 16c per quart for postage.

RHUBARB.

Myatt’s Victoria. Oz. 10c; lb. $1.00. Roots, 10c each; 50c for 10; $3.00 per 100. If wanted by mail, add 15c per 100.

RADISHES.

Early Scarlet Globe. Pkt. 5c; oz. 10c; lb. 40c. This is the radish that Vick gives such a beautiful chromo of in his catalogues for autumn planting. In the greenhouse, it is ahead of any other in the way of forcing radishes. They begin to form a bulb almost as soon as the second leaves come out. They are very hardy, and of exceedingly rapid growth.

Wood’s Early Frame. Oz. 10c; lb. 75c. The very best long radish for raising under glass, or for earliness.

Beckett’s Chartier. Oz. 5c; lb. 40c. A novelty, and one that has given us the greatest satisfaction of any we have ever raised. It is hardy, and grows well in the greenhouse, but, in fact, almost the only place to keep it is in the ground. During August and September the sets may be gathered and sown. You can, with care, get over winter. The sets grow in the form of little onions, on the top of the stalk, like the old-fashioned onions. We can get them in every state we have ever seen these sets as soon as they are ripe, say about the middle of August; then we sprinkle them in a basin as we would peas, say from three to five inches apart.

SALSIFY, OR OYSTER PLANT.

New Mammoth. From Sandwich Islands. Oz. 10c; lb. 1.25. We have grown this side by side with the common salsify, and we find the root of this variety is much better, and good in other respects; they are, therefore, without question an improvement. Their own specimens are almost as large and smooth as parsnips.

SPINACH.

Bolmores Extra Curled. Oz. 5c; lb. 25c. 5 lbs. $1.00. It combines as many of the good qualities as any other.

SQUASH.

SUMMER.

Giant Summer Crookneck. Oz. 10c; lb. 65c. This is one of the earliest and largest squashes we have ever raised, and we find the root of this variety is much better, and good in other respects; they are, therefore, without question an improvement. Their own specimens are almost as large and smooth as parsnips.

TOMATO.

Golden Queen. Pkt. 5c; oz. 20c; lb. $2.50. This is a specialty of ours, and we highly recommend it for raising in the greenhouse, except its beautiful golden yellow color; but at the same time the tomato is good-sized, and remarkably smooth and regular. Not one of the red or yellow kind. These are our own raising, and are raised on the cold frame until frost, and are set out for autumn as soon as possible. We are very much pleased with them. We would call special attention to our Hubbard squash. We offer stock seed—that is, seed saved only from the choicest specimens; and as we have taken care to see that the stock seed is our own raising, and are saved only from carefully selected seed.

HUBBARD. Oz. 10c; lb. 1.25.

We would call special attention to our Hubbard squash. We offer stock seed—that is, seed saved only from the choicest specimens; and as we have taken care to see that the stock seed is our own raising, and are saved only from carefully selected seed.

WINTER.

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GIANT SUMMER CROOKNECK. Oz. 10c; lb. 65c. This is one of the earliest and largest squashes we have ever raised, and we find the root of this variety is much better, and good in other respects; they are, therefore, without question an improvement. Their own specimens are almost as large and smooth as parsnips.

HUBBARD. Oz. 10c; lb. 1.25.

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Our Experiment Station, Columbus, O., says there is no better winter squash than the Hubbard. There is no better winter squash than the Hubbard. There is no better winter squash than the Hubbard.
Dwarf Champion. Oz. 20c; lb. $2.50. This is a production of the same Livingston who brought out the Acme, Trophy, Favorite, and Perfection; but he pronounces this superior to them all. They are better shaped and smoother than the Mikado, but not so large.

Dwarf Champion. Oz. 20c; lb. $2.50. This is a production of the same Livingston who brought out the Acme, Trophy, Favorite, and Perfection; but he pronounces this superior to them all. They are better shaped and smoother than the Mikado, but not so large.

Livingston’s Beauty. Oz. 20c; lb. $2.00. These are handsome for pickles and preserves. They are immense bearers, and of good quality. About the size of hickory nuts.

Pear-Shaped Tomatoes. Oz. 20c; lb. $2.50. These are handsome, for pickles and preserves. They are immense bearers, and of good quality. About the size of hickory nuts.

TOMATO-PLANTS.

We have tried to get along without this tomato; but its earliness, uniformity, and solid, thick, round, smooth shape, and, more than all, dwarf, compact habit of growth, permitting it to be planted as close as 3 feet apart, commands it so highly that we have concluded to offer it again, though it may look a little longer than it is.

