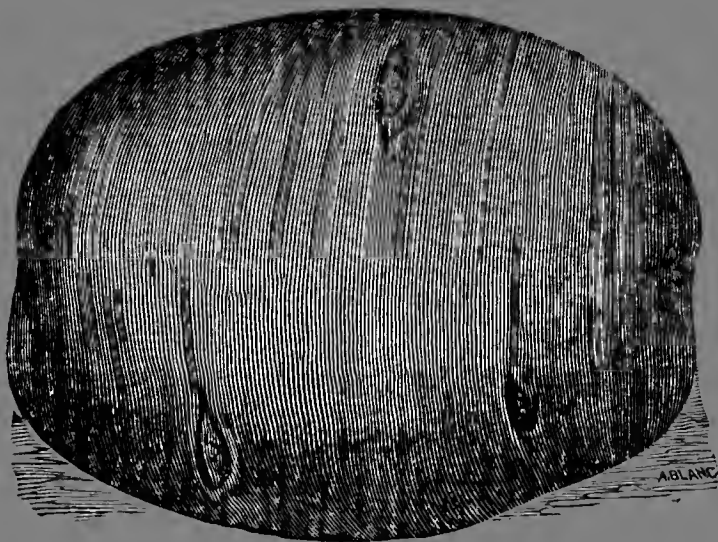


HOWE'S
POTATO * MANUAL

1891.



Charles Downing.

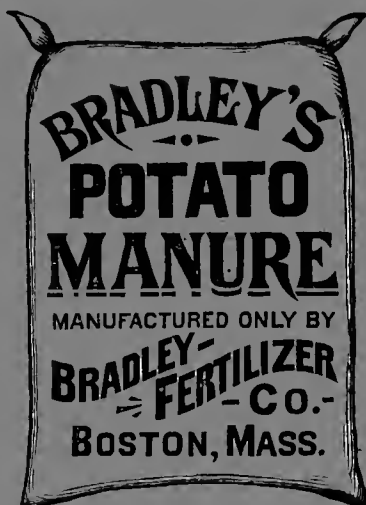
By G. D. HOWE,

NORTH HADLEY, HAMPSHIRE COUNTY, MASS.

NORTHAMPTON, MASS.
PRESS OF GAZETTE PRINTING CO.
1891.

RICH IN POTASH.

*THE MOST
ECONOMICAL
POTATO MANURE
IN THE
MARKET.*



*PRODUCES
LARGE, SMOOTH
TUBERS
OF
BEST QUALITY.*

Bradley's Potato Manure did not have its origin in the laboratory, nor is it based upon any subtle theory. It was introduced to meet the call for a thoroughly reliable potato manure, which could be sold at a moderate price.

It is prepared on those formulas and from such materials as repeated tests in the field have proven will produce the largest crops of large size, smooth-skinned potatoes.

We annually receive from leading potato growers testimonials showing that the use of from 500 to 1000 pounds of Bradley's Potato Manure produces so healthy and vigorous a growth of plant and tuber that the crop is free from rot and scab, the potatoes proving of fine quality, smooth-skinned and large-sized, and therefore readily commanding the highest market price.

We have never known of a single case where this fertilizer has not given entire satisfaction, and many who have used it side by side with high-priced "Special Potato Manures," pronounce it fully equal and oftentimes superior to them at a very considerable saving in cost. No potato fertilizer in the market has given such universally satisfactory results in producing large crops of fine quality potatoes, under the ordinary conditions of soil and cultivation though large yields may have been obtained by the use of excessive quantities of fertilizer and expensive methods of cultivation upon selected lands, induced by the offers of large prizes. Results obtained under such unusual conditions are by no means indicative of the intrinsic value of a fertilizer, and entails a heavy expense upon all contestants, who, save the one or two successful ones, are naturally dissatisfied as well as skeptical of the prize crops.

For Sale by our Local Agents Generally.

BRADLEY FERTILIZER CO.

27 Kilby St., Boston, Mass.

Howe's Potato Manual for 1891.

— BY —

G. D. HOWE,

North Hadley, Hampshire County, Mass.

Dear Friends :—It is with pleasure that I make you another of my annual visits through this, my Manual for '91. I hope the visit will be received and enjoyed with as much interest and enthusiasm by you as it is made by me.

It has been my intention now for some time to devote a large portion of my Manual of some particular year to a description of my method of growing potatoes, illustrating and describing each tool I use and thus striving to make it as valuable a compendium as possible on the subject of potato growing. It is my intention that when I get to this particular Manual, it shall be of as much interest to the person who grows only a few bushels as to the grower whose bushels are numbered by the thousand. It will aim to give some hints that will help you to increase the quantity, improve the quality, and lessen the expense, which done must increase the profit, a somewhat desirable condition of affairs. In this I shall not depend upon my own experience alone. My acquaintance with potato growers is naturally somewhat extensive, and I shall endeavor to give the methods and experience of some of the most successful of these, which will add to the value of my own observations and tend to make the treatise applicable to growers in all sections of the country. This will increase the size of the Manual and I shall probably feel obliged to make a charge for it, though it will probably be sent to all my former customers free, as a complimentary acknowledgment of my appreciation of their favors.

I have decided not to carry out this idea this year, but give you instead this unpretentious little pamphlet, which however you may not find wholly devoid of interest and value to you.

The following item from the American Cultivator contains a very important point that I want to impress upon my readers, and so I quote it entire :

“ POTATO SPROUTING.

A recent bulletin of the New York experiment station announces some surprising results in storing potatoes grown in various localities North and South. Quite unexpectedly to the experimenters, Southern grown potatoes did not sprout so quickly as those grown in Maine. Yet, on trial, it was found that the Northern seed, though exhausted by sprouting, produced the best crops, though even here there was no uniformity in the result. The comparative ripeness of potatoes has much to do with their tendency to sprout early. A fully ripe and dried potato sprouts easily and quickly. It also contains the most starch, and even after one or two sets of sprouts have been rubbed off it may yet have more starch to nourish the germ until it can root than has the watery, immature potato. It is the habit of some Southern potato growers to grow a crop very late in the season, and gather when frost kills the vines for seed the following Spring. It may be some Southern potatoes thus grown that Prof. Roberts made the basis of this experiment. Early planted Southern potatoes, especially of early

New Pamphlets issued by the Mapes Co.,

MAILED FREE.

- 1. POTATO GROWING**—Prize Crop Contest—Potatoes, Corn, Wheat, Oats. How the two largest crops of potatoes ever grown with fertilizers or farm manure (847 and 745 bushels per acre) were raised with the Mapes Potato Manure. Over 6000 bushels of potatoes on a 20-acre field at Freehold, N. J., season 1890. This field "was formerly the poorest on the farm": "rarely in former years did this farm with farm manure, bone and marl, and under favorable conditions, produce 20 bushels of wheat, or 40 to 50 barrels of potatoes per acre." Since the commencement in the use of the Mapes Manures some fifteen years ago, the land has become so much improved that the crops of six years and over have averaged nearly double those of former years. Other farms brought up from poor to good condition and with profit from the start by the Mapes system of manuring on a five year rotation. One ton per acre of the Mapes Potato Manure on potatoes—succeeding crops Wheat, Grass,—two years or more,—Corn, with little or no additional fertilizer. Full details given.
 - 2. TOBACCO MANURE**—Suggestions for more successful competition against Sumatra Wrapper Leaf. Remarkable results with the Mapes Tobacco Manure in Massachusetts, Connecticut and Pennsylvania, in producing yield, quality, good burn, high finish, etc. 2400 pounds Havana Leaf per acre on an average for five years in Connecticut by an old user of the Mapes Manure.
 - 3. FRUIT AND ORANGE GROWING**—Necessity of special manuring for promoting quality and quantity of fruit—Oranges, Grapes, Small Fruits, apart from vigorous wood growth.
 - 4. DESCRIPTIVE PAMPHLET**—The Mapes Manures and How to Use Them. Truck, Cabbage, Cauliflowers, Sugar Beets, Tomatoes, Onions, Celery, Rhubarb, Top Dressing Grass or Lawns, Seeding to Grass, Orchard, Tobacco, Small Fruits, Grapes and General Farm Crops, Oats, Corn, Potatoes, Grain, etc.
-

ON THE MAPES MANURES.

"Our own experiences with various commercial fertilizers have convinced us that with judicious use of the Mapes Manures, worn-out lands can be Restored to Fertility Quicker and with less expense than in any other way."—*American Agriculturist*.

"Under average conditions, and in far the greater number of cases, we do not hesitate to name the Mapes Potato Manure as the best and most profitable fertilizer for Potatoes."—*American Agriculturist*.

"Its action approaches certainty, or as near it as any manure can be expected to do."—*E. S. Carman, Rural New Yorker*.

"The Mapes Manures give surprising results to those who use them, and we believe the reason is that the ingredients are mixed with brains. It is said, besides, that the raw materials which compose them cost within ten per cent. of the cost of manure ready to apply to the soil. This latter statement is apt to be true, the former we are certain is true. There is great skill shown in having the nitrogen, potash, and phosphoric acid just in the right proportion, in the proper form, in the right fineness and solubility, so that action is prompt and certain. Often the elements in a fertilizer are present as shown by analysis, but they are not in condition to act, and the benefit is not apparent, but Mapes seems to have everything just right, and his manures are perfectly sure to do the work intended of them. This is our experience."—*Farm Journal*.

Special attention given to securing low rates of freight, particularly to distant points.

Arrangements have been perfected whereby users of fertilizers even in sections where Mapes Manures are not for sale by local dealers, can procure these manures in any quantity (one bag and upward) at reasonable rates. Correspondence solicited.

THE MAPES FORMULA AND PERUVIAN GUANO COMPANY,

158 Front Street, New York.

sorts, cannot be kept until Winter without wasting almost entirely away with sprouting. But the fact that there are yearly large exports of Northern-grown potatoes to the Bermudas for seed is evidence enough that the Northern and Eastern-grown seed is better than any other."

Here is something that should command the careful attention of all who are desirous of making the potato crop a successful and paying one.

The amount of starch that potatoes contain is one of the secrets of superiority of northern and eastern grown seed to any other. Yet it must not be understood that all northern grown potatoes are equally valuable for seed purposes, as there are quite a number of items to be considered in producing the best seed potatoes.

The Experiment Stations seem to have settled two important questions in regard to potatoes. First, that seed can be bred up in productiveness or can be run out, as it is called. Second, that the use of sulphate of potash to the exclusion of all other forms of potash tends to produce tubers with the maximum amount of starch in them.

The importance of these facts to my customers and myself is that my choice seed stock is grown in strict conformity to these results.

It is expensive work selecting the most productive hills from a lot of potatoes, but that is the way to breed up in productiveness, and is the way I have bred up my stock of different varieties.

It is much more expensive growing potatoes on sulphate of potash than on muriate or other forms of potash, but this is the way my entire stock is grown.

A larger crop can be secured on heavy land than on light land, generally speaking, or other things being equal, but my entire stock was grown on light land.

It is the easiest thing in the world to mix up different varieties of potatoes, as I have found out to my sorrow, having several times bought high priced new varieties of reliable growers and dealers, and planted them expecting to have something valuable to offer to my customers the next year, but to my disappointment upon digging them I have found two or three distinct varieties mixed, necessitating the throwing away of the entire lot as far as seed stock is concerned. On this point, I believe my stock to be as free as is possible from this fault, as I give personal attention to my planting and digging, having none grown out around as is the custom with the majority of seedsmen offering seed potatoes. I grow all the potatoes I sell, unless it is otherwise stated or in the case of the novelties which I procure direct from the introducers to insure purity. Giving my whole attention to the growing of seed potatoes I believe I can secure better results to my customers than others who divide up their energies between many things.

Further in regard to the value of a certain lot of potatoes for planting purposes, they may be grown in accordance with the ideas already named and get greatly injured by improper storage during the winter. The art of keeping potatoes perfectly dormant from digging time to planting time, so that they can put their full vigor into the first sprouts which are to grow, is no insignificant thing. I believe my facilities for storage are as good as any to be found, and that my seed potatoes will give abundant satisfaction to those who use them.

