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Do not assume content reflects current scientific knowledge, policies, or practices.
ASPARAGUS.
Asparagus, Palmetto. Oz. 5c; lb. $0.75.
We have given this new variety a trial beside the Colossal, and it is certainly a stronger and more robust plant as it grows.
Asparagus Roots. 2 years old. Palmetto, 10 for 10c; 1 lb. per 100; $5.00 per 1000. By mail, add $0.50 for 1 lb., or $1.00 per 100.

BUSH BEANS.
Henderson's New Bush Lima Bean. ½ pt. 50c;qt. 60c; peck $2.50.
In our catalogue for 1889 we pronounced the this the most important novelty for pod. It is a genuine bush lima bean, only that it is much smaller than the pole lima, but in every other respect, however, it is fully equal to the pole limas, and is certainly a valuable acquisition to many who cannot well go to the time and expense of providing poles. It is exceedingly prolific, each stalk or stem bearing from 50 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 25c. per pint last summer, month after month.

Kiddie Wax. Pt. 15c; pk. $1.75.
This is an improvement on the ordinary Golden Wax Bean in giving us larger pods, more perfectly free from rust. We consider it quite an acquisition.

White Kidney, Large. Pt. 10c; pk. $1.00. Bu. $3.75.
One of the best to use shell, when green or ripe. We sell起步 of these at 10c a pint, shell green. We market them in new flat strawberry boxes.

York State Marrow. The best field bean. Pint, 10c; peck, $1.00; bushel, $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. We consider it an acquisition. Price, ½ pt. 15c; qt. 50c; peck $3.00.

King of the Garden Lima. ½ pt. 15c; qt. 45c; peck, $2.50.
These are fully as good as the common lima, and the pods are considerably larger, saving time in picking and shelling, as well as increasing the yield. We get 10 cents per pint for these, when green, shell. See White Kidney bean above.

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

Asparagus seeds, Palmetto, 10c; bushels, 100c; and seeds, in any quantity are furnished to order. All of our beans will be furnished in 5-cent packages; but where they are to be sold, we shall not pay the postage in the 5-cent packages. This will be noticed with the Bush Lima Bean and Snowball Cauliflowers, etc. Now, these 5-cent papers are all sent by mail postpaid; but when you order seeds by THE OZ., or lb., allow postage thus: 5 cents per pound; 5 cents per half pound; 1 cent per ounce. Peas and beans by the pint and quart, must also have 8c per pint, or 15c per quart, added for postage; on corn, add 10c per qt. for postage. One fourth oz., lb., or peck will be sold at oz., lb., or peck rates.

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

All of our beans will be furnished in 5-cent packages; but where they are to be sold, we shall not pay the postage in the 5-cent packages. This will be noticed with the Bush Lima Bean and Snowball Cauliflowers, etc. Now, these 5-cent papers are all sent by mail postpaid; but when you order seeds by THE OZ., or lb., allow postage thus: 5 cents per pound; 5 cents per half pound; 1 cent per ounce. Peas and beans by the pint and quart, must also have 8c per pint, or 15c per quart, added for postage; on corn, add 10c per qt. for postage. One fourth oz., lb., or peck will be sold at oz., lb., or peck rates.

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 bulb 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 exceed outrageously hardy.

LANCE'S Improved Sugar. Oz. 5c; ½ lb. 10c; lb. 30c; 5 lbs. $1.50.
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. Has yielded as high as 20 tons to the acre.

Long Red Mangel. Oz. 5c; ½ lb. 10c; lb. 30c; 10 lbs. $2.50.

Yields enormously, but not so sweet as Lance's improved. Seed is of our own raising, from selected roots.

CABBAGE.

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

Our cabbage seed this year is raised by A. P. Meech, Fidlarco Bay, near Puget Sound, Washington Territory. Thousands of sample packages were sent out by us in 1890, 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 50c 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.

Photeller's Brunswick. Oz. 20c; lb. $2.50.

This is one of the old staple varieties, and is perhaps planted as extensively as any variety, from midsummer to late cabbage. Statically, a long time without blight. Our seed was raised by H. A. March, the same as the Early Jersey Wakefield, and our entire stock is rock seed; that
is, it is from the very best heads that could be selected out of a field of several acres.

**Excelsior Flat Dutch.** Oz. 15c; lb. $3.00.

This is the best Late Radish. During the past season this has given the finest heads of LATE CARROTS.

**Perfection Drumhead Savoy.** Oz. 15c; lb. $2.00.

The Savoy cabbage is handsome in appearance, and richer and more compact than any of the other varieties. In taste it nearly approaches the cauliflowers.

