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REGULATIONS FOR THE LIBRARY  
OF THE  
**Massachusetts Horticultural Society,**  
ADOPTED 1861.

ARTICLE I.

All Books, Manuscripts, Drawings, Engravings, Paintings, Models, Furniture, and other articles appertaining to the Library, shall be confined to the special care of the Committee on the Library.

ARTICLE II.

When any Books or Publications are added to the Library, a list thereof shall be posted up in the Library Room, and all such additions shall be withheld from circulation for the term of one month.

ARTICLE III.

The following Books of Record shall be kept:—

No. 1. A Catalogue of the Books.

No. 2. A Catalogue of the Manuscripts, Drawings, Engravings, Paintings, Models, and all other articles.

No. 3. A list of all Donations, Bequests, Books, or other articles presented to the Society, with a date thereof, and the name and residence of the donor.

ARTICLE IV.

Rare and costly Books shall not be taken from the Library Room. A list of such works as are to be withheld from circulation shall be made out from time to time by the Library Committee, and placed in the hands of the Librarian.

ARTICLE V.

No more than two volumes shall be taken out by any member at one time, or retained longer than three weeks; and for each volume retained beyond that time a fine of ten cents per week shall be paid by the person so retaining it. And a fraction of a week shall be reckoned as a whole week in computing fines.

ARTICLE VI.

Every Book shall be returned in good order (regard being had to the necessary wear thereof with proper usage), and if any Book shall be lost or injured, the person to whom it stands charged shall, at the election of the Committee on the Library, replace it by a new volume or set, or pay for it at its value to the Society.

ARTICLE VII.

All Books shall be returned to the Library for examination on or before the first Saturday in July, annually, and remain till after the third Saturday of said month, and every person neglecting to return any Book or Books charged to him as herein required, shall pay a fine of twenty cents per week, for every volume so retained. And if at the re-opening of the Library, any Book shall still be unreturned, the person by whom it is retained shall pay for the said Book or set, as provided in Article VI, together with any fines which may have accumulated thereon; and a notice to this effect shall be forthwith mailed to him by the Librarian.

ARTICLE VIII.

No member shall loan a Book to any other person, under the penalty of a fine of \$1.00.

ARTICLE IX.

When a written request shall be left at the Library for a particular Book then out, it shall be retained for the person requiring it, for one week after it shall have been returned.

ARTICLE X.

Every Book shall be numbered in the order which it is arranged in the Books of Record, and also have a copy of the foregoing regulations affixed to it.

PRESENTED

TO THE

Massachusetts Horticultural Society

BY

J. F. Tillinghast, Publisher

1880 - 1883.











JANUARY, 1880.

# Seed. Time and Harvest.



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ISAAC F. TILLINGHAST, Publisher,

LA PLUME, Lackawanna Co., Pa.

CHICAGO BOTANIC GARDEN

2002

DEACIDIFIED



The Latest and Best Work on Gardening.

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# A Manual of Vegetable Plants.

BY ISAAC F. TILLINGHAST.

102 pp. 12 mo., published by the author. Price, finely bound in muslin, 75 cents; paper, 40 cents.

This book, which embraces the results of years of practical experience on the topics of which it treats, has probably received higher and stronger endorsement than any work on Gardening heretofore published in this country. It is not a rehash of other writers' ideas but claims to supply just what others have omitted; or, to dwell particularly full upon subjects on which they have failed to throw sufficient light. The author has endeavored, in its composition, to be as brief and concise as possible, knowing well that in this hurrying age the wheat will be considered more valuable without the chaff than with it.

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# SEED-TIME AND HARVEST.

*"Whatsoever a man soweth that shall he also reap."*

Vol. I.

JANUARY, 1880.

No. 1.



**Clarkia Elegans. New Double, Pure White.**

Our Second Seed Premium. For Description see page 12.



## The Vegetable Garden.

### A Chapter on Cabbages.

As a market crop for farmers who reside within easy driving distance of any one of the thousands of thriving towns or cities which are so plentifully scattered over this country, or who are so situated as to be able to ship their produce by rail or water, there are few, if any, crops that can be made to pay a greater profit on the amount of land, labor and capital involved than a good crop of cabbage. Now that the manufacturing interests have made so great a start all over the land, and the mechanics are all employed at better wages than for a number of years, the demand for cabbages, as well as other market garden crops, is likely to be greatly increased.