Awaiting your early commands, I am, yours faithfully,

G. D. HOWE.

MY ADVERTISERS.

In regard to my advertisers I will say that it is an easy thing to get a lot of advertisements, but many persons who are the most desirous to advertise I would not admit to my pages at any price. I am very particular as to standing of the parties who appear as advertisers in my Manual and believe that they are all reliable and to be depended upon and have something, withal, that is worth advertising. In this matter I believe I am doing my readers a favor in being the means of giving them the addresses of reliable firms.

It will be a favor, doubly appreciated, by both the advertisers and myself if when answering advertisements you will just mention "Howe's Potato Manual."

IMPORTANT!

HOW TO SEND MONEY.—The quickest way is by express money order or bank draft. P. O. money order or registered letters are good, but slow. U. S. Postage Stamps of any denomination taken. MONEY ORDER POST OFFICE IS NORTHAMPTON. Make all papers payable to the order of G. D. Howe. Postal notes are convenient, but no safer than loose cash in the letter, as they are payable to bearer. Individual checks will be taken, but I shall have to stop to collect them before filling the orders which they cover.

OUR GRANGE HOMES.

Is the only distinctive New England Grange Paper.

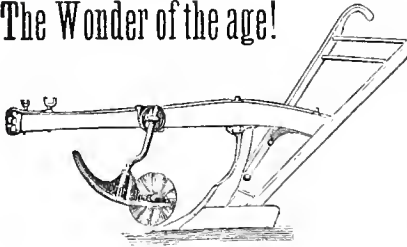
The Master of the Massachusetts State Grange says: "Among the many agricultural and grange papers that come to my desk, none excel OUR GRANGE HOMES in editorial ability of typographical taste and skill."

25 cents on trial for 3 months. Address

No. 34 Merchants Row,

Boston, Mass.

The Wonder of the age!



AGENTS WANTED.

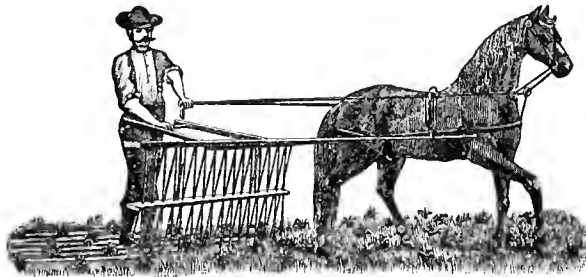
MOON'S Colter and Plow Gauge!

We guarantee it to cut any growth of grass, vines, clover, weeds, stalks, or other vegetation. Is the only Colter that will do this work perfectly. It will save 20 per ct. in the draft and with a walking plow will do the work of a Sulky Plow. No other Colter has the "Shoe" for bearing down the rank growth. Send for circulars.

MOON COLTER MFG. CO.,
HUNTSVILLE, ALA.

BREED'S UNIVERSAL WEEDER AND CULTIVATOR.

For weeding and cultivating all standard farm crops and putting in grain and grass seed it has no equal.



For cultivating wheat, and all growing grains, also for leveling and working in commercial fertilizer it is perfect.

Early and frequent use are only required to secure the best results. Endorsed by leading agriculturists throughout the country. Jas. J. H. Gragory, the noted seedsman, in his annual catalogue for 1891 in an article, "How I Grow Potatoes," recommended the weeder for the early cultivation of that crop. T. B. Terry, one of the best known potato growers and farmers in the west, thus gives his experience:

SUMMIT Co., O., June 10, 1890.

UNIVERSAL WEEDER Co., North Weare, N. H.

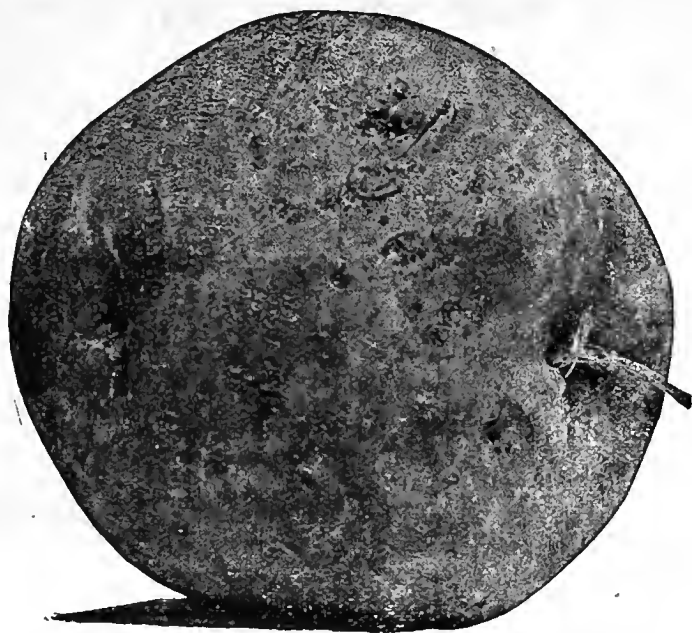
Dear Sirs:—I have used your Weeder now two seasons. One would naturally think that such a light harrow would do little good each a season as this, but it has been very valuable to me. After our potatoes were planted it rained heavily and very frequently for about a month. This packed the ground very hard, in fact so hard the Weeder could scarcely touch it. As soon as we could see the rows we cultivated the field and followed with the Weeder, which hoed the stripe along the row left by the cultivator nicely, stirring every bit of soil. There was one outside row too rough to use the Weeder on, it being plowed nearer the fence than usual, which had to be hoed by hand. While this was being done my son hoed with the Weeder and one horse, and more thoroughly, thirty-six rows. We had harrowed the piece between showers so there were no weeds. We had a shower last night and my son is running the Weeder over an acre an hour to-day, doing both hoeing and cultivating as deep as needed. I am sorry we have not another Weeder so we could get over all the ground while it is just right to crumble nicely. Must have two next year. I have not used the Weeder on corn, except on a little sweet corn in the garden. It worked all right there.

Yours truly,

T. B. TERRY.

THE UNIVERSAL WEEDER CO., No. Weare, N. H.

Send for free circulars and price list. Where we have no agent we will ship machines prepaid at retail price.



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HOWE'S PREMIUM,

A new, very early Potato of great promise.

The above illustration appeared in the Rural New Yorker last March together with Mr. Carman's report on tests of new varieties of potatoes. I knew nothing of it whatever, until a friend called my attention to it, some several days after it had been published. The natural inference is, that it was for intrinsic merit that it was selected, in preference to the other novelties of the season, as a subject for illustration in this leading rural publication. The following is the report given on the test of this potato.

"Howe's Premium, from G. D. Howe, North Hadley, Mass. Cannot say as to earliness on account of blight. Two pieces yielded 12 large and seven small tubers. Peachblow shape, roundish, irregular, as shown in Fig. 46, from nature. Eyes rather deep, purplish. Skin buff with some pink. Yield $6\frac{1}{2}$ pounds, or 786.50 bushels to the acre."

This yield is equaled by only one other variety reported, which is given exactly the same figures.

This is the most distinct variety ever offered. It is so unlike other potatoes in appearance that a bushel of them mixed at random in a large pile of one hundred different varieties, could be easily picked out again with a certainty. It is almost perfectly round, pinkish skin, white flesh, is exceedingly early, grows compact in the hill, yields well, resists rot, is good quality, and keeps sound and solid for a year.

A friend of mine, Horticulturist at one of the experiment stations, mentioned incidentally in a recent letter the value he placed on my new potato. Out of about 300 varieties tested at the Station, it was, with a single exception, *the earliest of them all*, and yielded nearly 300 bushels per acre. He mentioned that a friend of his had tested carefully fifteen of the earliest varieties he could find and pronounced this the earliest of his list.

J. J. H. Gregory, Seedsman, of Marblehead, Mass., and what better authority can you desire, says of this variety in his catalogue for '91: "This is a new variety that I want all my customers who want a first-class early potato to make the acquaintance of. In my last year's catalogue, I spoke of it as follows: 'Among the sixty-four varieties planted in my experimental plot last season, this was the most distinct early variety; the short, stout vines, and the broad, stout leaves attracted the attention of every visitor. The crop was an excel-

THE STANDARD

Worcester Buckeye Mower!



Has Patent Self-oiling Pitman.

New Scythes that will not break.

Patented Steel Chafe Plates maintaining the shear cut.

Carrying Springs which carry the weight of Cutter Bar lightly over the ground reducing draft.

These improvements show at sight their value. No other Mower has them. Beware of imitations.

Buy no Mower until you see the "Standard Worcester Buckeye" with improvements for 1891.

Don't fail to see the new Six Foot Mower, the lightest draft Mower ever put in grass.

The Richardson Manufacturing Company,

WORCESTER, MASS.

lent one, of large, handsome potatoes, having a pink skin, nearly round in form, and the *earliest marketable lot in the plot*. The Premium is decidedly an acquisition, and I advise all my customers to test it.' With the experience of another season I can fully endorse all I then said of it. The eyes are of a richer pink than the skin, making it remarkably handsome and attractive; flesh white. My regret is that I cannot offer this potato to my customers this season by the quantity; but the water stood a while on a part of my land and injured the yield. Where it had a good chance it yielded three hundred and twenty-five bushels to the acre. It proved to be earlier than the New Queen, raised side by side." In a circular accompanying his catalogue, he says: "Howe's Premium is an earlier potato than Beauty of Hebron or Early Rose; a good cropper with good shape, size and color for market."

In 1889 I advertised in about seventy different papers that I would give away a new variety of potato to every fifth applicant for my Manual, who named the publication in which my adv. was seen. This offer brought so many applications that it took nearly a barrel of this valuable new potato to supply every fifth person with a quantity small enough (less than 2 oz.) to be mailed for one cent postage. These little samples went every, where in the U. S. and Canada.

Since then I have been receiving constantly testimonials as to the merits of this variety, and have now a large package of them, but the few below taken from my last Manual, are quite representative of the rest and cover pretty much all that can be said in favor of any potato, so I let them suffice:

Dr. PETER COLLIER, of the N. Y. Experiment Station, writes of this Variety: "Tested with 170 varieties,—it ripened among the first, and resisted the blight, which has been very bad through this section. The early and late varieties were planted at the same time, and all left to be harvested together, in order to see the rot resisting character of each. While varieties on both sides of it had rotted quite badly, it was entirely free from the disease."

JOHN F. APGAR, of Platt Co, Neb., says: "Planted May 1st, which was late; potatoes grew fast, but were stunted some by a hail storm; matured with the Early Ohio, which was planted a month earlier. From the small tuber sent I dug 7¾ pounds. Now in regard to this potato, I cannot say too much in its favor; is as fine a looking potato as I ever saw, have not one fault to find with it, think it deserves a foremost place among the many deserving varieties."

JOSEPH HAMPTON, of Cumberland Co., N. J., says: "Did not plant until the 6th of May, yet it ripened as soon as the Early Rose, which was planted on the 5th of April. Yield was wonderful; water covered the ground a good part of the time, hence they got no cultivation."

D. SALISBURY, of Juab Co., Utah, writes that: "If I was going to plant one variety of potatoes, it would be Howe's Premium for these reasons: It is as early as any that I have tried, it is a nice smooth potato, they grow compact in the hill and are easy to dig. Raised 15 pounds from the one potato planted; no extra cultivation."

A. E. BRANDT, of Dauphing Co., Pa., says: "Two months after planting made an examination, finding nice, marketable sized tubers—stalk with all its tubers easily lifted up in a forkful. What struck me particularly was the uniform size and entire absence of small tubers; an extra early potato, nice, smooth and white; cooked dry and floury."

R. W. SPALDING, Windham Co., Vt., writes: "Planted May 13th, and the second week in August dug 60 good sized potatoes and 8 small ones. As nice looking potatoes as I ever saw, not a rotten one among them, while of the other 22 kinds each had a few rotten ones, with the same soil and treatment."