**Large Red Drumhead.** Oz. 15c; lb. $2.00.

This is a red cabbage for pickling. The bright red, by way of contrast makes a good lot of color for sale, attracts attention, and there is always more or less demand for red cabbages for pickles. Heads are very solid, and valued for drk.

**Orange Danvers, Half-Long.** Oz. 5c; lb. 60c.

Yields well, and is easy to direct. The best sort known.

**CAULIFLOWER.**

**Henderson's Early Snowball.** Raised by H. A. March, 35c; lb. 40c; oz. 10c; $1.35.

Nice specimens of early cauliflower often bring extravagant prices, and it pays well to start them in the greenhouse, and later to transfer to the open ground before the hot weather comes on.

**CELERY.**

**Henderson's White Plume.** Oz. 30c; lb. $2.50.

We place this at the head of the list, and especially for early crops, where we have the past season's stock on hand, as the idea comes on the market in July, and it sold readily at like each. The seed was started in the greenhouse about the middle of January. On account of its self-bleaching qualities it is better suited for early crops, but compact and mild in flavor.


This is a self-bleaching variety in all others we have seen, in being not only more dwarf—i.e., shorter, but it is also thicker; in fact, the plant, when fully matured, is so thick and dense, as to create surprise. The variety is also excellent, and the labor of preparing it for market is not nearly so much as that of the White Plume. It is rather an early celery, and should be used for early markets and successive crops.

**New Rose.** Oz. 15c; lb. $2.00.

Our verdict is, that it is not only the hardiest and best growing of the whole celery family, but, when properly bleached by being put away for winter, it has given us the finest and most delicious and crisp celery ever grown. Although, it is a red celery when growing, when fully bleached there is hardly a trace of the red color, but it is a beautiful creamy white. We place it at the head of every thing else for a Late Winter celery.

**Dwarf Golden Heart.** Oz. 15c; lb. $2.00.

One of the standard sorts for a later crop. The golden that of the Green Heart, but very hardy and a good vegetable.

**CORN (FOR TABLE USE).**

**Cory's Extra Early.**

Cory's has not only proved to be the earliest by ten days, but the ears are much longer, broader and larger, hence it might not be suitable for market; but, if it is bleached, it will make a good table corn.

**Shoepeg.** Half pint, 100c; qt. 25c; pk., $1.25; bu. $4.50.

Here is what the Ohio Experiment Station says in regard to it:

This is the same thing as the Ne Plus Ultra, or Banana. It is the most meaty and delicious corn that I ever tasted. The ears are large, hence, it might not be suitable for market; but, if it is bleached, it will make a good table corn. We have tested all the new varieties that have been recommended. Our trial has been very large in this kind of corn for eight or ten years past.

**CORN SALAD.**

Oz. 5c; lb. 60c.

Some people call Lamb's Lettuce. It is to me a most delicious salad, something like lettuce, but having a peculiar rich flavor. We never mix this with the other herbs, as it is hardy, and will often stand out all winter. It does splendidly in greenhouses and cold-frames, is not attacked by the GREENFly.

**CREASES OR DANDELION (Odd Grass).**

Extra Curled. Oz. 5c; lb. 50c.

**CUCUMBER.**

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

The earliest cucumber.

**Hawsor's Improved Early White Spine.** Oz. 25c; lb. $8.50.

This is an especially good variety for raising in the greenhouse, and the cucumbers being 30 to 40 cents each, even where they are sold here, are much in demand. They are perfectly handsome and taking, and they sometimes grow to a great size without getting yellow.

**Nichols Medium Green.** Oz. 5c; lb. 60c.

**KOHLRAUSCH.**

**White Vienna.** Oz. 10c; lb. $1.25.

This is a quick-growing, vegetable, half way between turnip and cabbage. If the plants are started in the greenhouse, the vegetable may be put on the market at the same time with the very earliest cabbages; and where people once get a taste of it, it is pretty sure to meet with a rapid sale at good prices.

**LETTUCE.**

**Grand Rapids Lettuce.** Oz. 10c; ounce 25c; pound, 25c; 5 lbs., $1.00. This seed is of our own raising.

This is a new variety, developed in the vicinity of Grand Rapids, specially for greenhouse culture. It has been developed by Henderson & Co., and named after the city. It was raised by selecting the plants of the finest lettuce to be found in the neighborhood of Grand Rapids, Mich. For further particulars, see our note dated April 20th, 1890. It is also a splendid lettuce for outdoor culture.

**Boston Market** (or White-seeded Tennis-ball). Oz. 5c; lb. 50c.

The best variety of head lettuce for greenhouse culture, as the plants are hardy and compact, keeping the heads firm, and producing a very good quality.