EARLY JERSEY WAKEFIELD CABBAGE.

The cabbage plant is a gross feeder and some good soluble plant-food must be supplied to the soil in sufficient quantities to keep it growing thriftily. Do not attempt to grow cabbage in old gardens which have been long in cultivation, if a good, new sod can be obtained. A deep sandy loam seeded to clover and plowed under early in autumn makes the best possible foundation on which to produce a crop the following season with the aid of manure or special fertilizers.

The first point from which failure is likely to come is in the selection of the seed. It is as impossible to harvest a good crop of cabbages from an inferior lot of seeds as it is to produce "figs from thistles." The selection of varieties and time of sowing seeds must depend upon the season of year in which it is most desirable to market the crop.



HENDERSON'S EARLY SUMMER CABBAGE.

The art of successfully growing the plants has been fully given in our new work on "Vegetable Plants," and requires too much space to be repeated here. We will simply say, in this connection, that in order to produce a paying crop, good healthy plants are of prime importance. To produce these, those voracious little flea beetles must be kept off from the beginning. Not only are the plants in danger of being entirely devoured by them while small, but all that are left after having been badly infested by these fleas, are sure to be subsequently attacked by a small white maggot which is the larva of the beetle, and which eats all the small fibers off the roots and so seriously injures the plants that if not killed entirely by them, they are almost sure to become the victims of disease and finished.



NEWARK EARLY FLAT DUTCH CABBAGE.

After setting the plants hoe them often and keep them growing. No plant seems to be benefited more by frequent cultivation than the cabbage. If you have any doubts about your soil being rich enough to produce the best results, drop a handful of finely pulverized hen manure, guano or phosphate around each plant and mix well with the soil by hoeing. After the plants are well



established the only insects that have prov'd very destructive are the White Butterflies which produce the green cabbage-worm, and we are glad to state by reason of parasitic enemies they are yearly diminishing in numbers, so that already they do no damage to large fields and will, no doubt, pass away entirely.



LATE AMERICAN DRUMHEAD.

We have experimented largely with the different kinds, having grown over fifty varieties in a single season, in order to test their comparative qualities. Among these all there are less than a dozen that may be selected to combine all the really valuable points to be found in the whole. Taking these nearly in the order of their earliness, we will proceed to give a short description of a few of them.

*Early Jersey Wakefield.* This, if "true," is unquestionably the best very early cabbage known producing large and solid heads, and is marketable earlier than any other variety which makes what may really be called a head. It is the favorite with all market gardeners around New York, and, in fact wherever tested, is gaining in popularity. The seeds are either sown in September and the plants wintered over in cold-frames for earliest spring use, or, what answers quite as good a purpose, are sown in March in a hot-bed from which they are shifted into a cold-frame about the first of April in this latitude, where they are kept until the weather permits their being set in the field.

*Henderson's Early Summer.* This is a valuable acquisition, quite recently introduced. It closely follows the Wakefield in season



LARGE FLAT DUTCH CABBAGE.

and grows to considerably larger size. It is very sure to make a large sized, solid head for the time of year.

*Newark Early Flat Dutch.* This is the result of a cross between the Early Oxheart and the Large Flat Dutch. It has long been a favorite second early sort with the market gardeners of Long Island and New Jersey. The heads are large, solid, broad and roundish or nearly flat, sometimes slightly conical. It is the best strain of Early Flat Dutch in the market.

*Early Winnigstadt.* This produces very hard cone shaped heads, known in some sections as "sugar-loaf." This variety is probably surer to produce a head under any and all circumstances than any other, and,



PERFECTION DRUMHEAD SAVOY CABBAGE.

if planted on rich soil and given good cultivation, it will produce heads weighing from 10 to 12 pounds, and correspondingly smaller according to the degree of neglect, but every plant produces a head, and always hard, even though no larger than a goose egg. Therefore if your soil is poor or sandy



or your patch likely to become neglected, or if you are uncertain that you can grow cabbage successfully, choose the Winnigstadt.