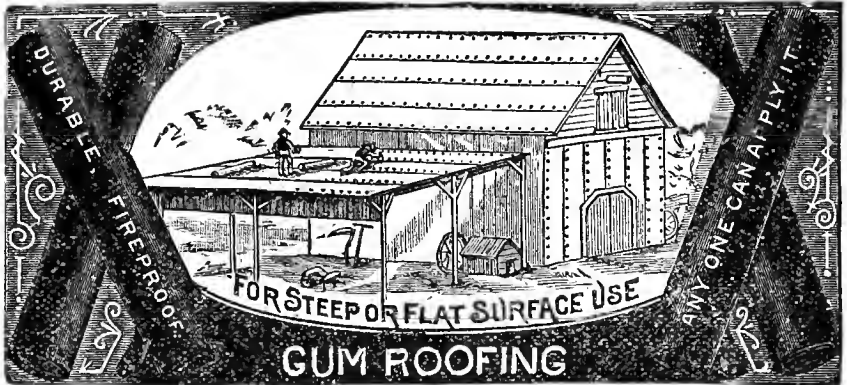
Mrs. MARY P. CHASE, Madison Co., N. Y., writes: "From three eyes I had twenty-two lovely potatoes, all good size, as round as balls. I cooked one, and it was as white and mealy and delicious as a potato can ever be."

JOHN JENNINGS, Carleton Co., N. B., Canada, says: "Did wonderfully well, was very early, same as Lee's Favorite, but a heavier cropper. When I tested it in October it was dry, white and mealy."

PRICES OF HOWE'S PREMIUM.—I am sorry I have not a large stock of this variety, so as to sell them low, and also be able to plant several acres of them myself to market early in the season and so secure the best high prices which the earliest new potatoes are sure to command this coming summer. But I sold my stock very short last year and so had but a few to plant and therefore have only a limited supply to offer this year at the following prices: By mail, 1 lb. 50 cents; 2 lbs. 85 cents; 3 lbs. \$1.25. By express or freight, 1 lb. 40 cents; 3 lbs. 85 cents; ½ peck, \$1.00; 1 peck, \$1.25; ½ bushel, \$2.25; 1 bushel, \$4.25; 1 bbl. \$11.00.



A **N**OTHER YEAR has this noble Pear yielded a fine crop of fruit, while other varieties have proved an entire failure. This indicates the hardiness and vigor of tree buds and blossoms. We send the fruit thousands of miles by mail and express, and all have remarked that its quality was of a very superior grade. "It is even better in quality than last year," writes the Storrs & Harrison Co. "Wilder Early Pear is handsome, melting, sweet, pleasant, very good." —*Ellwanger & Barry*. "It has come to stay." —*Hon. H. E. Van Deman*. "One of the best, if not the best of its season." —*Pres't T. T. Lyon*. "Good, handsome, pleasant." —*J. J. Thomas*. "Delicious, worthy of trial." —*Rural New Yorker*. "Larger and juicier than any of the earlier pears growing here." —*Thomas Mehan*.
 PRICE of 1 year trees, \$1.00; 2 year trees, \$1.50. Dwarf Wilder, 75c. One Wilder pear tree and 1 Idaho, 1 year, for \$3.00. Send for free Catalogue and sample copy of *Green's Grower*. Address, GREEN'S NURSERY CO., ROCHESTER, N. Y.



THE GUM ELASTIC ROOFING is Absolutely Non-Combustible. If painted, it is guaranteed to last 10 years. Costs only \$2.00 per 100 sq. feet. Strongly endorsed by New York Board of Underwriters. Send stamp for circulars, samples and full particulars.
GUM ELASTIC ROOFING CO., 41 West Broadway, New York City.

**\$100.00
 PRIZE
 ONION.**

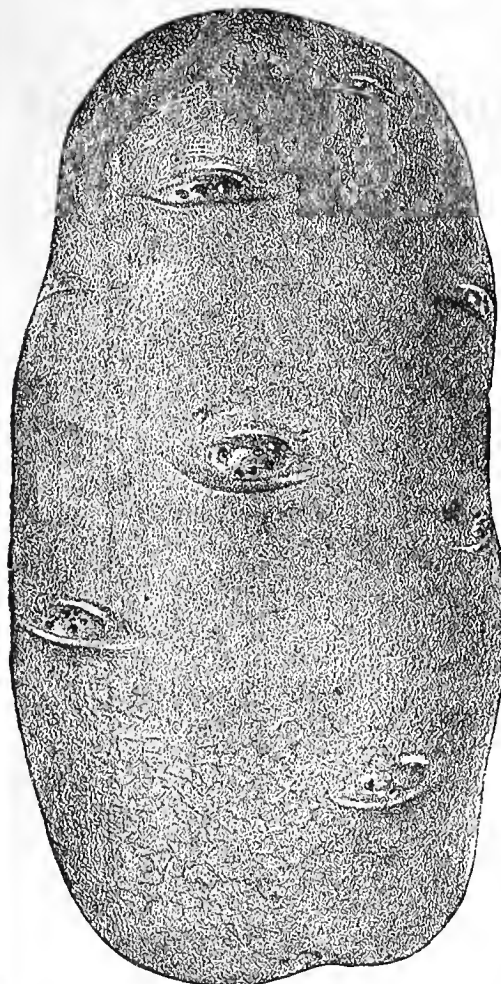
The universal favor accorded Tillinghast's Puget Sound Cabbage seeds leads me to offer a P. S. Onion, the most carefully selected Yellow Globe in existence. To introduce it and show its capabilities, I will pay \$100 for the best yield produced from one ounce of seed, which I will mail to any address for 30 cts. My annual Catalogue with full particulars free.

ISAAC F. TILLINGHAST, Seed Grower.

La Plume, Pa.

GRAPES NIAGARA and all old and new varieties, Extra Quality, Warranted true. Lowest rates. Introducing the new Black Grape **VINES**
EATON.

Also other SMALL FRUITS. New Descriptive Catalogue Free. T. S. HUBBARD CO., FREDONIA, N.Y.



MONROE CO. PRIZE.

more longer and grow accordingly. I obtained my original stock direct from the introducers and have it pure. Only early orders will be sure of a supply.

Prices,—by mail, 1 lb., 20c; 2 lbs., 38c; 3 lbs., 50c. By express or freight, 3 lbs., 25c; $\frac{1}{2}$ peck, 50c; 1 peck, 75c; $\frac{1}{2}$ bush., \$1.25; 1 bush., \$2 00; and 1 bl., \$5.00.

LEE'S FAVORITE.—A justly popular variety in Ohio, where it was first introduced. Very early. Form something the same as early Puritan, yet not quite as smooth; color white with pink about the eyes and on the seed end.

27 NOVELTIES.—Arizona, Badger State, Corona Beauty, Early Rochester, Early White Beauty, Early Wisconsin, Eyeless, Gov. Foraker, Gov. Rusk, Halo of Dakota, Hoffman, Hotel Favorite, Iowa Beauty, Iron Clad, Koshkonong, Mill's Prize, Mrs. Foraker, Northern Beauty, Northern Queen, Richmond Belle, Rochester Rose, Roger's Seedling, Rough Diamond, Seneca Beauty, Signal, Vick's Champion, Victory. Prices for the above 27 novelties 50c per lb. by mail or 3 lbs. for \$1.25.

INTRODUCTIONS OF 1891.—Freeman, lb. \$3.00; Landreth's Farmer's Alliance, 60c. lb.; Late Puritan, 38c. lb.; Negro, 65c. lb.; Pride of Ireland, 20c. per tuber, 3 tubers 50c.; Van Ornam's Earliest, 50c. lb., 3 lbs. \$1.00; Vaughan, 50c. lb., 3 lbs. \$1.00; Wilson's First Choice, 60c. lb.; Woodbury's White, 3 lbs. \$1.00. The above prices are for goods sent by mail.

MONROE CO. PRIZE.—There is such a liability of overdoing the matter in praising any potato that I am as cautious as possible in this respect in speaking of any variety. A purchaser prefers to be agreeably disappointed than to have high hopes and expectations over a new potato, thinking perhaps that he is surely going to glut the market, and to his sorrow is miserably disappointed.

But this variety has shown itself so worthy under my own eyes for three years and is so universally praised on every hand that I am inclined to put it at the head of my list for a general crop variety. I call it the heaviest yielder of any variety I have been able to bring into a fair comparison with it. It seems to grow anywhere, as to character of soil, is very vigorous and rank, and makes an immense growth of tops, and a corresponding growth of tubers if the land contains the where-with-all to carry out the crop.

The quality is excellent, hardly equaled by that of any other variety. You can sell twice in a place with these, every time. They are not quite so smooth and level about the eyes as some might desire, but their large size will more than redeem that defect when offering them for sale. Skin white and inclined so be netted, flesh very white. Their quick, vigorous growth, enables them to get a deep hold on the soil that carries them right along in a dry time where many other shallow rooted varieties wither up and fail entirely. If dug any time that early potatoes are, there will be found to be an equal yield, but while the early ones stop their growth and ripen down these keep right on for three weeks or

WHITMAN'S UNRIVALLED Hay, Straw, and Wool Presses!

HAY BALING REVOLUTIONIZED!

Always Successful!

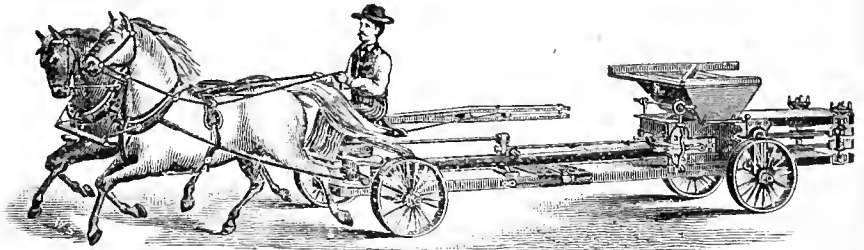
Fully Warranted!



Whitman's Steam or Belt Power Baler.

The most Rapid, Powerful and Durable Press in America.

We manufacture a full line of Presses, including Half Circle, Reversible, Full Circle, Steam and Hand Power—all sizes.



Whitman's Steel Full Circle Baler on the Road.


This Press has met with Wonderful Success everywhere, and is warranted to have no equal.

We also manufacture a large line of Farm Machinery.

Send for Circulars of Machines wanted.

Whitman Agricultural Company,

ST. LOUIS, MO.

 The Largest Hay Press Manufactory in America.

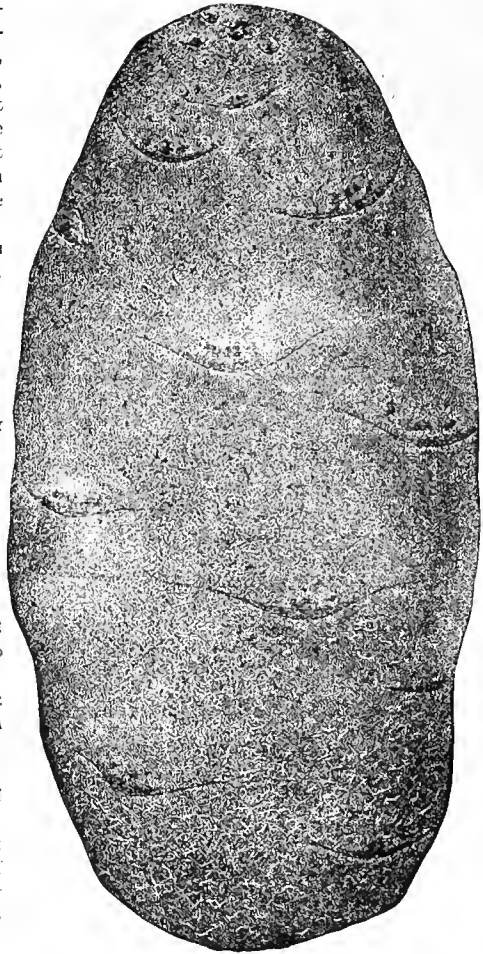
NEW QUEEN.—This variety is perhaps destined to accomplish the difficult task of superseding that now most popular variety, Beauty of Hebron, as a standard early sort. It is a little fuller at the stem end and not quite so pointed at the seed end. It is a little higher colored than the Hebron, and I don't see why it isn't as productive and as good in quality and I call it a little earlier, therefore think it in a fair way to accomplish its task. My stock was obtained originally direct from the introducer and is true and vigorous. Prices given on page 13.

COLLECTIONS.