**Landreth's Forcing.** Oz. 15c; lb. $2.50.

Extra early sorts and cold-frame lettuce, exceedingly early. The heads are smaller than Boston Market.

**Henderson's New York.** Oz. 10c; lb. $1.00.

We consider this the best lettuce for outdoor culture known. Even the chickens have discovered that it is of superior quality, and the cost of raising and saving for the market has been increased by 50%.

**MELONS, MUSK.**

**Casaba, or Persian Musk.** Oz. 5c; lb. 60c.

A standard large variety, of fair size. Last season we had specimens that I call the best melon I ever tasted.

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

Always profitable because of its extreme earliness.

**Banana.** Oz. 5c; lb. 60c.

I consider this one of the best muskmelons it has been my fortune to taste. They are long like a rail, or like a banana if you please; sweet, but not heavy, and when cut open, you will find ample of this variety.

**EMERALD GEM.** Oz. 5c; lb. 60c.

This is a small one, say from 1½ to 2 lbs. The skin is of a deep canary yellow, and the flesh is of a beautiful light golden yellow. It is a most delicious. My way is to eat it with a spoon, scraping the melon from its skin and then the rind. Of course, they want to be well ripened. I believe I should call it one of the most delicious of all melons.

**Miller's Cream, or Osage.** Oz. 10c; lb. $0.75.

We have been testing this for three years past. While the quality, perhaps, is not greater than others, there it certainly excels in yield. The fruit is very thick, with a beautiful salmon color. The melons are dark green, and never turn yellow. When they are ripe, the skin will pull off of itself. We gather them for market, however, when they separate easily from the vine. It is certainly an acquisition.

**MELONS, WATER.**

Phinney's Early. Oz. 5c; lb. 60c.

The earlier is good, but the size is not very large.

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

A melon that seems to combine more of the good qualities for a large late watermelon and the smaller kinds.

**ONION.**

**Mammoth Silver King Onion.** Pkt., 5c; oz., 25c; lb., 80c.

We first procured this seed from William Henry Maule. The onion is of the onion family, and is grown in the greenhouses. When about two inches high they are planted out as you would plant out cabbage or celery. During August and after, we have onions large and small, large for the table, and small for pickling, and as we sell them by the pound, many of them being 2½ to 3½ pounds. We regard them as an acquisition.

**Silverskin, or White Portugal.** Oz. 25c; lb. $2.00.

A standard variety for pickles, or for small bunch onions. Better flavored than the dark-skinned.

**Yellow Danvers.** Oz. 15c; lb. $1.75; 5 lbs., $1.30 per lb.; 10 lbs., $1.40.

A standard yellow variety. The best of all to grow from...

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**PRICE 5 CENTS PER PAPER; 10 PAPERS, 40 CENTS; 100 PAPERS, $3.00.**
need. It makes a wonderful difference, however, how the seed is grown. Some strains will give nearly as good a crop as that others will. Our seed for this year was grown by a near relative of Mr. C. H. J. of the Experiment Station, Columbus, Ohio.

Early Ohio. The Experiment Station, Columbus, O., says theirs is no better.

Early Puritan. Nearly as early as Early Ohio, and much more productive. Highly recommended by our Ohio Experiment Station.

Lee's Favorite. This is a few days later than the foregoing, but yields better still. In our last year's catalog we gave it for 10 bushels, from one-fourth of an acre.

Beauty of Hebron. This is preferred by some, because it gives as good, or better yield than any other, and comes off early enough to admit of getting in wheat in most of the time. It is a standard early sort.

Monroe Seedling. Here is T. R. Terry says in regard to them: The last season we had more perfect picking in a bucket than I think I ever saw in any other variety of potatoes. They are strong growers, and do not sprout early; better quality than most late potatoes. I have returned 14 orders in one day this year (were all sold). T. R. Terry, Hudson, O., Oct. 22, 1899.

POTATOES.

Prices of any of the above varieties by mail postpaid, 15c for 10, or $1.00 per 100.

PUMPKIN.

Early Sugar Pumpkin. Oz. 5c; lb. 90c.

This was selected from two different kinds of pumpkins. They are specially designed for the first pumpkin pies of the season. Our strain of seed has been in the fields hereford over two years. Last fall we had, however, a patch of many hundreds without a single large pumpkin in the lot. This year we have a lot of earlier than the ordinary pumpkin, sweeter for pies, and so small in size that we sold them in the long in the fall, at the rate of two for a nickel. In many places people will pay more for early pumpkins for pies than they will for any kind of squashes.

Connecticut Field. Oz. 10c; lb. 40c.

Matt's Victoria. Oz. 10c; lb. 1.50.

RADISHES.

Early Scarlet Globe. Oz. 5c; oz. 5c; lb. 50c.