*Fottler's Early Drumhead.* This is, in season, intermediate between the Winnigstadt and Flat Dutch. No variety within



FOTTLER'S EARLY DRUMHEAD CABBAGE.

my recollection has come so rapidly in public favor as the Fottler. Wherever known it is favorably known. Being two weeks earlier than the Late Flat Dutch it can be put out correspondingly later. If planted early it makes a profitable summer variety. For winter use it may be set out from June 20 to July 10, and for the South correspondingly later. It produces beautiful, large, white, flat heads, frequently attaining a weight of 20 pounds each. We have greatly improved this variety since it came into our hands, and believe that it is, as we have it, the best variety for all purposes known. We have received many very flattering reports concerning its great value from growers in all sections of the Union.

*Perfection Drumhead Savoy.* The Savoy's are among the tenderest and best flavored of all cabbages, but they do not grow quite as large or solid as some other classes. The above is the best and most reliable of its class.

*Large Flat Dutch.* This has for many years been our most popular winter cabbage. It is probably more free from all diseases than any other variety, and is therefore better adapted for southern plant-

ing as it stands the hot sun and summer drouths. To fully mature it should be set, in this latitude, not later than July 1, but in Virginia and New Jersey it is planted until August. Our strain of this variety is from as good seed stock as can be found.

*Late American Drumhead.* This in many respects resembles the above. It is a little more spherical in shape and lighter in color. An excellent late market variety.

*Improved Red Drumhead.* A great improvement upon the old Red Dutch. It is much larger and shorter stemmed. Very fine for pickling.

There are many other varieties in cultivation but the above list includes all the most valuable.

### Growing Cauliflower.

Though the Cauliflower is not, perhaps, as well adapted to the climate of this country as of Europe, experience has shown that it can be profitably grown wherever Cabbages thrive, as the general requirements of the two are similar. A well grown cauliflower makes so tender and delicate a dish that it is highly prized by all classes who can obtain it, and a crop will find a ready sale at really fancy prices in any town or city among the wealthier classes who do not mind the expense in obtaining so desirable an article of food.

The seeds for the earliest crop are usually sown in a hot-bed in early spring. The plants are treated precisely the same as cabbage. For a later crop the plants are not set in the field until June or July as they generally make a better growth after the hot summer weather is past.

Cauliflowers require a rich moist loam. In the old countries where they are so extensively cultivated, beds or ridges are thrown up on the low lands and the ditches between the beds are kept filled with water. During the hot and dry months of summer the water is frequently poured upon and around the plants. With this treatment cauliflower of the largest size and finest quality are produced which readily sell at very remunerative prices.

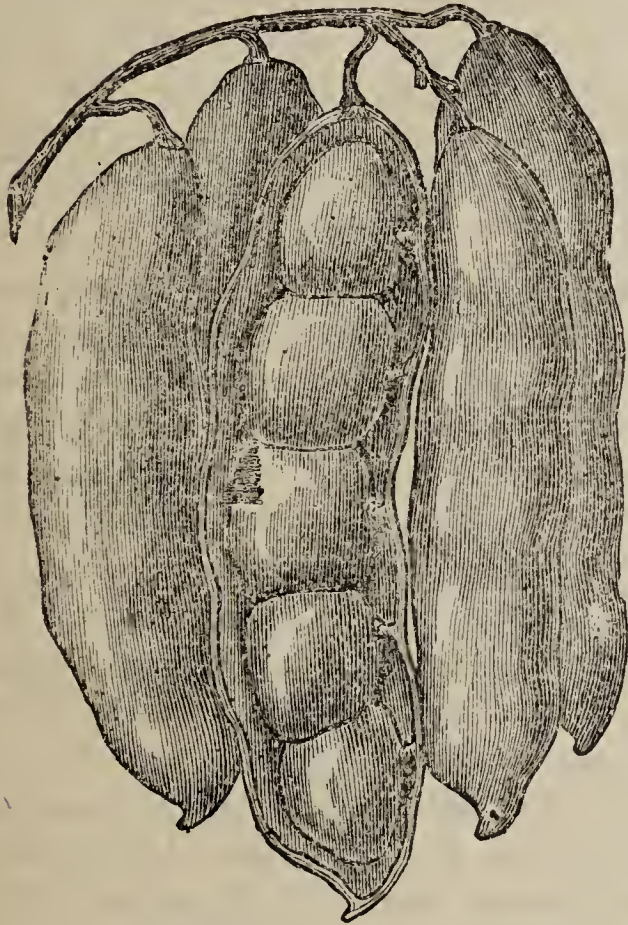
*Varieties:* The *Early Dwarf Erfurt*, is the earliest. It produces fine heads and is



a favorite for first sowing. The *Lackawanna* is a new variety of great excellence coming in soon after the Erfurt. It produces elegant, large, solid heads, which are the admiration of all. The seeds are scarce and valuable. *Early London* is an old standard English variety. *Nonpareil* and *Lenormand's Short Stemmed*, are mainly used for the later crops.