Many persons desire to try new varieties from time to time with a view of finding something more productive or earlier or of better quality, or are looking for something in a potato a little different from what they now have.

To meet the wants of such I make these liberal offers.

I will pack a peck of a kind of ten valuable kinds in a bbl. for \$6.00, or ½ peck of a kind to fill a bbl. for \$6.50, or 5 lbs. of a kind to fill a bbl. for \$7.00. At this low price I must be allowed to make up the assortment: though you may mention what varieties you don't want and I can give you something else. These are the lowest prices I ever put on collections of this sort, and they will probably secure a ready sale of my stock of varieties, so if it meets your case, order at once, as I could not purchase a number of varieties of other growers for what I offer these to you for, consequently these prices will be limited by my ability to fill orders from stock of my own growing.

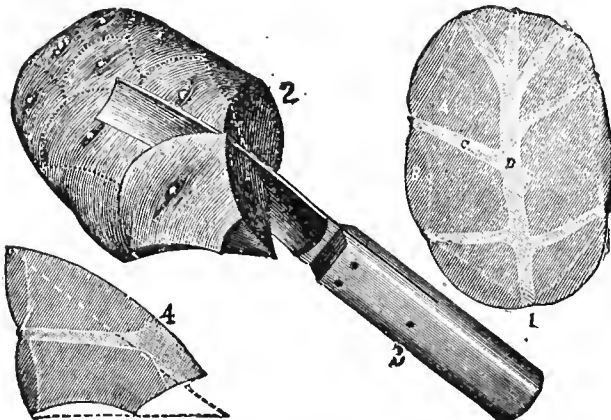


NEW QUEEN.

The Concaved & Curved SEED POTATO KNIFE.

Price, 35 cents by mail, or if put in package going by express or freight, 30 cents. This is very useful in cutting up seed to single eyes, as the accompanying illustration demonstrates.

Tools and special implements for potato growers, I can supply at the current market prices, being able to obtain them near by, so that they can be shipped with other goods going by freight without any additional cost.



Inclose stamp when inquiring about these tools as I make nothing on them.

EVERY OWNER OF HARNESS SHOULD USE

FRANK MILLER'S



HARNESS DRESSING

FOR HARNESS, BUGGY TOPS, SADDLES,
FLY NETS, TRAVELLING BAGS,
MILITARY EQUIPMENTS, ETC.

Gives a beautiful finish, which will not peel or crack off, smut or creak by handling, does not lose its lustre by age; dust will not stick to work finished with it. Is NOT A VARNISH. Contains no Turpentine, Benzine, Naphtha, Alcohol or other injurious article.

Used by the U. S. Army and is the *standard* among manufacturers and owners of fine harness in nearly every quarter of the Globe. Beware of imitations. Ask for and take only

FRANK MILLER'S HARNESS DRESSING.

Sold by Harness Dealers.

FRANK MILLER'S

Crown Dressing

LADIES AND CHILDREN

BOOTS AND SHOES.

An invaluable preparation for restoring Ladies' and Children's Boots, Shoes, Rubbers, Travelling Bags, and all black leather goods that are soiled or worn, to their original beauty and finish. **BE SURE** and ask for

**FRANK MILLER'S
CROWN DRESSING.**

IMPORTED INDIAN GAME FOWLS.—
A Colored Plate 10 cents. Circulars Free
P. A. WEBSTER, CAZENOVIA, N. Y.

FREE. STENOGRAPHY and
TYPEWRITING FREE.

First-class facilities and best of teachers.
Address, with stamp for return postage,

THE PARISH MFG. CO.,
PARISH, N. Y.

The Pet Stock Pigeon & Poultry Bulletin,
90 Broad St., N. Y. City,

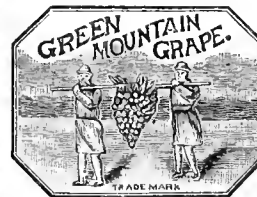
Is just what you want if you keep Hens, Pigeons
or Dogs. Handsomely illustrated and published
monthly.

Price, \$1.00 a year. Sample, 10c.

We send Bulletin and Ladies' Home Companion
for \$1.30.

We send Bulletin and Dickens' Complete Works
for \$1.50.

We send Bulletin and Mammoth Cyclopaedia for
\$1.60.



This grape originated in the Green Mountains of Vermont. It is very early; color, greenish white; pulp, tender, sweet and delicious. The only grape yet introduced that ranks first, both in earliness and quality. Each vine sold will be sealed with our Trade-Mark.

None genuine without it, as our copyright name "GREEN MOUNTAIN," gives us the exclusive right for its propagation for sale. Send for Circular giving further information. Address
STEPHEN HOYT'S SONS, New Canaan, Ct.

C. A. BARTLETT,
WORCESTER, MASS.,

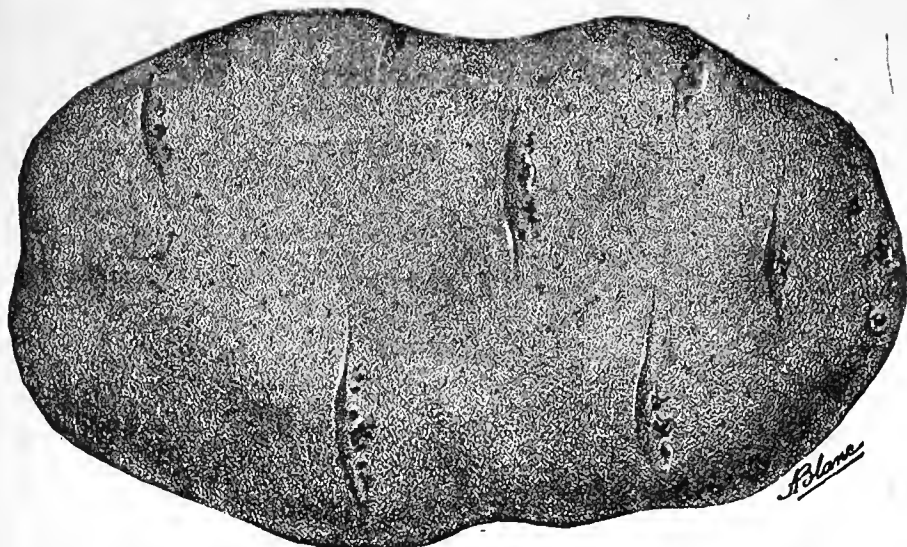
MANUFACTURER OF

FERTILIZERS

Pure Ground Bone a Specialty. Also
Animal Fertilizers with Potash, (A
Special for Potatoes.)

We are headquarters for Poultry
Supplies, such as Beef Scraps, O.
Shells, Deseccated Fish, Bone Meal,
Granulated Bone, etc.

Send for Circulars for more particu-
lars.



BOLEY'S NORTHERN SPY.

BOLEY'S NORTHERN SPY.—This is a very early and enormously productive sort. It is not ideal in form, having a rather uneven surface, owing to the eyes being deep. Flesh is as fine and white as can be desired. Color of skin very light pink, which is deeper about the eyes. Rather uncertain in its rot-resisting qualities. Where it is adapted it will give great satisfaction, but advise those who have not tried it to do so in small quantities at first.

QUEEN OF THE VALLEY, and **FAUST'S 1889**, are varieties closely related to Northern Spy, and differ from it only in small details; the latter is a little darker colored, and the former is pronounced by some to be the same thing as the Northern Spy.

DANDY.—A variety from Canada. Offspring of the Old Chenango. It is matchless white; surface quite smooth. It is long and somewhat flattened; late.

WHITE SEEDLING.—A late variety, very closely resembling Monroe Co. Prize, illustrated on page 9. The skin is speckled slightly. It is hard to see much difference between this and the M. C. Prize, yet I think is a distinct variety.

PRICE LIST.

For prices of Howe's Premium see page 7, and for Monroe Co. Prize see page 9.

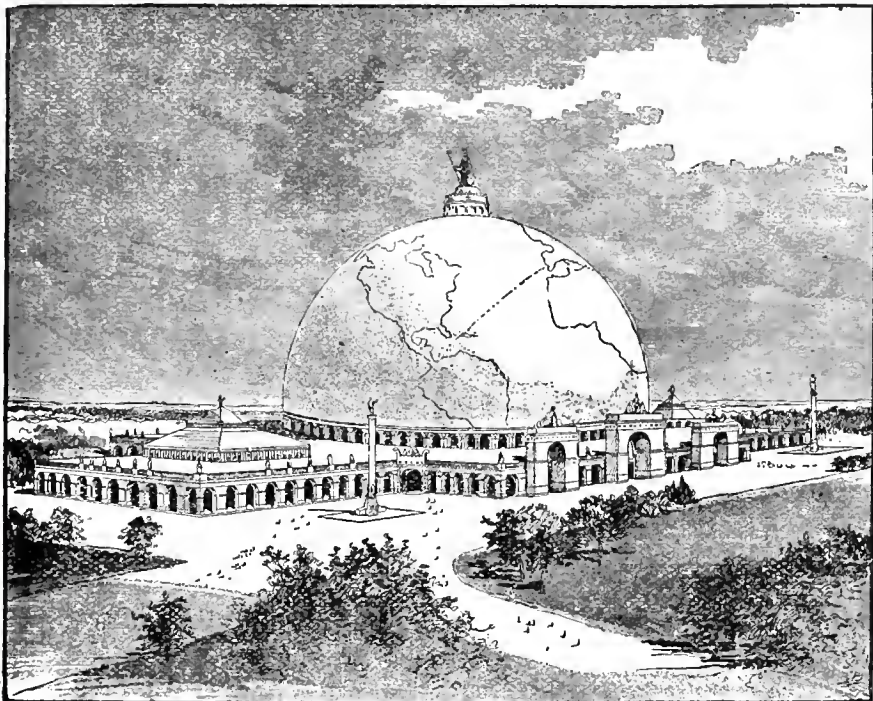
In the following list to get the price of 2 lbs. deduct 2c from twice the price of 1 lb., and for 3 lbs. deduct 5c from three times the price of 1 lb. To get the price of $\frac{1}{2}$ peck add 10c to half the peck price, and for $\frac{1}{2}$ bushel add 25c to half the bushel price. One bbl. is 165 lbs. or 11 pecks. For all goods to be sent by mail add 10c per lb. to the prices here given:

	Season.	lb.	Pk.	Bu.	bbl.
Boley's Northern Spy,	Early,	.10	.75	2.30	6.50
Burpee's Superior,	Late,	.10	.75	2.30	6.50
Chas. Downing,	Early,	.10	.70	2.30	6.50
Dandy,	Late,	.10	.75	2.30	6.50
Early Market,	Early,	.10	.75	2.30	6.50
Early Puritan,	Early,	.10	.70	2.25	6.00
Early Sunrise,	Early,	.10	.65	2.00	5.50
Gen. Sheridan,	Medium,	.10	.70	2.25	6.00
Hampden Beauty,	Early,	.10	.65	2.00	5.50
Lee's Favorite,	Early,	.10	.70	2.25	6.15
Minister,	Early,	.10	.70	2.25	6.15
New Queen,	Early,	.10	.70	2.25	6.15
Polaris,	Early,	.10	.70	2.25	6.00
Rural New Yorker No. 2,	Medium,	.10	.75	2.25	6.15
White Seedling,	Late,	.10	.65	2.00	5.00

THE WORLD'S COLUMBIA EXPOSITION.

TO BE HELD AT CHICAGO IN 1893.

The Crowning Event of the Nineteenth Century.



The Western World, Illustrated.

PUBLISHED QUARTERLY AT CHICAGO.

Will contain everything of interest connected with the GREATEST WORLD'S FAIR. A full page cut of the proposed buildings to cost \$3,000,000, occupies the front page of the January issue; it also gives a full description of this, and many other wonderful structures. Besides the \$15,000,000 which the City of Chicago raise to be expended in this way, immense sums will be expended by the Government, each State and Territory as well as every civilized Nation on Earth. An army of men are already engaged upon the preparatory work.