This is the radish that Vicky gives such a beautiful bloom of in his catalogue for 1899, and for forcing 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. 5c; lb. 50c.

The very best large radish for raising under glass, or for extra early.

Beckert's Charter Radish. Oz. 5c; lb. 40c.

A novelty, and one that has been given us in the highest satisfac-
tion; of rapid growth and good size both, at the bottom and top. In favorable soil it will grow to a large size, and still be excellent in quality. They are remarkably certain to make a good bolt.

Chinese Rose Winter. Oz. 5c; lb. 50c.

These not only stand the weather until Christmas, but we consider them really the most deliciious radish, and the most free from bringing up in the spring. They are not as strong as radishes ordinarily are, but are of a sweet turnip flavor. Usually sown at the time we sow turnips.

SALISFY, OR OYSTER PLANT.

New Mammoth. From Sandwich Islands. Oz. 10c; lb. $1.50.

We have grown this side by side with the common salify, and we find the roots larger, better shaped, and equally good in other respects; they are, therefore, without question an improvement. Finely grown specimens are almost as large and smooth as the common salify.

SPINACH.

Bloomdale Extra Curled. Oz. 5c; lb. 25c.

5 lbs. $1.00.

It combines as many of the good qualities as any other.

SQUASH.

SUMMER VARIETIES.

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

This squash is as early as the ordinary crooknecks, and in every way equal to, and perhaps a little superior to such sorts, as well as will make a dinner, even when soft and tender; and one good thirsty plant will almost supply a family.

WINTER VARIETIES.

Hubbard. Oz. 5c; lb. 60c.

Too well known to need description. We have tried nearly all the new squashes, but have not yet found a better one.

TOMATO.

Golden Queen Tomato. Pkt. 5c; oz. 5c; lb. 1.00.
Those are our great specialties, and we are prepared to furnish cabbage and lettuce plants from the first of April 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

**ASPARAGUS PLANTS.**

HENDERSON’S PALMIZE PLANTS, 2 yrs., old, 10c for 10; 75c per 100, or $5.00 per 1000.

**CABBAGE-PLANTS.**

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

SELECT VERY EARLY JERSEY WAREFIELD. HENDERSON’S EARLY SUMMER, 5c per 10; 100, 40c; 1000, $5.00; 10,000, $50.00. Durian, May, June, and July, EXCELSIOR FLAT DUTCH, POTTER’S BREDWICK, prices same as above.

PERFECTION DUODA CABBAGE, and LARGE RED DUODA ready in May, June, and July, 5c per 10; 100, 40c, or $5.50 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 coldframe cabbage-plants; viz., extra selected JERSEY WAREFIELD.

**CAULIFLOWER.**

We have confined our attention to the one kind—HENDERSON’S EARLY SNOWBALL. Price of plants, 10c for 10; 50c per 100, $6.00 per 1000. These will be ready in March, April, May, and June.

**LETTUCE-PLANTS.**

We can furnish BOSTON MARKET, GRAND RAPIDS. Any of the above plants will be taken directly at all, at half the above prices.

**SWEET POTATO PLANTS.**

Prices, 5 cts. per 10; 40 cts. per 100; $2.50 per 1000.

**TOMATO-PLANTS.**

These will be ready from April first till August first. We furnish the following varieties, which are grown all winter, and, best of all, it has a good-sized bulb (of fair quality) that winters over as completely as a parsnip.

**CELERY-PLANTS.**

We keep in stock HENDERSON’S WHITE PLUME, GOLDEN DWARF, GOLDEN SELF-BANCHING, and SPANISH PEPPER. The price will be 10c for 10; $1.25 per 100, or $12.00 per 1000.

**SWEET-POTATO PLANTS.**

Same price as celery-plants; ready May 1st.

We can send plants by mail if enough is added to cover postage and packing, which will be 5c for 10, or 25c per 100.

**STRAWBERRIES.**

With the multitude of new and exceedingly good berries before us at the present day, 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 new kinds, and I may as well change the subject from time to time, but for the present we are decided to offer the following, planting only Jessie, Gandy, Sterling, Bubich, and Haverland. The two latter are piquette, therefore you need at least two families of these, as no single ones will do; very late, the best, and most wonderful productive of any berry I have ever seen at the present writing. The Sterling is T. H. Terry’s favorite berry. Their fine dark color, good shape, rather tart, but stand frost remarkably well. Our price for the 10 plants, 25 cts. per 10, or $2.50 per 100, inclusive. We can furnish strawberries from March till November, inclusive. As we shall raise them largely in plant-beds, with an abundance of water near by for irrigation, dry weather will make very little if any difference with our promptness in shipping.
**SEEDS OF HONEY-PLANTS**

I have for years had dreams of a honey farm, with acres of flowers of different colors, blooming as if the earth were a tapestry knotted from the stores above and woven away from the spell in the fall. The dream has been partially realized with the Simpson honey-plant, Melolio O.L. Large's spider plant, and the seven-top turnip, but I am pretty well satisfied it will not pay to cultivate these for honey. Bommerow, borage, and mammoth 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 can be no inducement for one to attempt to do the same by furnishing the seed tree, 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 would plant these plants. Alaske, white 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 blackwood (or linden) bears the largest amount of honey, and is considered quite equal to alfalfa, generally considered the best; for in the honey-markets it usually sells for one cent per pound and a half.