### Beans and Bean Weevils.

BEANS are not to be planted until the soil becomes warm in spring. In rich gardens we prefer sowing them thickly in drills about three feet apart, for the reason that they do better when thick enough to shade each other providing the soil is rich enough



DREER'S IMPROVED LIMA BEAN.

to sustain them. For field cultivation they are usually planted in hills as they are more easily kept free from weeds.

The greatest enemy the bean crop has ever had in this country is the Bean Weevil which has quite recently made its appearance with us. It somewhat resembles the old Pea Weevil, with which all are familiar, in its appearance and manner of operating. It is however somewhat smaller and much more destructive, as it deposits its eggs in a cluster, which produce frequently more than a dozen larvæ in a single bean. As

beans are more universally used for food in a dry state than peas, this pest is much more damaging in its effects than the pea weevil. The only way to keep it in check or to extirminate it, will be for every planter to use the greatest care in the selection of his seed, and to see that he keeps or plants none that are in the least affected, for it is the weevils that are planted with the seed or that escape from it in the spring that lay the eggs for the next crop. So far as we can observe the beans do not show any indication of being affected when gathered in the fall. They undoubtedly contain the eggs but they are too small to be readily seen by the naked eye. If kept in a warm place during the winter, the weevils will rapidly develop and eat their way out, completely spoiling most of the beans.

We shall experiment by putting various substances such as Gum Camphor, Turpentine, Carbolic Acid &c., in bags with affected seeds this Fall and see if we cannot kill the weevils before they mature. If this fails we shall procure our seed beans from sections not yet infested.

If the Bean Weevil is at work in your locality and you are going to risk planting any seeds which you know are, or possibly may be affected by them, be sure to keep them in tight bags in a cool place so that they will not hatch out until late in the Spring. Then, just before planting, put the beans in a tin pail and pour some hot water over them. We have tried this remedy and know that it will do the work. If all would help fight, few such pests need thrive.

*Varieties.* For early snap sorts *Dwarf Black Wax*, *Jones's Ivory Pod*, and *Ferry's Golden Wax* are the tenderest and best. The *Large White Marrowfat* is unexcelled as a dry cooking sort. The *Mexican Tree Bean* was sent to us last season. It is a very productive variety, a single bean planted in a place branching out and producing a full hill.

Of Pole varieties nothing has ever been tried by us which produces equal to the *Kentucky Wonder*. It has very long thick pods which are remarkably well filled. *Dreer's Improved Lima* continues to give satisfaction, though it is rather too late to perfectly mature for seed in this latitude.



## The Potato.

### NOTES ON THE NEWER VARIETIES.

History informs us that the Potato was first found growing in the wilds of South America early in the seventeenth century, but it was by no means in the state of perfection in which it may be seen upon our dinner tables to-day. So slow was its improvement that nearly a century elapsed before it was considered of any value as an article of food. When propagated from tubers in the usual manner, its natural tendency is to deteriorate and revert to its primitive condition. The causes which produce deterioration are a continual planting upon the same soil, or in the same locality, without changing seed, and imperfect cultivation. The remedy is to procure not only new varieties, recently produced from the seed-ball, but to select such new ones as have the greatest amount of natural vigor. While it is imperative that we select a newly originated variety, to produce the best results, it must be remembered that the simple fact of its being new is by no means a guarantee that it is valuable. Probably not more than one in five hundred of chance seedlings produced from balls taken at random from a field will be of more value than varieties which already exist. To produce varieties which have intrinsic value enough to enable them to stand the trial and become general favorites it is necessary to select as parents our best and most vigorous varieties, and fertilize the blossoms with pollen from other vigorous varieties which possess different but equally valuable characteristics. By carefully hybridizing them in this manner and giving the young seedlings the best of soil and cultivation, some splendid varieties have been produced within the last few years. Careful management is required to overcome the tendency toward deterioration, but in spite of it improvements are being made. We make it a rule to test all the new varieties which come out, and grow annually about one hundred kinds in our

trial grounds. Many which come to us well recommended fail to show any points of real excellence, but we occasionally get hold of one which possesses actual merit. The Early and Late Rose were great improvements over any existing sorts at the time of their introduction, but we have better ones now.