Extra-Early Tomatoes. Oz. 20c; lb. $2.50. These are handsome, for pickles and preserves. They are immense bearers, and of good quality. About the size of hickory nuts.

TURNIP.

We have tested some of these which are advertised in the different seed catalogues; and while we find them some earlier than the staple turnips, they are, so far as we have tested them, inferior in quality, very strong in taste, and sometimes bitter.

Yellow Aberdeen. Oz. 5c; lb. 40c. Very early and handsome, as well as quite early, and fine quality. In 1890 they sold for 10c more a peck than the Purple-top globe.

Yellow Globe. Oz. 5c; lb. 40c. Very early and handsome, as well as quite early, and fine quality. In 1890 they sold for 10c more a peck than the Purple-top globe.

VEGETABLE PLANTS.

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

PRICES AND VARIETIES.

ASPARAGUS ROOTS.

HENDERSON’S PALMETTO roots, 2 yrs. old, 10c for 10; 75c per 100; $8.00 per 1000.

HORSERADISH ROOTS.

Price 25c, 10c; 100, 25c; 1000, $2.00. By mail, 25c per 100 extra.

Hors eradish is best propagated from pieces of root 2 to 4 inches long; these should be put in ground at an angle of about 45 degrees, and deep enough so that the tip of the cutting will be about 1 foot of space each way, and it is a good plan to put them in good, well-drained ground. The plant will not be disturbed as, when once started, they will take care of themselves, and occupy all the territory you will allow them to. As soon as the weather begins to warm, the plants will be ready to be set in ordinary soil, and will object to a very wet place.

CABBAGE-PLANTS.

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

SELECT VERY EARLY JERSEY WAKEFIELD, HENDERSON’S EARLY SUMMER, 5c per 10; 100, 40c; 1000, $2.10; 10,000, $25.00. During May, June, and July, EXCELSIOR FLAT BUTTER, FULTON’S BROUGHLAND, prices same as above.

WEEDS YOUNG CABBAGE PLANTS, 5c per 10; 100, 30c; 1000, $2.50. Extra strong 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 plants.

COLD-FRAME CABBAGE-PLANTS.

When we have these they will be double the price of the greenhouse plants. 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, $6.00 per 1000. These will be ready in March, April, May, and June.

Our cabbage, cauliflower, tomato, and celery plants are transplanted once, then we wait for them to make good, strong runners. We keep in stock only those plants which we are getting ready for seed-bed without transplanting. All of the above, except sweet-potato and onion plants, will be ½ price if taken from seed bed.

STRAWBERRIES.

With the multitude of new and exceedingly good berries before us at the present date, it is a very hard matter to make a selection of only a few kinds; but, as with garden seeds, I can not consent to cumber myself nor my patrons with a long list of varieties. I am testing most of the new kinds, and I may, perhaps, change my list somewhat from time to time, but for the present, we are sending off our order for spring planting, only JESSIE, PARKER EARLE, STERLING, BUBACH, and HAVERINGLAND. The last three are patillate, therefore you need at least ¼ of the number of Jessies to put among them—or, say, every third row Jessie. We prefer the Jessie for a fertiliser, because it has such a long season and such an abundance of blossoms. The Bubuch furnishes large berries in great abundance; but during a wet season they are liable to rot, as they are pretty soft. The Parker Earle is a large, handsome, very late berry. The Haverland is the most wonderfully productive of any of the others, and the pure Earle shall go ahead. The Sterling is T. H. Terry’s favorite berry. They’re fine dark color, good, handsome, rather tart, but stand frost remarkably well. Our prices are, 1½ cts. for 10 plants; 75 cts. per 100, or $6.00 per 100. It wanted by mail, add 5 cts. for 10, or 25 cts. per 100, for postage. To Canada, double the foregoing. We can furnish strawberries from March till November, inclusive.
A. I. ROOT'S SEED AND PLANT CATALOGUE FOR 1893. 5

SEEDS OF HONEY-PLANTS.

I have for years had dreams of a honey farm, with acres of flowers of different colors, blooming at different seasons, and keeping the bees away from the stores and groceries when we have a dry spell in the fall. The dream has been partially realized with the Simpson honey-plant, Mollié O. Lamarc, which bears honey every year, but, to my regret, no store or honey is produced. To me this is more important than a store of honey alone. Mignonette, catnip, motherwort, borage, melilot, and some others, I have tested, but I am quite sure that none of them have ever paid, just for the honey.