### Basswood-trees.

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One foot and under, each.

The above by mail, 30 cents.

One to five feet.

We also have some fine tulip or whitewood trees of the following sizes and prices:

**Five to ten feet.**

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<th>Ten to Twenty feet.</th>
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<tr>
<td>Twenty to Forty feet.</td>
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These will be taken directly from our nursery, and if planted out in the open ground, benefits are very sure to result. The following plants are raised in our garden, and May, and spring planting is preferable. For a description of these and full information as to how to cultivate them, see our garden catalog.

### Aliskoe Clover.

One ounce, by mail, 5 cents; 1 lb., 50 cents; 5 lb., $1.50; 10 lb., $3.00; freight to New York.

This differs little from the ordinary white clover. It has an advantage over aliskoe, inasmuch as it will setter its roots in the soil and furnish a continuous supply of green feed for the road sides, pastures, and all waste places.

### Pea, or Shaved Red Clover.

Bushel. 50 cents; ½ bu., 30 cents; per lb., 60 cents. These are celebrated for their honey-yield, and would probably pay, in connection with the profit on the plant for other purposes.

### Buckwheat, Japanese.

Trial packet, 4 ounces; semi-ripe, $1.00; bushel, $5.00; freight to New York.

As the Japanese have so far outstripped all other varieties that we have hept them entirely from the list. It makes a much stronger growth than the old kinds, gives a much larger yield of grain, and a little more the rye flavor, when the grain is thrashed. During the past season the yield has been so great as to put down the idea that good grain could not be grown in this section. We have a 3½ pound pug mash up to date, a collection of a dozen from different localities, representing various qualities of buckwheat, selling just how to raise buckwheat. Mailed for 50 cents, or given free to any one who will order it and send us a seed sample for inspection. This is one of the plants which will not be sent by mail, as the most choice varieties are not known by the trade.

### Alfalfa, or Lucerne.

Per bushel, $7.00; ½ bushel, $3.50; peck, $1.00; pound, 11 cents. By mail, 9 cents per peck.

This is the great honey-plant of Arizona, Idaho, California, and all the Southern and Western Territories. Where it is raised by irrigation in fields of a thousand acres or more, there is no need of advertising that honey flows all over the place, for it is known from long before by July to October. Very hardy, blooms first, and after that blooms all season, whatever the weather, being more than the value. If you want a peck, or half a bushel, write for freight terms, as we have ordered our stock, and unless you are willing to pay more than the seed is worth, we will not send it.
Mignonette. Oz. 10c; lb. $1; by mail, add 10c per lb.

This is a great favorite with the bees, and also with those who are raising plants for their bees; but although we have sold considerable of the seed, for bee pasture, I am not sure that any one has ever seen it pet in flowers and scented for the honey alone. 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 clean soil, and be covered thinly. This plant seems to have a rare capacity for standing frost, and bees may often be seen upon it clear into October.

**Mustard.** Common (either white or black), lb. 25c; oz. 10c. Add 10c per lb., if to be sent by mail.

The honey from this is said to be very light, equal to any in flavor, and to command the highest price in the market.

**Portulaca.** 50c per package.

This is a beautiful flower, say a rod square, will show more bees in the working season for the area, than any other plant I know of; furthermore, a bed of mixed portulacas, equivalent to a square rod, makes one of the handsomest, if not the handsomest of all flowers, and is of great benefit for improving 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 portulacas, especially when the seed is only 5 cents a paper. One paper will cover a square rod of ground nicely. You can have the square rod laid out in artistic beds and walks, if you choose.

**Rocky Mountain Bee-plant.** Creme integrifolia. Per lb. 10c; 1000 3c extra. This is closely connected with the so-called Spider-plant (C puniceum), two being the only species of the Cremea. 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.

**Sage, White.** (Salvia argentea). Oz. 3c; lb. 50c. A very fragrant, ornamental, and hardy herb, belonging to the Labiate family, the same as Rosemary, Balm, Hoarhound, etc.