*The Early Ohio* has proved to be a week or ten days earlier than the Early Rose, and of at least as good quality. It is much the same in color, shorter and thicker in shape, and produces a large yield of good sized marketable tubers.

*The Early Success*; one of the newest and most valuable, as it is decidedly the earliest variety yet introduced by Mr. E. S. Brownell, of Vermont. It is a smooth, round, white potato, in appearance somewhat resembling the Alpha, and fully as early as that variety, but greatly superior to it in productiveness and size.

*The Mammoth Pearl* is one of the most extraordinary varieties that ever came into our possession. Compared with many others, it is, in season, early, yet not sufficiently early to come into competition with the above. The vines are, without exception, the most rampant and strong growing of any variety we have ever grown, and the tubers are fully in keeping in number and size. Potato Bugs have no chance at all. The vines come up so strong and grow so fast and thrifty that they make no perceptible impression upon them. The tubers are large, smooth, round and white. They cook handsomely.

*The Beauty of Hebron*. This new variety has been thoroughly tested by some of our best potato growers and very favorably regarded wherever known. It was first claimed to be as early as the Early Rose, but we find it ripens somewhat earlier. It will undoubtedly become a general favorite as it will fill the place of the early Rose as that variety ceases to become productive.

*The Burbank Seedling*. A seedling of the Early Rose, splendid in quality, perfect in



form, and in productiveness unsurpassed. It has but few eyes which are sunk but little below the surface. Its season is nearly the same as Late Rose which makes it very desirable as a field potato. With its great yield it has never shown any signs of rot and is destined to become very popular.

*The La Plume Triumph.* This is not the potato which has been advertised as Bliss's Triumph, but a very superior variety which has never been offered in any other catalogue than ours. Not one in a hundred of the varieties sent to us for trial will equal this. It is medium early, grows compactly in the hills, is very productive, surpassing in this respect many which are more widely celebrated. The tubers are handsome in shape and appearance, being oblong, slightly flattened, quite pointed, and of a beautiful bright red color. The quality is most excellent. Another year's trial has greatly strengthened the very favorable opinion which we have had of this variety since making its acquaintance.

*The Superior.* Originated by Mr. Brownell, of Vermont. Its tubers are medium to large, elongated oval in shape, of a peculiar dark copper color, very uniform and handsome in appearance, skin very fine and smooth; eyes few and small. Its season is only medium late, yet it retains its excellent quality until very late in spring.

*The Dunmore.* An excellent, large, round white variety which has given us the greatest of satisfaction. Only good reports have been received concerning it.

*Genesee Co. King.* A very robust, strong growing, large yielding variety of recent introduction. It is a light pink in color resembling the old round Peachblow in shape and quality, but is two weeks earlier in ripening and grows more compactly in the hill.

Among the newest varieties on our trial grounds last season, no one seemed more promising than the *Early Williston*, sent us by Mr. Brownell of Vermont. Should it do as well another season we shall offer it for sale. For prices of Seed Potatoes see our Advertising pages.

## Seed-Time and Harvest

*Clubbing List for 1879 and 1880.*

FOR MANY YEARS we have taken subscriptions for the principal Journals of the United States, and especially those devoted to Agriculture and Horticulture. By taking large numbers of subscriptions we are enabled to get publishers' lowest rates, and when we are enabled to do so we give our patrons the benefit of the deduction. In such cases our prices are frequently lower than any one could possibly secure except through a large club like ours. On some papers we can give no discount as the publishers have no clubbing terms, but we put them on our list because we think they are well worth all they cost. We give below a list of standard publications for which we receive subscriptions and the price of each. We club SEED-TIME AND HARVEST with any of them for 25 Cents additional to the price in the second column.

Please see if there is anything in this List that you need, and, if so, we should be glad to receive your order.