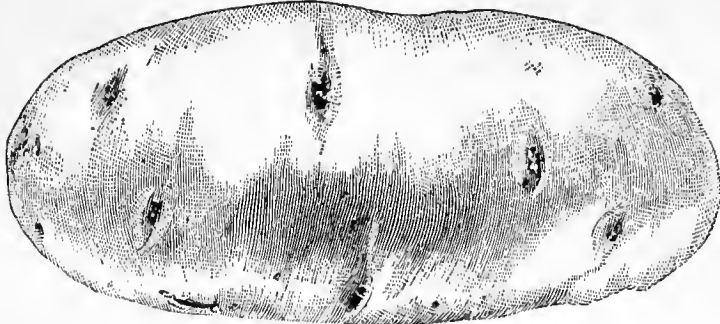
The World's Fair City.

Within the present century Chicago has sprung up from a wild prairie to a large and prosperous City. Twenty years ago the great city was leveled to the ground by the most destructive fire the world has ever known. It has been re-built as if by magic, and is now ten times larger than at the time of the fire. A most interesting sketch of this most wonderful city, with illustrations at different periods from the time it contained a single house, to the present, will be found in THE WESTERN WORLD. This publication also gives valuable information and descriptions of all interesting Scenery, accounts of all Government Lands subject to the various forms of entry, and a vast amount of miscellaneous matter. Later on it will give a directory of Chicago, which will be of great value to those who wish to visit the WORLD'S FAIR, and want to be provided with a place to stop.

Subscription 25 cents a year. Copy FREE for Club of FOUR Subscribers, 8 cents additional for postage to Foreign Countries. Postage stamps taken.

If your Newsdealer does not have it, send 10 cents for sample copy and 100-page clubbing Catalogue. Address,

THE WESTERN WORLD, Chicago, Ill.



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BURPEE'S SUPERIOR.

BURPEE'S SUPERIOR.—This is a late white sort of quite model shape. Surface very smooth, eyes level with surface; is oblong, like White Star, but not so slender. Is likely to become a leading main crop variety; claimed to surpass the Burbank or White Star in every particular.

157 VARIETIES.—In the following list of varieties will be found many standard as well as new sorts for you to make a selection from. I have not over five barrels of a kind of any on this list. Prices—15c. per lb.; 3 lbs. for 30c.; $\frac{1}{2}$ peck 50c.; 1 peck 75c.; $\frac{1}{2}$ bushel \$1.25; 1 bushel, \$2.25. If by mail add 10c. per lb. extra.

Alexander's No. 1, Alexander's Prolific, Albino, American Giant, Ash Leaf Kidney.

Baker's Imperial, Barstow, Belle, Black Neshannock, Blue Point, Bonanza, Boston Market, Brownell's 31, Brownell's 55, Brownell's Best, Burbank, Burrough's Garfield.

Calico, Cambridge Prolific, Cayuga, Cheeseman's Seedling, Chicago Gem, Chicago Market, Clark's No. 1, Collum's Superb, Corliss' Matchless, Cow Horn, Crane's June Eating, Crane's Extra Keeper, Crimson Beauty, Crown Jewel.

Dakota Red, Dakota White, Delaware, Dictator, Duchess.

Early Dawn, Early Durham, Early Essex, Early Gem, Early Harvest, Early Maine, Early Mayflower, Early New Zealand, Early Ohio, Early Pearl, Early Rose, Early Standard, Early White Prize, Empire State, Eno's Seedling, Everitt.

Farmer's Seedling, Fillbasket, Finch's Perfection, Fluke, French Kidney.

G. H. Price, Gen. Logan, Gen. McClellan, Golden Ball, Golden Flesh, Golden Kidney, Green Mountain, Great Eastern, Grange.

Halle's Peachblow, Hemlock.

Irish Cup.

Jas. G. Blaine, Jas. Vick, Jerusalem, Jones' Prizetaker, Junkis.

King's Excelsior, Knopp's Snowbank.

Landreth's Garfield, Lombard, Long Mercer.

Mammoth Pearl, Marshall, Mitchell's Seedling, Mooer's Dakota Seedling, Mormon, Morning Star, Murry, Mrs. Cleveland.

National, Nevada White, New Champion, New York Champion, Newton's Seedling, Nigger Toe, Nott's Victor, North Pole.

Old Long Pinkeye, Old Round Pinkeye, Ontario, Orange Co. White.

Parsons' Prolific, Peachblow, Pearl of Savoy, Perfect Gem, Peruvian, Prairie Farmer, Pride of Lisbon, Pride of the West, Prince Albert, Prince Edw. I. Rose, Pride of the Field, Princess, Pootatuck, Potentate, Putnam, Putnam's New Rose.

Queen of the Roses, Queen of the Valley.

Red Lady Finger, Red Snowflake, Red Star, Ricker's Graft, Rhinebeck, Roanoke, Rochester Favorite, Rodolphus Seedling, Rose's Beauty of Beauties, Rose's Invincible, Rose's No. 74, Rosy Morn, Rubicund, Rural Buttercup, Rural Blush.

Salt Lake Queen, Sealfoot, Seneca Beauty, Seneca Red Jacket, Shattuck's Kidney, Silver Skin, Snowflake, Spalding, St. Patrick, Stanton, State of Maine, Storr's Seedling, Stray Beauty, Summit, Sun-Lit Star, Sylan.

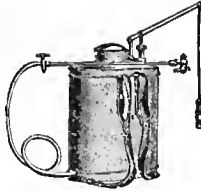
Tilden, Thorburn, Thunderbolt, Tunix.

Vick's Extra Early.

Watson's Seedling, White Flower, White Orange, White Sport.

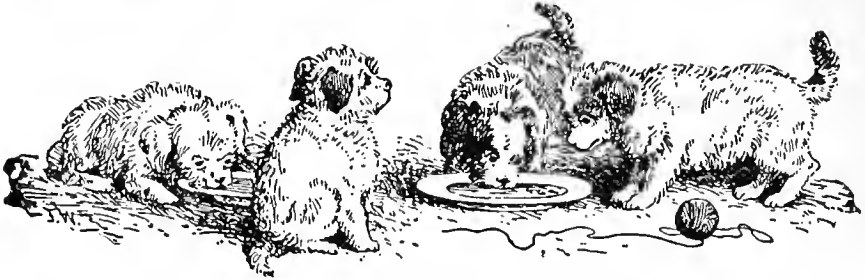
BETTER THAN EVER.

If you are at all interested in the cultivation of Fruits, Flowers or Vegetables, read the **FARM and VINEYARD** and American Gardeners' ASSISTANT, published at ERIE, PA., at 50 cents a year. Any person mentioning this Manual and sending 25 cents, will receive the paper a year. All grape and small fruit growers take it. Advertising rates reasonable and given on application. Write at once to **FARM and VINEYARD, ERIE, PA.**



SPRAY YOUR FRUIT TREES AND VINES.

Wormy Fruit and Leaf Blight of Apples, Pears, Cherries, Plum Curculia prevented by spraying with the **EXCELSIOR SPRAY PUMP, GRAPE and POTATO ROT** prevented by using **EXCELSIOR KNAPSACK SPRAYER**; also injurious insects which infest Currants, Gooseberries, Raspberries and Strawberries. **PERFECT FRUIT ALWAYS SELLS AT GOOD PRICES.** Catalogue showing all injurious insects to fruits mailed free. Large stock of Fruit Trees, Vines and Berry Plants at **Bottom Prices.** Address, **WM. STAHL, Quincy, Illinois.**



WHY ARE SOME PEOPLE ALWAYS LATE ?

They never look ahead nor think. People have been known to wait till planting season, run to the grocery for their seeds, and then repent over it for 12 months, rather than stop and think what they will want for the garden. **VICK'S SEEDS** never disappoint, is the verdict from the millions who have planted them. If it is Flower or Vegetable Seeds, Plants, Bulbs, or anything in this line, **MAKE NO MISTAKE** this year, but send 25 cents for **Vick's Floral Guide**, deduct the 10 cents from first order, it **costs nothing.** This pioneer catalogue contains three colored plates, **Grandest Novelties** ever offered, \$200 in cash premiums to those sending club orders \$1000 cash prizes at one of the State Fairs. Grand offer, chance for all. Made in different shape from ever before; 100 pages 8 1/4 x 10 1/2 inches. **JAMES VICK, SEEDSMAN, Rochester, N. Y.**

THE LEADING WOOD BEAM REVERSIBLE PLOW

THE BELCHER & TAYLOR

AGRICULTURAL TOOL COMPANY,
CHICOPEE FALLS, MASSACHUSETTS.

YANKEE SWIVEL PLOW

FOR BOTH 1 and 2 Horses.

Send for Circulars.

Made of Patent Steeled Metal, with Patent Steel Shifting Lever and Clevis, enabling the Plowman to take any desired width of furrow without stopping his team.

We also make all sizes with **FOOT LATCHES**, so that the Plow is reversed *without taking the hands from the handles.*

We make the 2H and 3H with Jointers.

We have ROLLING COULTERS for all sizes.

THE ONE HORSE PLOWS are so arranged that the HORSE CAN WALK IN THE FURROW while the Plow is taking its regular furrow. The one horse Plow is a great favorite with *Gardeners or Small Farmers.* Shall be pleased to forward our prices and Illustrated Catalogues to all who may send for them. Address

The Belcher & Taylor Agricultural Tool Company,

Box 18,

CHICOPEE FALLS, MASS.

MINISTER.—This is a highly praised first early variety with about the same uneven surface appearance, yet in a different way, as the Northern Spy. The great claim set forth for this variety is, its excellent eating qualities long before it is ripe, which will permit of its being an early market sort. It is a rather flat tuber and is higher colored than the New Queen. My stock in this case, as with about all the varieties I have of recent introduction, is to be depended upon for its purity, as I had it at first direct from the introducer.

HAMPDEN BEAUTY.—A white very early sort, very closely resembling the Puritan in general appearance, only a little more blocky in form. This is growing fast in popularity with the farmers of this valley.

POLARIS.—Another very early white variety, resembling the Early Puritan and Hampden Beauty, except that it is rather longer than the latter. This is highly praised by all who try it.

GEN. SHERIDAN.—A medium late sort of great productiveness, resembling the Monroe Co-Prize in appearance yet distinct from that kind.

RURAL NEW YORKER No 2.—This variety is well illustrated by the cut of Chas. Downing on the first page of cover. Mixed with the Downing in a box it would take one pretty familiar with the two varieties to separate them, yet in reality they are as different as two varieties can be. This is medium in season. Has a very sparse top which is against it on account of bugs attacking it when they will not bushy, full vines. Stalks and blossoms purplish. It is a very distinct variety and one over which there has been much ado made. It is reported a yield of over 1000 bushels per acre on the experimental grounds of the originator. Adapted to close planting on account of its vines.

EARLY MARKET.—This I consider one of my best first early varieties. It belongs to the Ohio class and resembles closely in appearance the Early Ohio, Ohio Jr., Crown Jewel and several others, each varying in color or some other little detail. In some soils I find these sorts succumb to attacks of scab before others do, which may bar them out with some growers, but where they will do well they will give great satisfaction.

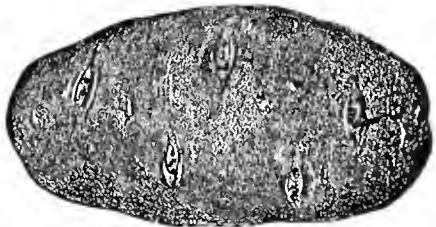
TRIUMPH.—A round red first early potato, said to be very popular in the South and in the early New York market. It is a remarkable keeper. Prices the same as for White Seedling.

CHAS. DOWNING.—This is the variety illustrated on the first page of cover and is about as handsome in form as most people care to see. The eyes are very few in number and are perfectly level with the surface. The quality is equal that of the old Snowflake, which means that it is perfection itself. It is quite early but rather doubtful as a yielder. In some places it seems to yield very heavily and in others quite the reverse. It sets a large number of tubers. Think that perhaps it yields better on a heavy soil than on sandy land.

EARLY SUNRISE.—A popular first early sort, very light red in color and prime in quality. Shape about the same as Early Puritan.

EARLY PURITAN.—This is a splendid very early white potato. A seedling of Beauty of Hebron. It is doing well with me and I hear only favorable reports of it from all quarters. It will pay you well to try this sort if searching for the best: it may just fill your bill.