**Sweet Clover.** (Melilotus albus, or Melilot). Per lb. 10 lbs. $1.50; 100 lbs. $12; if wanted by mail, add 10c per lb. This is sold with the hulls on the Bokhara is bullied.

This has some valuable traits, as standing frost and drought, but many times and seasons, the bees will hardly notice it at all. A bed of seed clover is a very valuable honey plant, as it is easily raised from seed. The honey in the seedling, the roots will soon die out. Soon in spring or fall. In the valley of Salt Lake City, the clover is considered as a honey plant; and the quality of the honey is equal. In my opinion, any honey in the world. The plant lives through the dry summers in Utah.

**Yellow Trefoil (Medicago lupulina).** A weed for pasture plant, in dry or sandy fields.

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

**Spring Vetchels or Tares (Vicia sativa).** A weed for pasture plant in sandy and clayey loams. Leguminous. Does not yield honey with us.

Any of the above seeds will be sent in 50 packages, to those who would like just a few to try.

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**MISCELLANEOUS IMPLEMENTS**

**TRANSPLANTING-BOXES FOR SEEDLINGS.**

**EMPTY SEED-BOX FOR EARLY PLANTS.**

To give drainage and strength, we have the bottom made of slats only three or four inches wide, and only 1/2 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 1/4 x 1/4 inch. These are very easy to carry about, and answer just as well or small plants. From one of these boxes, we, in the spring of 1886, got 7500 celery-plants. After the first few boxes were filled they were taken up and planted into similar boxes, as shown below:

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

**Bokhara Clover** is the same as the above.

**Coreuila. Bee-Clover.** Oz. 10c; lb. 50c; by mail, add 10c for bag and postage.

This latter blooms in about six weeks after sowing, and bears a small blue flower.

**Italian or Scarlet Clover (T. incarnatum).** Introduced from Italy, France. These flowers are almost as beautiful, much resembling a large luscious strawberry. Blossoms are round and about the same as sweet clover.

**Sunflower, Mammoth Russian.** Oz. 5c; lb. 50c; 10 lbs. or over, 50c; 100 lbs. 75c; if wanted by mail, add 10c for bag and postage.

This plant goes by great numbers in some localities, while in others it is scarcely noticed; but, as the seeds require no more expense of cultivation than other plants, it is the most economical of all the vegetables, as being a plant for a fence, the very best for that purpose; and if it is planted as such, it will be the most remunerative, as it is highly appreciated by the bees, and may be easily raised from seed.

**Spider Plant.** Package 5c; oz. 20c; $2. Postage 10c per lb. extra.

This plant, under favorable circumstances, yields more honey than any thing that ever before came under my observation. In Oct., 1879, each flower 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 half filled a bottle with it, for experiment. As it yields only 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 3 acres of each of these plants would keep 190 colonies busy enough to be out of mischief during a dry fall, when bees are apt to be lacking. For particulars concerning both, see A B of Bee Culture. The Spider plant is an annual, and should be sown every year. It grows most quickly with soaked treatment, but wilt blossom in August if sown in the open ground in May.

**Seven-top Turnip.** Oz. 10c; lb. 50c. If wanted by mail, 10c per lb. extra.

This plant, much too much equal to the Spider plant and the Simpson honey plant, is entitled to a place next to them, because it is more easily raised in the hands of every one, and blooms and blossom and clover. It should be sown in Aug. and Sept. It has no root, it is the ordinary turnip, but only foliage that is used for greens.

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**FOR GARDENERS, FARMERS, ETC.**

Price of seed-boxes, as shown, made complete, 10c each. Price of stuff in the flat, in lots of 10, 35c; 100 flats, $8.00.

You will observe that there are 10 rows of plants, and 50 plants in a row, so it took 500 boxes, with 500 plants each, to contain just what grew in one single seed-box.

**TRANSPLANTING-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 set in the center of each. After transplanting seedlings we put two in each mesh—a plant in each sharp corner. This spaces them properly, although close together, 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, 25 cents, for the above box, 50 cents.

We start cabbage, cauliflower, and celery plants, in the middle part of February; tomato-plants from the middle of June, and put in the other part. If weather is fine before the weather is suitable to set them out, shoveling and clearing away, and let them grow out again. This will have the effect of making a strong root.
THE AVERY TRANSPLANter.

Price 40c; by mail, 50c. When the soil is just wet enough, and not too wet, strawberries, vegetables, plants, etc., may be taken up with a ball of earth, like a strawberry-plant, and placed in freshly prepared fertile soil, without having the plant checked in its growth a single day.

PAPER SEED-BAGS.