☞ THE FIRST COLUMN gives the Publishers' price, and the *Second Column* our price. ☞

American Agriculturist, M.....	\$1 50	\$1 25
American Cultivator, W.....	2 00	1 75
American Bee Journal, M.....	1 50	1 25
American Rural Home, W.....	1 50	1 40
Atlantic Monthly.....	4 00	3 50
Coleman's Rural World, W.....	1 50	1 40
Country Gentleman, W.....	2 50	2 25
Demorest's Monthly.....	2 50	2 00
Demorest's Monthly with Premium.....	3 00	2 50
Farm Journal, M. (Philadelphia).....	50	35
Fireside Companion, W.....	3 00	2 60
Floral Cabinet, with Premium, M.....	1 30	1 25
Forest and Stream, W.....	4 00	3 50
Fruit Recorder M.....	1 00	75
Gardener's Monthly and Horticulturist.....	2 10	1 75
Harper's Magazine, M.....	4 00	3 40
Harper's Weekly, and Bazar, each.....	4 00	3 60
Harper's YOUNG PEOPLE,.....		1 50
Hall's Journal of Health, M.....	1 50	1 30
Herald of Health, M.....	1 00	90
Household, (Vt.) M.....	1 10	80
Home and Farm, S. M. See Special Offer.....	50	50
Lippincott's Magazine, M.....	4 00	3 50
New England Farmer, W.....	2 15	2 00
New York Herald, W.....	1 00	09
New York Evening Post, W.....	1 50	1 40
New York Ledger, W.....	3 00	2 50
New York Weekly, W.....	3 00	2 50
New York Witness, W.....	1 50	1 40
New York Tribune, W.....	2 00	1 25
Park's Floral Gazette, M.....	50	50
Peterson's Magazine, M.....	2 00	1 60
Phrenological Journal, M.....	2 00	1 75
Poultry World, M.....	1 25	1 00
Prairie Farmer, W.....	2 00	1 75
Rural New Yorker W.....	2 00	1 90
Scientific American, W.....	3 20	2 90
St. Nicholas, M.....	3 00	2 75
Scribner's Monthly.....	4 00	3 60
Scientific News, M.....	1 00	85
Saturday Evening Post, W.....	2 00	1 50
Vick's Magazine, M.....	1 25	1 15
Wide Awake, M.....	2 00	1 75

ANY NEWSPAPER OR MAGAZINE

Not on the above list can also be procured at *Club Rates* by applying to

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LA PLUME, Lack'a Co., Pa.



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agate line for less space.

Address all communications,  
SEED-TIME AND HARVEST.  
LA PLUME, LACKAWANNA CO., PA.

JANUARY, 1880.

## SALUTATORY.

KIND FRIENDS: Allow us to present you with this, the first number of SEED-TIME AND HARVEST, and to tell you what it is and what we intend to make it.

For the past five years we have been engaged in the production and sale of Vegetable and Flower Seeds, Plants, &c., and have published annually a Descriptive Catalogue in which we have tried to furnish instruction concerning the best varieties, and best methods of cultivation of the various kinds of flowers and vegetables. But the space at our command through this medium proved so limited that we feared but little good could ever arise from it. Besides it was necessary to scatter a large number of catalogues indiscriminately among many people not at all interested in order to hit a few who were benefitted by its reception, thus making for ourselves a large cost in order to receive a small gain. To avoid all this and yet favor those of our friends whom we are sure will appreciate a publication of this kind, we have decided upon issuing a quarterly magazine which we shall offer upon so liberal terms that no person at all interested in it can afford to be without it. In fact it will be our aim to return a greater value for the amount charged for this journal than can be obtained elsewhere, and, to

this end, in addition to striving to make every number worth the full year's subscription price in practical information, we propose the adoption of a new plan of premiums to subscribers, which will consist of a packet of Seeds of a *New and Valuable* Flower or Vegetable to go with each number as a supplement. These premium seeds will consist of *choice and rare Novelties* and varieties which have proved to be of much more than ordinary value. Thus the cash value of the four packets of Premium Seeds which each subscriber will receive during the year will be at least fully equal to the whole amount paid by the subscriber for both seeds and paper.

The article which we have selected to go with this, the first number of SEED-TIME AND HARVEST, is a packet of our improved strain of Fottler's Early Drumhead Cabbage, a description and cut of which we give elsewhere as also an expression of opinion of persons who have tried it in various localities. Our second number will be accompanied by a packet of New Double White Clarkia which is shown upon our first page.