We first give a list of the plants that not only yield honey, but are profitable crops for their other products. There is no hurry to sell a bushel of buckwheat, and, let me assure you, one may be as easily furnished the seed free, or (where it is expensive) part of the price of the seed. As an illustration: We have for years been in the habit of furnishing buckwheat seed free of charge to any one who will sow it within a mile and a half of our apiary. Alsike, white Dutch clover, and Mammoth (or Peavine) we furnish at half the usual price. Now, then, friends, which is the most important honey-bearing plant, generally speaking in the world? I am inclined to think that basswood (or linden) bears the lead, because the honey is considered the most delicious and fragrant flavor; in the honey-markets it usually sells for one cent per pound less than clover. We, however, put basswood first.

Basswood-trees. Per 10 Per 100
One foot and under, each .05 .30 .2 00
One foot, 12 to 15, each .06 .30 .40
One to five feet, .10 .55 5 00
We also have some fine tulip or whiteow trees of the same age and prices.
Five to ten feet, .15 1.25 10 00
Ten to fifteen feet, .25 2.00 15 00
There is a great demand for these trees, and we have sold out the stock that we had, and several requests have been made for them. We think it would be more profitable to furnish the seed; they are also required for shade-trees, and at the same time furnish honey. The bee-keeper can also usually arrange so as to get them free for shade-trees, and at the same time furnish honey. The bee-keeper can also usually arrange so as to get them free for shade-trees, and at the same time furnish honey. The bee-keeper can also usually arrange so as to get them free for shade-trees, and at the same time furnish honey. The bee-keeper can also usually arrange so as to get them free for shade-trees, and at the same time furnish honey.

White Dutch Clover. Bushel, $2.00; % bu., 50 cts.; 1 lb., 30 cts.; 1 oz. or under, 5 cts.
Peavine, or Mammoth Red Clover. Bush. $9; % bush., $5.00; peck, $3.00.
Alsike Clover. One ounce, by mail, 5 cts.; 1 lb., by mail, postpaid, 30 cts.; by express or freight, 1 lb., 30 cts.; 1 peck, $2.50; % bush., $1.50; bushel, $10.00.

This furnishes not only the best honey of any plant in the world, but also has other valuable characteristics. It is the plant for trec for cattle, whether hay or pasture, is probably the most prolific honey-yielding plant in the world. It can be sown almost any time, but perhaps gives best results for seed, when sown in April or May. About 4 lbs. are required per acre, and it does not blossom much until the second year. Its treatment and cultivation are much the same as for common red clover, but the seed is saved from the first crop. We know our seed to be fresh, and free from weeds.

Rape. Oz. 5 cts.; lb. 10 cts.; 10 lbs. or over, 7½ cts. per lb.; 100 lbs., $8.00. By mail, 9 cts. per lb. extra. Where it is grown for clover second.

Borage. Oz. 10 cts.; lb. 75 cts.; if wanted by mail, add 10 cts. per lb. extra.

Figwort, or Simpson Honey-plant. Oz. 20 cts.; % oz. or under, 5 cts.; 1 lb. or over, 10 cts.; by mail, extra.

This has been very much talked about, and we have record of a few experiments that have succeeded in the Eastern States. In dry seasons it does not blossom much earlier than July. It is sown like turnips, and about 3 lbs. of seed is enough to cover an acre. The yield is not nearly so good as other varieties, the former being early and the latter late, and in very dry seasons it fails. In this respect, however, it is superior to the other varieties.

The above are the only plants I know of that can be profitably grown by the bee-keeper: that is, the honey they yield would probably pay, in connection with the profit on the plant for other purposes.

The following plants yield honey, and many of them in very considerable quantities; but none of them are so used for other purposes that there is little inducement to raise them by the acre; and let us bear in mind that it must take acres of any plant to yield honey enough to amount to any thing.

Bee Balm, or Melissa. Oz. 6c; lb. $2.00.

For further description, see GARDENING for November, 1893.

Borage. Oz. 10c; lb. 75c; if wanted by mail, add 10c per lb. extra.

A strong, 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 branches out considerably, it should have plenty of room. I know that bees are very busy on it, all the day long, from July until Nov., but I do not know how much honey an acre of it would furnish. It is easily sown, and does not require special treatment, I think our friends will be much better satisfied to try little trees.

Buckwheat, Japanese. Trial packet, 4 ounces; oz. 50 cts.; lb. 10c; 10 lbs. or over, 7½ cts.