Large size, to hold ounces, $1.50 per 100, or 20 cts. per 100. Medium size, to hold ordinary packets, $1.50 per 100, or 18 cts. per 100. Small size, for very, very, very small packages, $1.45 per 100, or $5.00 per 100. I 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 100.

LABELING STAKES FOR THE GARDEN.

Now, the above-mentioned seed-bags, which are used in the open, and which we use very extensively, are made of water-proof manilla paper, and we find them the very best thing for labeling the seeds you have planted, that we have ever yet had in our possession. Stick them on, or a pine stake, like the one figured below; and after standing out 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 are apt to get broken, but, 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.

GALVANIZED WIRE CLOTH.

Four and eight meshes to the inch. Per sq. ft., 10c; 10 ft., 85c; 100 ft., $7.50. Suitable for out-of-doors use, for tents, chicken wire, staining, covering, planting, etc. By mail, 60c per foot for postage.

BOXES FOR STARTING SQUASHES, MELONS, CUCUMBERS, ETC.

During my visit to Arlington, in July, 1878, I noticed that the squash-growers had a plan for getting Boston Market 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 squash, 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 striped bug will enroll through mosquito bar. As the glass is to move loosely, it is not a very long job to slide them all back when the weather is mild, and close them up again at night, when frost comes. If the earth is banked around the lower edges, it makes quite a miniature cold frame. I was astonished while at Arlington, in making to see squash-vines fully a month ahead of the usual time; but I was told these boxes were the explanation of it. Don't fail to have a big lot of good manure under every box (see our little book, 'Gregory on Squashes'). Prices of these little boxes without glass, in the flat, 10 cts. each; 5 cts. for 50; $7.50 per 100. Glass to match, $2.50 per box of 50 square feet. There are about 50 lights in a box.

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 galvanized wire, the 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; 50 cts. for 10; $4.50 per 100. Smaller sizes, for single plants, 1 cts. each; 30 cts. per 10; or $3.50 per 100. Small ones can be sent by mail in lots of 10, at 25 cts. for postage in the 10.

POTATO-BOXES.

GALVANIZED BOUND. (TERRY'S).

These are made of basewood, bound with galvanized iron. The galvanized iron gives strength, and the basewood strength and lightness. We hold exactly a bushel when level full, and may be piled one on 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 protect the contents from the sun and rain; and from their shape a great many more bushels can be set into a wagon than where baskets are used. They are also much more substantial than baskets.

Price, nailed up, 25 c each; 10, $2.25; 100, $20.00.

In the flat, including nails and galvanized wire-cloth, 3 per pkg., 1 doz. 2 nailed and 10 packed inside $2.16; 10 pkgs., 5c per cent off.

SLATTED POTATO-BOX.

As the pieces of which the boxes are made are cut from remnants of basewood left in box making sections, we can furnish them nailed up for 25 cents each; 10 for $1.85; 100, $16.00. Material is sent to customers who include nails in packages of 2 boxes, each, at $1.50 per package, and each package includes two of the 12 boxes nailed up, complete. Ten pkgs., 5c off.

Please be careful in ordering to say whether you want the galvanized bound or the slatted boxes.

ALL-SLATTED BOXES

with ends as well as sides and bottoms of slats put up in a package, including nails, $1.50 per pkg.

OUR

$4 Daisy Wheelbarrow

Strongly made for gardeners, flower growers, and general use. Has steel wheel, axle, and bearings; steel springs with adjustable bearings. Exclusively painted and varnished. Will cart 150 pounds.

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. This powder sells at from 40 cts. to 50 a pound, and even then is often largely adulterated. With us it has been the surest thing to kill all sorts
of small insects, laying them out dead even a few minutes after they have ever got hold on them. When used in the insecticide-bowls, shown below, a very little of the powder is required.

**INSECT-POWDER BOWLS; 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 must all be closed; but where it is not practicable to do this, you can tumble the flies on their backs, even though the door is open. The mixture will be effective in killing the powder. In painting new houses in the summer time, when flies are troublesomely, the instrument is worth more than its cost, for this alone. It will kill even the green fly in our lettuce-greenhouses; for with the above bowls you can fill the room with such a dust that the flies cannot move. This description has to do; and the strongest and best part of it all, is that it is not at all poisonous or injurious to human beings. In the opinion of experts, the right one here is not half as unpleasant as it is to endure the flies.

**Price of the powder, all ready for use, one ounce, 50 cents; one-half pound, $1.25; one pound, $2.50. Price of the seeds, one packet, 5 cts.; one ounce, 61 cents; one-half pound, $3.50. By mail, 18c per lb. extra on powder, and 9c on the seeds.**

**TOBACCO DUST.**

This is sprinkled in the garden, on the ground around lettuce in the greenhouse or on melon and other vines just as it comes from the bag. It can be bought for 61 cents per half a dozen dozen should be without one. Full instructions for using it are accompanied with each article. With a little dish, arranged in the above the most kinds of powder-guns for using a small quantity of pyrethrum, or pyrethrum and ground pimento or pimento in order, please state which purpose you wish it for. Price 6c extra per yd. 3c.