Now, Friends, please bear in mind that it will be necessary for us to receive your support and co-operation to enable us to successfully carry out this undertaking. We are willing to bestow upon this publication, for a year, at least, all and more than we shall receive on its account. Therefore it lies with you to say how valuable or interesting it shall be made. The moment that our income from it will permit of it, we promise to enlarge and improve it accordingly, and further, we will issue it monthly instead of quarterly if you will permit us to do so. By way of clubbing we offer three copies for the price of two, thus enabling any one who will to obtain subscriptions from a couple of friends or neighbors and receive a copy free for his trouble. Several special offers are also made on the first Advertising page which are certainly liberal. Now for business. Whom shall we first serve?

## ABOUT OUR SEED PREMIUMS.

AFTER reading the above article you will understand our plan of premiums. Now a few words regarding our method of obtaining these seeds. In connection with our



Seed Farms we have an experimental plot in which everything that is sent to us from any part of the country, or from foreign countries, is planted for trial. There are undoubtedly scattered over this country thousands of varieties of fruits and vegetables, which have sprung from crosses or from chance seedlings, that possess really valuable sterling qualities which have perhaps given them local celebrity, but which are entirely unknown to the world at large. As an example of this, we may mention the Hubbard Squash, undoubtedly the best American winter variety, which was known and cultivated for nearly ninety years by an old lady before being brought to the notice of Mr. Gregory, who introduced it to the public as a new and valuable variety, and such it has proved to be.

In this connection we earnestly urge our friends everywhere to make an investigation and see if there are not some valuable varieties in their hands which are not to be found in the Seed Catalogues, and probably unknown except in their locality. Should you know of such, please have the kindness to send us a small packet of it together with whatever information you may possess concerning it. We will plant all such in our trial grounds, and if, upon comparison, any prove to be new and valuable, we will propagate it and send it as a premium to our subscribers.

Any country resident, village mechanic, or farmer who neglects the planting and careful cultivation of a Kitchen Garden will find before the year passes, not only that his table is much more meagerly supplied with articles which go to make up a healthful and enjoyable meal, but that his living, as poor as it is, costs him much more than it would had he the luxuries of a good garden to draw upon at will.

As an aid to the possession of such a desirable acquisition as a first class garden we propose to occupy considerable space in noting facts which have been gathered from our own experience concerning the best varieties, methods of cultivation, destruction of insects, and such general items as will help any person to make a success of gardening.

**About our Location.** Two years ago we requested our correspondents to address us at Factoryville instead of La Plume post-office, which had for some time previous been our address. We now again ask them to address us at La Plume. As this change may lead some to suppose that we belong to the itinerancy, or at least are of vacillating habits, and go wandering around the country with our establishment, we beg to make a statement that all may understand the matter. The two above named places, although in different counties, are only a fraction over one mile apart. Our seed-farms are, and always have been, located between these two places, but much nearer La Plume. Two years since we opened an office at Factoryville, but failing to realize all the benefits we anticipated, shall discontinue it hereafter. Still all mail matter coming to Factoryville will continue to reach us promptly. La Plume used to be in Luzerne County. Now, although it still reposes in the same sunny spot, it is found to be in Lackawanna County. This has been brought about by a division of old Luzerne, and the establishment of a new county called Lackawanna, whose county-seat is Scranton, which is in the heart of the anthracite coal regions of Pennsylvania. La Plume is ten miles north of Scranton on the Delaware Lacka'a and Western R. R.

**How to send Money.** Sums under one dollar may be sent in a common letter. All larger sums should be by Registered Letter, Bank Check or Draft, or P. O. Money Order drawn on Factoryville or Scranton. If currency cannot be obtained, please remit fractions of a dollar in 1c. and 3c. postage stamps.

**Our Next Number.** We hope that our friends will make some allowance for this number as it is the first and its production has been accompanied by many disadvantages. We hope to improve it as it grows older. We now have in preparation a large number of new engravings to be used in illustrating our future numbers.

Our next number will contain a large amount of descriptive matter concerning the cultivation of vegetables, including a valuable article on growing squashes, with descriptions of the best varieties. We intend to fill each number of SEED-TIME AND HARVEST with valuable, practical, *original* matter, and invite contributions upon any subject which will be interesting to our readers.