RECENT INTRODUCTIONS.—Badger State Peach-blow, Ben. Harrison, Bill Nye, Brownell's Winner, Burpee's Extra Early, Cream City, Dreer's Standard, Early Minnesota, Faust's 1889, Golden Beauty, Harbinger, Ideal (Crawford's), People's, Pride of the West, Pride of Wisconsin, Rising Sun, Six Week's Market, Vick's Perfection. Prices for the above eighteen novelties 40c. per lb. by mail, or 3 lbs. for \$1.00.



EARLY PURITAN.

500 VARIETIES.

I have all the way from a few pounds to a bushel of a kind of over 500 varieties, to name which would take up too much space here. But the list includes about all the varieties you can mention, and if you are looking for a collection for any purpose I can supply you. This list includes blue, black, purple, red, spotted, striped, blotched, and all the rest for color, and all shapes and types of potatoes, including many Kidney potatoes. If you want to grow a collection of as different appearing potatoes as you can find for exhibition purposes, I can fit you out.

Prices 25c per lb. by freight or express, and 35c per lb. by mail. 1 lb. each of 25 varieties, \$5.00, of 50 kinds \$9.00, and of 100 kinds \$17.00.

Darnell's Patent Furrower, Marker and Coverer!

(IMPROVED.)

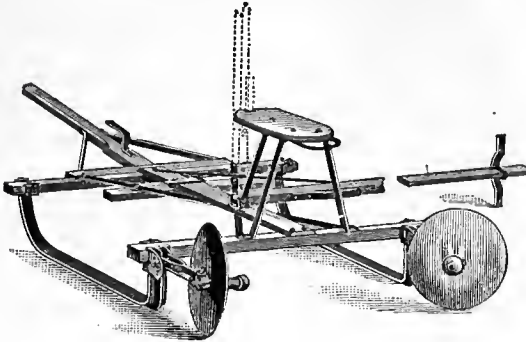
SIX TOOLS IN ONE.

Adjustable to all inequalities of the ground.

RUNS STEADILY,

CANNOT BE CHOKED.

Opens Furrows, Double Furrows, or Ridges. Covers. Cultivates or Plows to and from. Marks any width from 2 1/2 to 5 feet, and from 1 inch to 6 inches deep.



Thousands in Use.

Not an experiment, but a stern reality. Seven (7) years tested and failure unknown.

The thousands in use, and a constantly increasing trade, the best testimony. Guaranteed as represented in every case. Pays for itself in one season in time and labor saved.

The quality of work done by this implement is unquestionably beyond comparison, to say nothing of the wonderful saving of time and labor.

Open two rows in either hard or soft ground, from a mere mark to six inches deep, and from two to five inches wide, at the same time making a guiding mark for the return. Width and depth of furrow can be regulated in a moment with our patent adjustable arms.

The earth at bottom of furrow is left thoroughly pulverized, making a splendid seed bed.

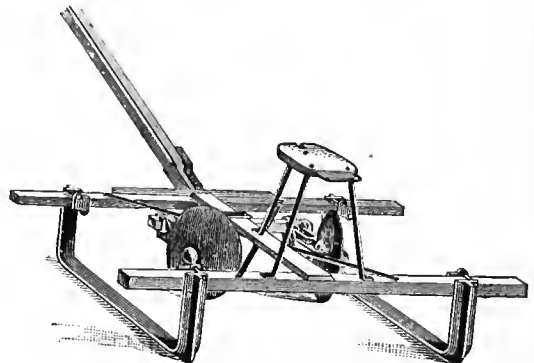
The fact of the discs or furrowers revolving, makes the draft unquestionably light, while choking is impossible.

Cultivates or plows to and from plants in a masterly manner, throwing the dirt around the plant loosely and in a perfectly pulverized condition, the disc being universally acknowledged the greatest pulverizer extant.

Double furrowing or ridging is accomplished with the same speed and accuracy characteristic of this implement, while covering everything that requires covering is done to perfection.

WRITE FOR ILLUSTRATED CATALOGUE AND PRICES.

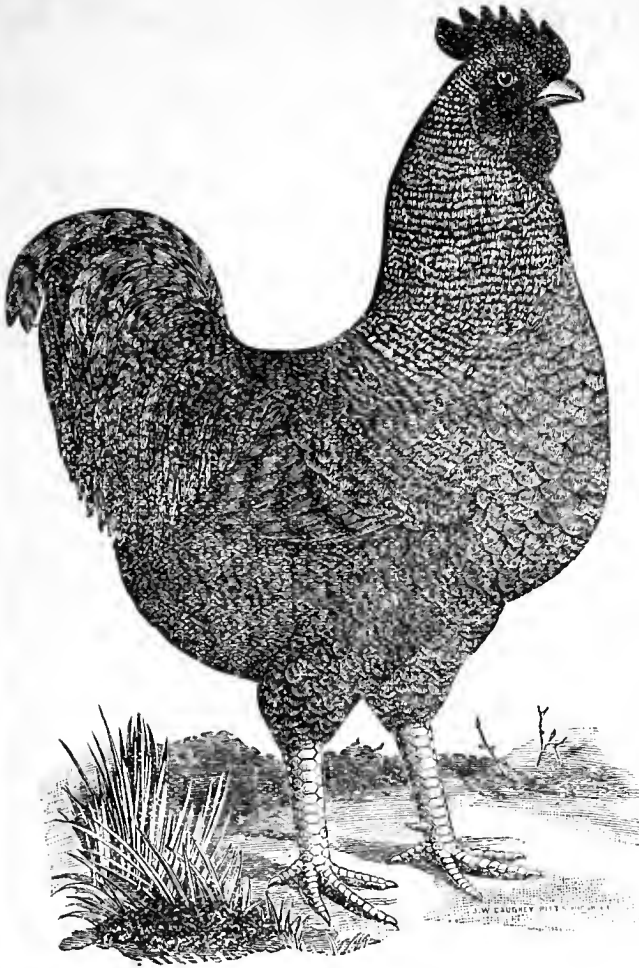
**No Farmer or Trucker
can afford to be
without it.
No Dealers' Stock is
complete with-
out it.**



As a Double Furrower and Coverer.

H. W. DOUGHTEN, Manfr., - Moorestown, Burlington Co., N. J.

❖ POULTRY. ❖



No rural home seems complete without a few fowls about to fill their place in the hearts of the cook and the flower bed. For whatever reason one desires to keep hens it is just as well to keep valuable stock as to have a lot of scrubs about. There is no lack of different breeds to meet the requirements of all. I have a few pens of nice stock, obtained from several of the best sources in the county, and can spare a few sittings this spring at \$1.50 per sitting, of 13 eggs, or two sittings to same address for \$2.50.

My varieties are Plymouth Rock, Light Brahma, Brown Leghorn, and White Wyandotte.

I have other varieties but probably cannot spare any eggs from them this season.

I like Plymouth Rock about as well as any breed for an all-around-fowl. Each breed has its champion and is perhaps superior to other kinds in some particular thing.

Great care will be exercised to produce fertile eggs that will hatch well and give vigorous chicks.

NOTICE THE ADDRESS ON THE WRAPPER.

As I may wish to mail you other printed matter at some time I wish you would notice the address on the wrapper inclosing this Manual to see if it is correct in all details. If it is, that is enough; but if it is not, please drop a postal, stating how it appears and then how it should be. This may insure to you the receipt of further communications that you may be glad to receive.

If you are not at all interested in this Manual and don't ever intend to become a patron of mine, it will be a great favor if you drop me a postal to that effect. This will save me much useless expense.

ORDER POTATOES EARLY.

The importance of ordering your seed potatoes early is especially applicable to this season. I have a larger stock on hand this year than ever before, and yet owing to the scarcity of good stock I expect to be sold short of many varieties very early. I can quote the prices herein only so long as my own stock lasts. If I can procure reliable stock after my own is sold, at no additional cost, I will do so if the customer so desires. Further, a reason for ordering early, is, that as the price of potatoes in the common market is so high that I shall dispose early of any surplus I seem liable to have of any particular variety, rather than run the risk of loss in holding till early potatoes commence to arrive from the South.

1891.

Important Notice to Farmers!

POTATOES FREE FROM SCAB OR ROT.

Do not forget to try the ALLEN FERTILIZER the coming season, especially if your potato crop has been a failure in past seasons.

Try the Potato and Corn Fertilizers, both very successful.

The chemicals and other plant food employed in the compounding make it one of the best Fertilizers now in use.

Success has attended our efforts to produce the **BEST HIGH GRADE FERTILIZER** now upon the market at a **MUCH LESS PRICE.**

It is not our intention or desire to over estimate the value of the Allen Fertilizer. Still we believe that we have a right to speak for it just so far as success has crowned our efforts to produce a Fertilizer that Will prevent Potatoes from Rotting, also Free from Scab.

After years of successive trial by Mr. STONE of Claremont, N. H., Mr. TISDALE of Needham, Mass., Mr. HARDY of Plaistow, N. H., Mr. PARSONS of Lexington, Mass., and many others throughout the New England States, to whom we are at liberty to refer, speak of the Allen Potato Fertilizer in the highest terms, in connection with their crops, while others in their neighborhood using other fertilizers, had little or no success.

You make No Mistake in trying it. Sample Bags free.

**No. 19 Exchange Place, Room 12,
BOSTON, MASS.**

HOME TREATMENT.

A sufferer from disease hears of a physician in a remote city, perhaps in another country, who has effected wonderful cures in cases similar to his own. He expends much money in traveling to the far-off city, and remaining under the treatment of the physician.

In the Compound Oxygen Treatment of Drs. Starkey & Palen, we offer to this sufferer, a remedy which can be sent to his home, and there used by him; thus avoiding the necessity of a long and expensive journey, as well as the discomforts of traveling and change of residence; with the privilege of consultation, by mail free of extra charge.

Our remedial agent has been in use for more than twenty years; thousands of patients have been treated, and more than one thousand physicians have used and recommend it,—very significant facts.

We furnish the statements of hundreds of persons who have been treated and cured. We are permitted to refer to the patients themselves for confirmation and farther information, never publishing any testimonial without the express permission of the patient.

Send for our book of 200 pages. Book sent free, a treatise on Compound Oxygen and its results, with numerous testimonials and records of surprising cures in chronic cases.

Any substance made elsewhere or by others, and called Compound Oxygen, is spurious. Only manufacturers and dispensers of genuine Compound Oxygen,

Drs. Starkey & Palen, 1549 Arch St., Philadelphia, Pa.
120 Sutter St., San Francisco, Cal.
66 Church St., Toronto, Canada.

NEWSPAPERS.

The great value newspapers are to us can hardly be estimated, and while we cannot spend all our time reading, a portion of it can be very profitably spent in this way. I am continually having inquiries from my patrons about newspapers that will meet their wants, and am glad to be of service to my friends in this direction, as I believe it means progress. I call the attention of all interested to this list, which includes the best publications in the several branches represented. My readers will certainly deem it a favor to have in so compact a form the address and brief description given of so many papers, and if writing any of them for sample copy or on other business, please do them and me the favor of mentioning "Howe's Potato Manual." As I see all the publications here listed I feel familiar with them and can advise my friends as to what is likely to meet their wants, and shall be glad to do so if you inclose stamp for reply.

EXPLANATION OF HEAD LINES.—A. Frequency of issue; s-w, semi-weekly; w, weekly; s-m, semi-monthly; m, monthly; q, quarterly.