This is a queer tall weed that grows in fields and woods, and after that Shoots up from the root every year, but needs planting anew about every three years. These seed sometimes lies in the ground many months before germinating. If mailed to purchasers a little circular in regard to its cultivation.

C貓nip. Oz. 10c; lb. 15c; if wanted by mail, add 10c per lb. extra.

I presume everybody can get catnip seeds and roots without buying them, but for all that, I have much faith in an acre of cultivated catnip. French thick-leaved is superior for bees, and by our bees take to our "patch of it," I think it must be superior for honey.

Figwort, or Simpson Honey-plant. Oz. 20c; lb. 3c; by mail, 10c per lb. extra, for postage.

This is a queer tall seed that grows in fields and woods and bears little cups full of honey. It bears honey all the day long from June till the frost. Very hardy perennial: first year, and after that shoots up from the root every year, but needs planting anew about every three years. This is the kind sometimes lies in the ground many months before germinating. If mailed to purchasers, a little circular in regard to its cultivation.

Honey Pea. Per bu. 1½ cts.; half-bu. 1½; peck, 90 cts., pack, 45 cts., 10 lbs., by mail extra.

Bu weighs about 60 lbs.

This is the celebrated honey-plant of Texas. It is a plant of the South, and often yields much honey. It is also used for food.

Horsemint. Oz. 2c; lb. 7½; Postage 1c per lb. extra.

The celebrated honey-plant of Texas.

Lippia Nodiflora. Oz. 1½.

For description see Dec., 1893, GARDENING. Given as bees' honey.

Motherwort. Prices same as for catnip.
A BOX OF WHITE-PLUME

TRANSPALANTING-BOXES FOR SEEDLINGS.

To give drainage and strength, we have the bottom made of slats only three or four inches wide, and only \( \frac{1}{4} \) inch thick. They are nailed side by side, so as to be strong enough if put on lengthwise of the box. The sides of the box are \( \frac{1}{2} \) inch thick. They are nailed on crosswise, probably the best method. All of the materials are printed on, and it is nailed side by side, so as to give a square rod of ground nicely. You can have the square rod laid out in artistic beds and walks, if you choose.

EMPTFY SEED-BOX FOR EARLY PLANTS.

A BOX OF WHITE-PLUME CELERY-PLANTS AS IT APPEARS WHEN FIRST TRANSPLANTED.
Moss for Packing Plants and Starting Seeds.

By taking a very large stock we are enabled to offer the nicest moss we have ever got hold of, at the extremely low price of $0.05 per bushel. This is packed in two half-hundred bushel boxes that would cost you 10 cents, leaving the moss only 5c, or we will send you a pound postpaid for 25. This is ready to use for packing purposes, but if you want to use it for sowing seeds you must get it real dry, so the fibers are brittle and will break fine, either by siftng it or rubbing it between the hands. We can furnish it all nicely sifted ready for use for 90c per quart. You can often save several times the cost of a quart in starting a single packet of celery seed.

Transplanting Tubes.

We use these particularly for putting out strawberry plants in very dry weather; but they may be used for any sort of vegetable plants. By their use I can put out a thousand strawberry plants and not have one fail; and I will do it during the very dryest time in July and August. Where it is necessary to get as many plants as possible of some choice variety, these tubes are a very great help. Set them over the plants, place your foot on top of the tube, and crowd it down into the ground about half its depth. Lift it up—plant, earth, and all; throw it into the wheelbarrow, then wheel them to your newly prepared ground. Set the plants down just a little deeper than they stood originally. When this is done, fill each tube with water; and, as soon as the water has soaked down so as to make the soil around the plant like soft mud, gently slip the tube off. Lift the leaves up and put a mulch of soft earth around the plants, being careful not to cover the crown, and your plant will often grow better than it did before you moved it. Price of these tubes: 25 cts per 10; $1.25 per 100; $12.00 per 1000. If shipped before the seam is locked together, they will pack in much less compass. In this shape we ship them for any sort of vegetable plants, cucumbers, or squashes, or other large plants, for $2.00 per 100, or $15.00 per 1000. If shipped in the flat, 10 cts. each; 85 cts. for 10; $7.50 per 100. Glass to match, $2.50 per box.

Pyrethrum Roseum. (Persian Insect-Powder.)

This is not only a pretty plant for the flower garden, but the flowers gathered and dried when in full bloom, and then finely powdered, furnish us the Persian insect-powder, of which so much has been said. With it has been the thing to kill all sorts small insects, laying them out dead in a few minutes, of any thing we have ever got hold of. It is not at all poisonous or injurious to human beings.