**PUTTY-BULB.**

For setting garden plants, without preserving saucer, etc. This is a rubber bulb, with nozzle, for running liquid putty along the roots of cuttings and plants in pots; and this makes it possible to put half a dozen dozen should be without one. Full instructions for using it are accompanied with each article. With a little dish, arranged in the above the most kinds of powder-guns for using a small quantity of pyrethrum, or pyrethrum and ground pimento or pimento in order, please state which purpose you wish it for. Price 6c extra per yd. 3c.

**GOODS ESPECIALLY FOR POULTRY RAISERS.**

Pare meat ground, expressly for poultry. Per lb. 5 cts.; 5 lbs. 3 cts. per lb.; 10 lbs. 2c; 25 cts. per lb.; 100 lbs. 8c per lb.; 1000 lbs. 4c per lb. Ketchup,hipped, shipped from factory. 2 cts. per lb. Fowl's will eat this almost as great a protein as such common and nourishing substances as egg-shell, but it gives them considerable animal matter besides. Excellent for laying hens. It is packed in thin-shell eggs.

Bone meal ground fine, for gardening purposes, same price as the above.

**SUNFLOWER SEED, MAMMOTH RUSSIAN, per Ib., 10c; 100 lbs., 85c.**

**BOOK ON GARDENING, FARMING, ETC.**

I have indicated my opinion of the books by characters as follows: Books that I approve. I have marked with a *; those I especially approve. **

3 | A B C of Potato Culture, Terry **

The Terry is one of the best of potatoes; it has an enormous sale, and has been reprinted in foreign languages. When we are thoroughly conversant with friend Terry's system of raising potatoes, we shall be ready to bandy it with Farm crop successfully. It has 50 pages and 9 illustrations.

4 | An Egg Farm, Stoddart **

No matter whether you raise eggs on a large scale or a small scale, you can not afford to miss reading friend Stoddart's book. I do not know that I ever get hold of any piece of fiction—not even Robinson Crusoe, that so thoroughly fascinated me as these chapters in regard to raising poultry on a large scale. The work has 86 pages and 8 Illustrations.

7 | Farm, Gardening, and Seed Growing **

This is by Francis Bril, the veteran seed-grower, and is the only book on gardening that I am aware of that tells how to make a farm crop successfully. It has 180 pages and 18 Illustrations.

5 | The Silo and Ensilage, by Prof. Cook, new edition.

Two thousand copies of the first edition of this little book were sold in about eight months, and Prof. Cook could not get out a new and enlarged edition, fully illustrated with excellent engravings. The pictures are worth alone to me a good deal more than 2c. The whole matter is treated in

friend Cook's happy way of making things plain. We can understand it all quickly, and find out for ourselves the facts. This is one of the best books that I am aware of that tells how to make a farm crop successfully. It has 180 pages and 18 Illustrations.

3 | Maple Sugar and the Sugar-bush, by Prof.

The name of the author is enough of itself to recommend any book where it is. But this one on maple sugar is written in Prof. Cook's happy style. He takes different points in regard to making the very best quality of maple syrup and maple sugar, with great care and attention. He tells us how, by easy and practical methods, he reduced the grapevine come into the work, and make a pleasant, orderly appearance of what he does. He is an ardent enthusiast, the work and the best part of it is, that you get great crops of beans while you are doing almost any other kind of work. We have tested the system, and know whereof we speak.

10 | Farming For Boys **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

11 | Gardening For Profit, New Edition **

This is a separate edition of Peter Henderson's celebrated work. We think it is about the time for working with a much toward making market gardening a science and a pastime. Peter Henderson states the question, although we have many other books on these rural occupations, this is the one book, let it be the above. It has 376 pages and 138 cuts.

12 | Gardening and Farm Topics, Henderson **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

13 | Gregory on Cabbages: paper **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

14 | Gregory on Onions: paper **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

15 | A Treatise on Tomato Culture **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

16 | Irrigation of the Farm, Garden, Orchard, and Broth **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

17 | A Treatise on Strawberry Culture **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

18 | A Treatise on Agriculture, or the Watermelon Captive **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.

8 | What to Do, and How to be Happy While **

This is a large book, and it is very necessary reading for anybody who is interested in gardening, and especially for young people as well as to old brought in a most happy way. If your children have any sort of taste for gardening I will pay you to make them a present of the book. It has 376 pages and 138 cuts.