B. Size of page.

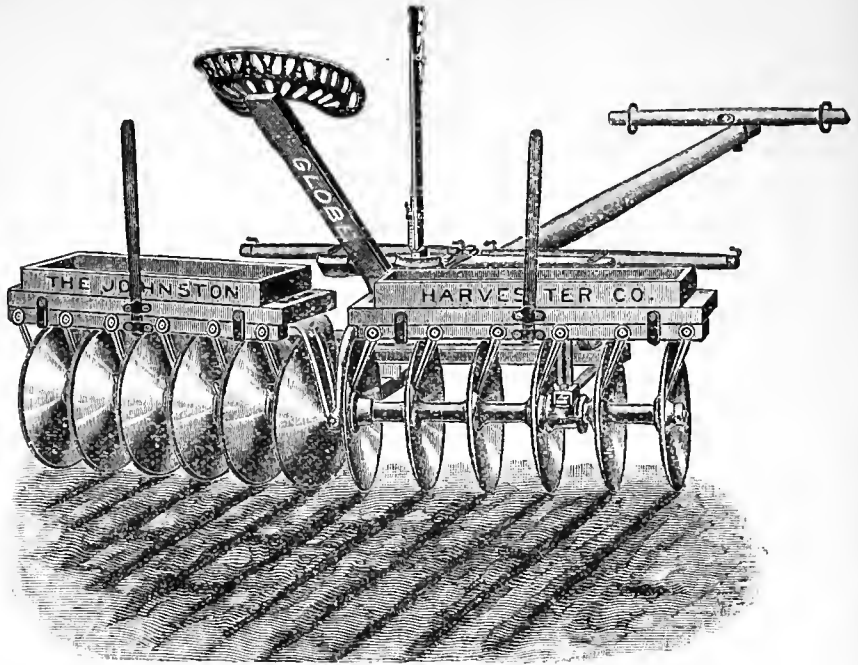
C. What the paper is devoted to.—1, General Agriculture. 2, Poultry. 3, Bees. 4, Horticulture. 5, Live Stock. 6, Family. 7, Floriculture. 8, Miscellaneous. This classification is not at all fine, and is intended only to give a general impression.

D. Number of pages.

E. Publishers price per year.

With all the improvements and facilities of the publisher of to-day, it hardly seems warrantable to send out papers to subscribers with the leaves uncut, yet we find, to our annoyance, the following in our list with this fault, viz.: Nos. 2, 22, 25, 29, 32, 50, 64, 65, 70, 77, 82, and 90.

No.	Name.	Where Published.	A	B	C	D	E
1.	Advertisers' Gazette,	Prospect, Ohio,	m,	6x 9,	8,	20,	\$0.50
2.	Agricultural Epitomist,	Indianapolis, Ind.,	m,	9x12,	1,	16,	.50
3.	American Bee-Keeper,	Jamestown, N. Y.,	m,	6x 9,	3,	20,	.50
4.	American Breeder,	De Kalb, Ill.,	m,	10x14,	5,	20,	1.00
5.	American Cultivator,	Boston, Mass.,	w,	11x16,	1,	16,	2.00
6.	American Dairyman,	New York, N. Y.,	w,	11x14,	5,	8,	1.50
7.	American Farm News,	Akron, Ohio,	m,	11x14,	1-6,	24,	.25
8.	Am. Farm'r, L. S. and P. Raiser,	Chicago, Ill.,	m,	11x16,	1,	20,	.50
9.	American Garden,	New York, N. Y.,	m,	7x10,	4,	100,	2.00
10.	American Poultry Journal,	Chicago, Ill.,	m,	8x11,	2,	36,	1.00
11.	American Poultry Yard,	Hartford, Conn.,	w,	16x22,	2,	4,	1.50
12.	American Rural Home,	Rochester, N. Y.,	w,	16x23,	1-6,	8,	1.00
13.	American Sheep Breeder,	Chicago, Ill.,	m,	9x12,	5,	20,	1.00
14.	American Stock-Keeper,	Boston, Mass.,	w,	11x15,	2-5,	16,	2.00
15.	American Swineherd,	Chicago, Ill.,	m,	8x12,	5,	20,	.50
16.	Badger Farmer,	Oshkosh, Wis.,	m,	9x12,	1,	16,	.50
17.	Bee Keepers' Guide,	Kendallville, Ind.,	m,	6x 9,	3,	32,	.50
18.	Bicycling World,	Boston, Mass.,	w,	9x12,	8,	28,	1.00
19.	Christian Weekly, Illustrated,	New York, N. Y.,	w,	12x16,	6,	16,	2.50
20.	City and Country,	Columbus, O.,	m,	11x15,	6,	16,	1.00
21.	Dairy World,	Chicago, Ill.,	m,	9x12,	5,	24,	1.00
22.	Delaware Farm and Home,	Wilmington, Del.,	w,	13x20,	1-6,	8,	1.00
23.	Drovers' Journal,	Chicago, Ill.,	w,	15x24,	5,		1.50
24.	Fanciers' Journal,	Philadelphia, Pa.,	w,	11x15,	2,	16,	2.50
25.	Fanciers' Review,	Chatham, N. Y.,	m,	10x12,	2,	16,	.35
26.	Farm and Vineyard,	Erie, Pa.,	m,	10x13,	4,	16,	.50
27.	Farm, Field and Stockman,	Chicago, Ill.,	w,	11x15,	1-5,	20,	1.00
28.	Farm Implements,	Minneapolis, Minn.,	m,	10x15,	8,	20,	1.00
29.	Farm Journal,	Richmond, Va.,	m,	10x14,	1-6,	16,	.50
30.	Farm Poultry,	Boston, Mass.,	m,	9x12,	2,	28,	.50
31.	Farm, Stock and Home,	Minneapolis, Minn.,	m,	10x15,	1,	20,	.50
32.	Farmers' Friend,	Mechanicsburg, Pa.,	w,	16x22,	1,	8,	1.25
33.	Farmer's Home,	Dayton, O.,	m,	11x15,	1,	16,	.50
34.	Farmers' Home Journal,	Louisville, Ky.,	w,	17x22,	1-5,	8,	1.50
35.	Farmers' Review,	Chicago, Ill.,	w,	11x16,	1-5,	16,	1.25



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No.	Name.	Where Published.	A	B	C	D	E
36.	Farmers' Voice,	Chicago, Ill.,	w,	10x13,	6,	24,	1.00
37.	Great Divide,	Denver, Col.,	m,	11x15,	6,	20,	1.00
38.	Green's Fruit Grower,	Rochester, N. Y.,	m,	15x23,	4,	8,	.50
39.	Home and Farm,	Louisville, Ky.,	s-m,	17x24,	6-1,	8,	.50
40.	Home, Farm and Factory,	St. Louis, Mo.,	m,	11x15,	6,	12,	.50
41.	Horticultural Art Journal,	Rochester, N. Y.,	m,	8x11,	4,	18,	2.00
42.	Housekeeper,	Minneapolis, Minn.,	s-m,	11x16,	6,	20,	1.00
43.	Housewife,	New York, N. Y.,	m,	11x14,	6,	28,	.50
44.	Indiana Farmer,	Indianapolis, Ind.,	w,	11x17,	1,	6,	1.00
45.	Iowa Farmer and Breeder,	Cedar Rapids, Iowa,	m,	11x14,	1-5,	16,	.50
46.	Jersey Bulletin,	Indianapolis, Ind.,	w,	9x12,	5,	16,	2.00
47.	Live-Stock Indicator,	Kansas City, Mo.,	w,	11x15,	1-5,	16,	1.00
48.	Massachusetts Ploughman,	Boston, Mass.,	w,	18x23,	1,	8,	2.00
49.	Mirror and Farmer,	Manchester, N. H.,	w,	16x24,	1,	8,	1.00
50.	Missouri and Kansas Farmer,	Kansas City, Mo.,	m,	15x22,	6-5,	8,	.25
51.	Montana Farming and S. Journal,	Helena, Montana,	w,	17x24,	5-6,	8,	2.00
52.	National Farm and Fireside,	Washington, D. C.,	w,	9x12,	1,	16,	1.00
53.	National Horse Breeder,	Janesville, Wis.,	s-m,	10x11,	5,	12,	1.00
54.	Nest Egg,	Burlington Junc., Mo.,	m,	6x 8,	2,	32,	.50
55.	New England Fancier,	Danielsonville, Ct.,	m,	8x11,	2,	36,	.50
56.	New England Farmer,	Boston, Mass.,	w,	15x22,	1,	8,	2.00
57.	Northwestern Agriculturist,	Minneapolis, Minn.,	m,	11x16,	1,	48,	1.00
58.	Ohio Fanciers Herald,	Tiffin, O.,	s-m,	8x10,	2,	8,	.25
59.	Ohio Farmer,	Cleveland, O.,	w,	11x16,	1,	20,	1.00
60.	Ohio Poultry Journal,	Dayton, O.,	m,	9x12,	2,	28,	1.00
61.	Ohio Valley Farmer,	Wheeling, W. Va.,	m,	11x15,	1,	16,	.50
62.	Orange County Farmer,	Port Jervis, N. Y.,	w,	17x21,	1,	8,	1.50
63.	Orchard and Garden,	Little Silver, N. J.,	m,	9x12,	4,	20,	.50
64.	Our Rural Homes,	Sturgis, Mich.,	m,	11x15,	6,	16,	.50
65.	Pacific Farmer,	Portland, Oregon,	w,	11x15,	1-6,	16,	2.00
66.	Park's Floral Magazine,	Libonia, Pa.,	m,	6x 9,	7,	16,	.50
67.	Popular Gardening,	Buffalo, N. Y.,	m,	9x12,	4,	30,	1.00
68.	Poultry Bulletin,	New York, N. Y.,	m,	9x12,	2,	28,	1.00
69.	Poultry Chum,	Geneseo, Ill.,	m,	9x12,	2,	12,	.25
70.	Poultry Guide and Friend,	Hammonton, N. J.,	m,	9x12,	2,	8,	.25
71.	Poultry Herald,	St. Paul, Minn.,	m,	9x12,	2,	14,	.50
72.	Poultry Keeper,	Parkeburg, Pa.,	m,	9x12,	2,	16,	.50
73.	Poultry Monthly,	Albany, N. Y.,	m,	9x11,	2,	66,	1.25
74.	Poultry World,	Hartford, Conn.,	m,	9x11,	2,	66,	1.25
75.	Poultryman,	Boston, Mass.,	m,	8x11,	2,	0,	.50
76.	Prairie Farmer,	Chicago, Ill.,	w,	11x16,	1,	16,	1.00
77.	Purdy's Reorder and Evaporator,	Palmyra, N. Y.,	q,	11x14,	4,	16,	.25
78.	Rays of Light,	N. Manchester, Ind.,	m,	11x16,	3-2,	8,	.25
79.	Rural and Poultry World,	Syracuse, N. Y.,	m,	10x13,	1-6,	16,	.50
80.	Rural Long Islander,	Echo, N. Y.,	m,	15x22,	6-1,	8,	.50
81.	Rural New-Yorker,	New York, N. Y.,	w,	11x16,	1,	20,	2.00
82.	Rural and Workman,	Little Rock, Ark.,	w,	11x14,	1,	16,	1.50
83.	Seed Time and Harvest,	La Plume, Pa.,	m,	9x12,	4-6,	16,	.50
84.	South'n Cultivator & Dixie Farm'r,	Atlanta, Ga.,	m,	9x12,	1,	70,	1.00
85.	Southern Farm,	Atlanta, Ga.,	m,	9x12,	1,	68,	1.00
86.	Tennessee Farmer,	Nashville, Tenn.,	w,	11x15,	1-5,	16,	1.50
87.	Turf, Field and Farm,	New York, N. Y.,	w,	13x18,	5,	28,	5.00
88.	Union Farmer,	Rockland, Me.,	m,	10x12,	1,	16,	.25
89.	Vick's Ill. Mo. Magazine,	Rochester, N. Y.,	m,	6x 9,	7,	54,	1.25
90.	Vineyardist,	Pen Yan, N. Y.,	s-m,	13x17,	4,	8,	1.00
91.	W. Agriculturist & L. Stock Jour'l,	Quincy, Ill.,	m,	9x12,	5,	36,	1.10
92.	Western Poultry Journal,	Cedar Rapids, Iowa,	m,	8x11,	2,	12,	.50
93.	W. Sportsman & Live Stock News,	Indianapolis, Ind.,	w,	11x15,	5,	32,	2.00
94.	Western World, Illustrated,	Chicago, Ill.,	q,	11x15,	6,	16,	.25
95.	Canadian L. Stock & Farm Journal,	Toronto, Ont.,	m,	10x12,	5,	36,	1.00

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AMERICAN NEWSPAPER ANNUAL FOR 1890—from N. W. Ayer & Son, Newspaper Advertising Agents, Philadelphia, Pa. Price, \$5.00. I believe this is the largest and best publication of the kind. It certainly is from one of the most reliable advertising firms in the country. This is a complete cyclopædia of everything pertaining to periodical publications of the United States and Canada. Size 7 x 10 inches, 1347 pages. If you have anything to advertise don't do anything about it till writing this firm for their small Manual, which costs 25 cents.