Price of the seeds, one packet, 5 cts.; one ounce, 4 cts.; 1 lb., $5.00. By pail, 18¢ per lb. extra on powder, and 8¢ on the pail.

Wood Wire. The Bug-Protector, and How to Make it.

After the season of frost is passed, we prefer, for a bug protector, the wire-cloth basket shown above. They are made of pieces of wire-cloth 14 inches square, and the wooden form on the left of the cut shows how they are made. We can furnish these made up, for 5 cts. each; 8 cts. for 10; $4.50 per 100. Smaller sizes, for single plants, 4 cts. each; 38 cts. for 10; or $3.50 per 100. Small ones can be sent by mail in lots of 10, at 25 cts. for postage on the 10.

Paper Seed-Bags.

Large size, to hold ounces, $1.50 per 1000, or 20 cts. per 100. Medium size, to hold ordinary packets, $1.35 per 1000, or 18 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, 5, 8, and 10 cts. per 100 respectively. The same printed to order (not to exceed 50 words), 25 cts. per 100, or $1.00 per 1000.

Insect-Powder Bellows: Price $1.00; size 6x18 inches.

With the above instrument you can kill every fly in any room of the house within an hour. Of course, the doors and windows of the room should all be closed. In painting new houses in the summer time, when flies are troublesome, the instrument is worth more than it costs, for this alone. It is not at all poisonous or injurious to human beings.

Price of the powder, all ready for use, one ounce, 3 cts.; 1/2 lb., 10 cts.; 1 lb., 30 cts.; 10 lbs., $4.25. Price of the powder, one pound, $1.35; 10 lbs., $15.00; 100 lbs., $30.00; 1 Ib., 55¢. By mail, 18¢ per lb. extra on powder, and 8¢ on the pail.

Insect-Powder: Price $1.00; size 6x18 inches.

With the above instrument you can kill every fly in any room of the house, within an hour. Of course, the doors and windows of the room should all be closed. In painting new houses in the summer time, when flies are troublesome, the instrument is worth more than it costs, for this alone. It is not at all poisonous or injurious to human beings.

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POTTY-BULL
For setting glass for greenhouses, for repairing sash, etc. This is a rubber bulb, with nozzle, for running liquid putty along the glass or sash. The bulb holds a half dozen sash should be without one. Full instructions for putting in place included. Each large bulb costs 15 cts., with each small bulb costs 5 cts. The arrangement above makes the nicest kind of powder-gum footing. Glass is set in the sash by this. In ordering, please state which purpose you wish it for. Price 15 cts.; postage 5 cts.

GOODS ESPECIALLY FOR POULTRY RAISERS.
PURE BONE MEAL.
Coarsely ground, expressly for poultry. Per lb., 5 cts.; 5 lbs., 25 cts.; 10 lbs., 40 cts. by mail, 5 cts.; 10 lbs., 25 cts. by express or mail, 4 cts.; 50 lbs., 2 cts. by express or mail, 10 cts.; postage 5 cts.

Along where the glass lies in the sash. No person who has half a dozen sash should be without one. Full instructions for putting in place included.

NEST-EGGS polished wood, each 2c; 10, 15c; 50, $1.25; Postage 3c each.

Books on Gardening, Farming, &c.
Figures on the left hand indicate amount of postage to be added when books are to be sent by mail.

I have indicated my opinion of the books by characters as follows: Books that I approve I have marked with *; those I especially approve, **. The following is my appreciation of the books subsequently to the present date.

5 | Tile Drainage, by W. L. Chamberlain... 35
Every thing of importance clear up to the present date. The single chapter on digging ditches, with the illustrations given, I think should alone make the book worth what it costs, to every one who has occasion to lay ten rods of tile. This book is as much scientific digging as in doing any thing else; and by following the plan described by Mr. Chamberlain, any one can dig without men without this knowledge. The book embraces every thing connected with ditches and tile, and the style is good, while he was engaged in the work of digging the ditches and laying the tiles. He has laid literally miles of tile on his own farm in Hudson, O.

5 | Tomato Culture... 35
In three parts. Part first—by J. W. Day, of Crystal Springs, Miss. Treats of tomato culture in the South, especially for canning-factories. Part third—by A. I. Root, of Medina, O., treats of plant-growing for market, and high pressure gardening in general. This little book is interesting because it is one of the first rural books to come from our friends in the South. It tells of a great industry that has been steadily growing for some years, and growing in the South, to supply the Northern markets. The book is fully illustrated, giving us some pleasant glimpses of the possibilities of the industry. Even though you do not grow tomatoes to any considerable extent, it is a very valuable book. The book is full of useful hints in agriculture and horticulture, and especially in the line of our new vegetable crops.