NITRATE OF SODA FOR MANURE,—from the author, Joseph Harris, M. S., Moreton Farm, Mooroe Co., N. Y. A pamphlet, 5 x 8 in., of 96 pages. Price, 10 cents. This essay contains information that may mean the success of many a farmer. It should be read by every one to whom the fertilizer question is of consequence. The author is a famous Seedsman and has written several books on rural topics. I wouldn't be surprised if the ten cents invested in this book paid you 1000 per ct. interest the first year.

ONE OF TAINTOR'S GUIDE BOOKS,—The Connecticut River Route, from New York to White Mountains,—from Taintor Brothers & Co., New York City. Pamphlet 5 x 7 in., 107 pages with a map. Price, 25 cents. It describes a beautiful and fertile valley.

BEE-KEEPING FOR PROFIT,—from the author, Dr. G. L. Tinker of New Philadelphia, Ohio. A pamphlet 5 x 6½ in., of 62 pages. Dr. Tinker is one of the favorite writers of the Bee Journals, and this an expose of his new system, telling how to get the largest yields of comb and extracted honey, is sure to interest any one keeping bees.

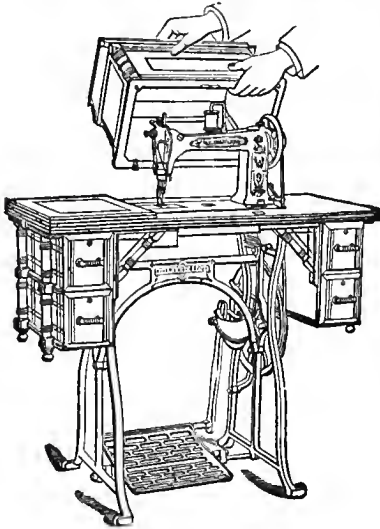
THE BOSTON ALMANAC AND BUSINESS DIRECTORY FOR 1891,—from the publishers, Sampson, Murdock & Co., Boston, Mass. A handy volume 3 x 5 in., 666 pages. Price, \$1.00. Any one contemplating visiting “the Hub,” who is unfamiliar with the city, will find this a guide to them. It contains a good map of Boston.

CAPONS AND CAPONIZING,—a book for every poultry raiser,—from the author, George Q. Dow, North Epping, N. H. A neat volume of 4½ x 7 in., 60 pages. The author is one of the best informed on the subject of which he writes.

CYCLING ART, ENERGY, AND LOCOMOTION,—from the author, Robert P. Scott, Cadiz, Ohio. A beautiful volume 5 x 7½, 305 pages. Profusely illustrated. It describes the history and development of the bicycle and contains much information of interest to wheelmen.

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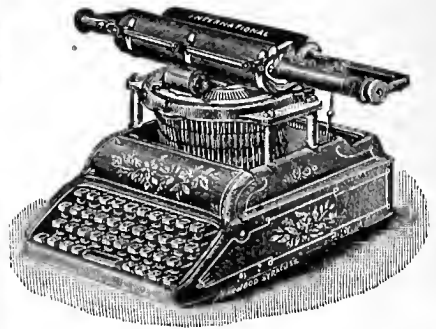


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THE SILO AND SILAGE,—from the author, Prof. A. J. Cook, of Agricultural College, Mich. Pamphlet, 5 x 7 in., 64 pages. Illustrated. Price, 25 cents. It treats of just what the title indicates, and that from the hand of an authority on the subject. The author has sold 25,000 copies of this work in two years.

THE PRESENT AND FUTURE PRODUCTIONS OF FLORIDA,—from the author, S. Sanders Neck, Ocala, Fla. 144 pages, 6 x 9 in. Price, \$1.00. Same, in paper covers, 75 cents. Interesting to those planning a visit or residence in Florida.

BLANCHARD'S POULTRY ACCOUNT BOOK,—from the publisher, Alfred Blanchard, Melrose, Mass. Size, 8 x 10 in.; five year size, 35 pages. Price, \$1.00. To know whether your business is paying or not it is necessary to keep accurate accounts. This form is concise and complete and will give abundant satisfaction to those who try it. Some say poultry is the best paying live stock kept on the farm; others say it is the poorest. By using one of these books it will tell just what it is to you. One year size 30 cts., two year size 50c, and three year size 75c.

HOW I MADE MONEY AT HOME, WITH INCUBATOR, BEES, SILKWORMS, CANARIES, CHICKENS, AND ONE COW; by John's Wife from the publisher Hunter McCulloch, 1828 Reed St., Philadelphia, Pa. Pamphlet 6 x 8 inches, 90 pages, illustrated, price 30c. Written in a graphic and popular style.

THE BEE-KEEPER'S GUIDE, or Manual of the Apiary, from the author, Prof. A. J. Cook, Agricultural College, Mich. 5 x 8 inches, 487 pages, abundantly illustrated, price \$1.50. Prof. Cook is considered one of the masters in the bee world, and this book one of the few masterly works on the subjects. The author has sold 15,000 copies of this work. Any one keeping one or more hives of bees should not be without this work. Rev. L. L. Langstroth, the "father of American Apiculture," says of this book, "I believe yours the best practical work in the world."

THE NEW ONION CULTURE, from the author T. Greiner, La Salle, N. Y. Pamphlet 5 x 8 in. 62 pages illustrated, price 50 cents. The author is the popular "Joseph" of the "Farm and Fireside," and other papers. His writings are vigorous, instructive, and interesting. This book gives the astonishing information of how to raise 2000 bushels of fine onion bulbs on one acre. The method is expensive, but if just what the author says, it certainly is very profitable. The plan is well adapted to the southern grower. It certainly commends itself to our trial in a small way, at first, which may later be adopted on a larger scale.

ONE OF TAINTOR'S GUIDE BOOKS, City of New York, from Taintor Brothers & Co., New York city. Pamphlet 5 x 7 in., 144 pages with map of New York city. If intending to visit the metropolis of our country this will be a valuable guide.

SECRETS OF SUCCESS, from the author H. H. Deweese, Seedsman, Piqua, Ohio, Lock Box 1357, 300 pages, price \$1.25. The book tells how to grow 100 bushels beans, 500 bushels potatoes, and other things in proportion, per acre.

MAPLE SUGAR AND THE SUGAR BUSH, by Prof. A. J. Cook, from the publisher, A. I. Root, Medina, Ohio. Pamphlet 7 x 10 in., 48 pages, fully illustrated, price 40 cents. This is by a very popular author, which with the government bounty recently offered on Maple Sugar, it should find a ready sale among all who are in any way, in a position to make maple sugar.

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THE ROMANCE OF HISTORY—LOST ISRAEL FOUND; or, Jeshurun's Pilgrimage towards Ammi, from Lo-Ammi, from the author Chas. A. L. Totten, M. A., First Lieut. 4th Cavalry, U. S. A., P. O. box 1333, New Haven, Conn. This is number one of the quarterly. "Our Race, its Origin and its Destiny. Devoted to the study of the Saxon Riddle. Antique binding, size 5 x 7 in., 270 pages, price 75 cents. U. S. Supreme Court Justice Bradley says of the book, "It is so new, so strange, so startling."

DRIVES IN NORTHAMPTON AND VICINITY,—from the author, F. N. Kneeland, Northampton, Mass. Size 5 x 9 inches, 72 pages, with maps. A handsome little volume, of much value to any one desiring to become familiar with the drives in this vicinity. The author, the popular cashier of the First National Bank of Northampton, is much interested in the charms of outdoor life and recommends in this book the medicine he himself has taken.

FIRST PRINCIPLES OF AGRICULTURE,—by James Mills, M. A., Prest. of Ontario Agricultural College, and Thos. Shaw, Prof. of Agriculture in same institution; from the publishers, The J. E. Bryant Co., Toronto, Canada; price 40 cents. This is an excellent book covering the subjects of the plant, the soil, tillage, rotation of crops, weeds, insects, feeding, care of farm animals, breeds of stock, dairy, silo, and forests. Illustrated.

JOSHUA'S LONG DAY, AND THE DIAL OF AHAZ.—A scientific vindication and a "Midnight Cry." This is number two of the Quarterly, "Our Race," from the author Lieut. C. A. L. Totten, New Haven, Conn. Antique binding, 5 x 7 in., 235 pages, price 75c. The publisher's circular contains this:—"In this important volume Professor Totten has taken up the cause of Faith upon 'the ancient and original lines,' and by the mathematics and logic of the present age, has placed the two most doubted events in Hebrew history upon a basis far above the reach of mere ridicule. The subject henceforth must be argued in the arena and with authorized weapons,—nor should any one take the *non credo* of another in so grave a matter."

IRRIGATION FOR THE FARM,—from the author A. E. Gipson, Greeley, Colorado. Size 5 x 7 inches, 64 pages, price in paper covers 40c. The author is one of the authorities of this country on the subject on which he writes.

A, B, C, OF AGRICULTURE, from W. S. Powell & Co., Chemical Fertilizer manufacturers, Baltimore, Md., 5½ x 9 inches, 64 pages. This is a trade pamphlet giving so much general information that it is worthy special mention here.

THE RIDDLE OF THE SPHINX,—from the publishers. Industrial Publishing Co., Des Moines, Iowa. Size 6 x 8 inches, 474 pages. A discussion of the economic questions relating to agriculture, land, transportation, money, taxation, and cost of interchange, remedies for existing inequalities, and an outline of the position of agriculture in the industrial world; with a history of leading farm organizations.

LEOAL HYGIENE, OR HOW TO AVOID LITIGATION,—by A. J. Hirschl, of the Iowa Bar, from the publishers, Egbert, Fidler & Chambers, Davenport, Ia. Size 6 x 9 inches, 209 pages, price \$2.00. For all persons who have property or expect to acquire any. Dedicated to the Sage who first said "An ounce of prevention is worth a pound of cure."

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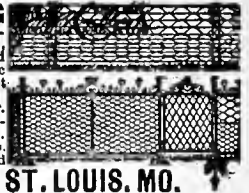
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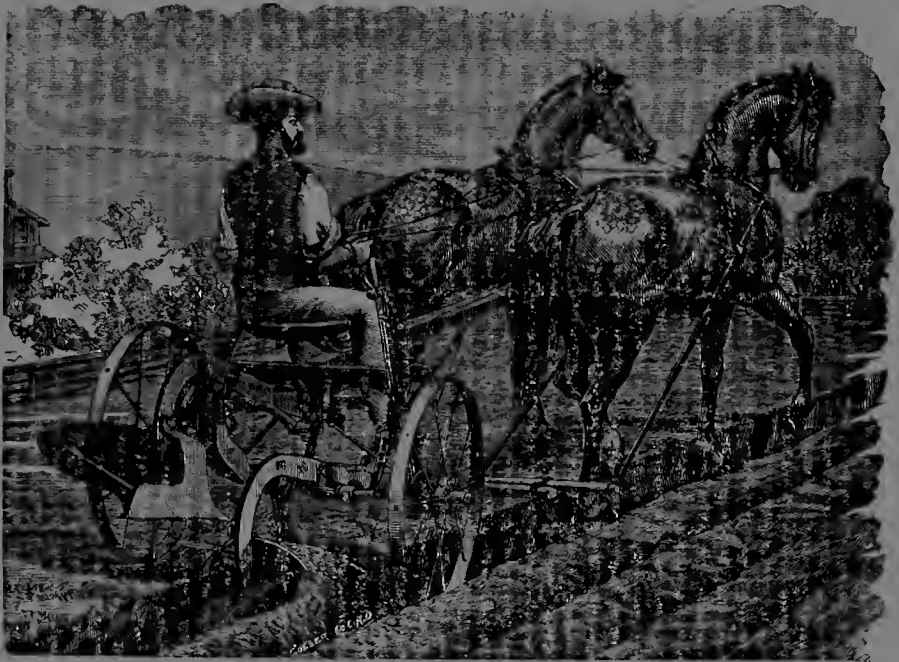
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