5 | A B C of Potato Culture, Terry**... 35
This is T. B. Terry's first and most masterly work. The book has reached a second edition. It is written in forceful, familiar language. When we are thoroughly conversant with friend Terry, we shall all be ready to do almost any farm crop successfully. It has 48 pages and 23 illustrations.

5 | An Egg Farm, Stoddard**... 45
No matter whether you raise eggs on a large scale or a small scale, you can get a profit. This is a very valuable book. I do not know that I ever got hold of any piece of fig. ticism or crotchets from the writer, so that I feel honestly as if we should give our votes to this book, if we consider the advantages which a farmer can get by the cultivation of these vegetables. This is a very valuable book. It has 48 pages and 23 illustrations.

6 | Rats: How to Rid Farms and Buildings of them as well as other Pests of like Character... 45
This book is的价值 the worth following because of the fact that it costs to any one who has ever been troubled with these pests. The author is a naturalist, a very valuable book. I do not know that I ever got hold of any piece of fig. ticism or crotchets from the writer, so that I feel honestly as if we should give our votes to this book, if we consider the advantages which a farmer can get by the cultivation of these vegetables. This is a very valuable book. It has 48 pages and 23 illustrations.

5 | The Silo and Ensilage, by Prof. Cook, new edition, fully illustrated... 50
Three thousand copies of the first edition of this little book were sold in about eight months, and friend Cook has now got out a second edition. This book is fully illustrated with excellent engravings. The pictures are worth alone to me a dollar a copy. A thing of this kind is only fully explained. All recent inventions in apparatus, and methods of making this delicious product of the farm, are fully explained.

5 | Maple Sugar and the Sugar-bush, by Prof. A. I. Root, is, at the present time, creating an enormous sale, and has been reprinted in foreign countries.

6 | Gregory on Onions; paper... 60
This is Joseph Harris' best and happiest effort. Although it goes over ground that has been occupied by many others, it invariably emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

6 | Gardening and Farming for Pleasure, Henderson... 75
This is T. Greiner. This is a new book, just out, and it gives the most exact and valuable explanation of the various branches of agriculture, more particularly emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

5 | How to Make the Garden Pay**... 80
By T. Greiner. This is a new book, just out, and it gives the most exact and valuable explanation of the various branches of agriculture, more particularly emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

5 | Gregory on Cabbages; paper... 85
The author is a naturalist. This is Joseph Harris' best and happiest effort. Although it goes over ground that has been occupied by many others, it invariably emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

5 | Gregory on Squashes; paper... 90

5 | Gregory on Onions; paper... 95

5 | Gardening for Young and Old, Harris**... 100
This is Joseph Harris' best and happiest effort. Although it goes over ground that has been occupied by many others, it invariably emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

5 | Gregory on Cabbages; paper... 105
The author is a naturalist. This is Joseph Harris' best and happiest effort. Although it goes over ground that has been occupied by many others, it invariably emphasizes thorough cultivation of the soil in preparing your ground, and this book adapts it to young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 187 pages and 142 cuts.

5 | Money in the Garden, Quinn... 110

5 | The New Onion Culture... 115
This book is by T. Greiner, and it gives full particulars of the plant-growing, and seed-growing, and cold frame, and planting the onions out in the field at the proper time. We believe that this book will pay you to make them a present of the book. It has 115 pages and 142 cuts.

5 | The New Onion Culture... 120
This book is by T. Greiner, and it gives full particulars of the plant-growing, and seed-growing, and cold frame, and planting the onions out in the field at the proper time. We believe that this book will pay you to make them a present of the book. It has 115 pages and 142 cuts.

5 | Irrigation for the Farm, Garden, and Orchard, Stewart... 130
This book, so far as I am informed, is almost the only work on this matter that is attracting so much interest, especially among young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. This book has 130 pages and 142 cuts.

5 | A B C of Strawberry Culture... 140
The above three books, by our friend Gregory, are all valuable. The book on squashes especially is good reading for the young people as well as to old is brought out in a most happy vein. If your children have any sort of taste for gardening it will pay you to make them a present of the book. It has 115 pages and 142 cuts.

5 | Money in the Garden, Quinn... 150

5 | The New Agriculture, or the Waters Led... 155