## The Flower Garden.

### Sowing Fine Seeds.

Great judgment is required to sow all kinds of seeds in a manner that shall crown our efforts with success. The soil must be in proper condition, neither too wet nor too dry, too cold nor too warm. The proper depth for covering will depend upon the size or fineness of the seeds. Very small seeds, such as Petunia, Clarkia, Pinks, etc., are more apt to succeed when scarcely covered at all, provided they can be kept from becoming too dry. We usually sow such directly upon the surface of the bed, gently water them with a very fine spray, and then cover the surface over with a pane of glass, or even a piece of muslin or paper laid directly upon the surface and allowed to remain only until the seeds have sprouted. Asters, Zinnias, Balsams, Portulacas, and others which are styled half-hardy annuals, either require the aid of artificial heat to assist germination, and then are transplanted from the hotbeds to their permanent situations, or else the sowing of them should be deferred until the soil becomes thoroughly warmed,—say the last of May in this latitude. As a general thing most flowers succeed best if first sown in a seed bed, (an old box filled with fine soil will answer first-rate,) and then transplanted, and we advise this method in preference to sowing in the open ground, for several reasons which will readily become apparent to any one who tries it, without our stating them here.



DOUBLE HYBRID PETUNIA.

Of transplanting we shall speak in the future, and we shall strive to give from time to time such directions as will enable even the most inexperienced to plant and cultivate any of these varieties successfully,

yet we would remind the reader of the trite old saying, "Experience is the best teacher."

### Our Hardy Annuals.

ELSEWHERE in this *Jou nai* may be found a list which embraces over one hundred and fifty of the choicest varieties of Flowers known in cultivation. They have been collected from almost every part of the civilized world and require various modes of treatment. None have been added to this list for the purpose of filling in, but all are believed to have some redeeming feature which entitles them to a place in every collection. Yet we realize that the number is so large that it will be impossible for every cultivator to include them all in making up a flower garden. To give an illustration, or even a short description, of each in one issue of SEED-TIME AND HARVEST is simply impossible. We shall therefore make selections from the list and picture and describe them from time to time in succeeding numbers, until those of our readers who will save these numbers will have a volume describing all or most of them, with valuable notes upon their cultivation.



PEONY-FLOWERED ASTER.

Our Hardy Annuals are yearly becoming more generally grown in consequence of their simple culture and the small amount of trouble they give the amateur as well as their comparative inexpensiveness for their rich array of beauty. Without them a continuous and uninterrupted display of flowers from spring till frost cannot well be obtained. Indeed we can think of nothing at all to be compared in cost and trouble in attaining, which will add so much real pleasure, comfort and happiness, to the surroundings of a country or village home, as a good selection of common annuals well arranged and cared for. Admitting the supremacy of some of our perennials and bedding plants, lilies, dahlias, gladioli, &c., what should we do without the grand peony-flowered and German asters, the brilliant beds of Drummond phlox, the boldly marked and richly colored petunias, the double portulacas, variegated balsams, pinks, zinnias and a hundred others, less known perhaps, but not a whit behind them in beauty and elegance? Please do not for a moment think that those we illustrate are the most beautiful to be found in our list. Full prettier ones may be shown hereafter in succeeding numbers.





ABRONIA.

THE ABRONIA UMBELLATA is a charming, half-hardy annual, a native of California. It is of a low, trailing habit and produces numerous clusters of sweet-scented flowers somewhat resembling the Verbena in form. They are very effective in beds, rock-work, or in baskets suspended in a conservatory, growing freely in any light, rich soil, and producing a profusion of rosy-lilac flowers from August till October. The seeds are covered with a loose husk which should be removed before sowing. They do not always germinate very freely, and should be started in a hot-bed when convenient.



PANSIES.

THE PANSY is a native of Siberia, Japan, and many parts of Europe. It is quite commonly found there in fields of grain, where it is sheltered from the wind and shaded from the rays of the noonday sun. Many of its cousins, various species of violets, are plentifully scattered over our country in a natural condition, and from their habits we may judge best, perhaps, of the soil and situation best adapted to their wants. The Pansy must ever recommend itself to notice, not only by the brilliancy and great variety of its colors and the profusion of its blossoms, but also for its duration in bloom and the frank and honest countenance with which it always seems to look us in the face, — "a thing of beauty" that shall surely prove a joy forever. Our best strains of Pansy seeds now produce the greatest variety of colors ranging from pure white to a deep velvety black, with red, brown, yellow, violet, purple and blue, and diversified with stripes and spots of all imaginable shades. Those of one color only are called "selfs," but these are not so common or desirable as the more variegated sorts. The Pansy

is a very hardy flower. The seeds may be sown at almost any time of year. Those sown early under glass will flower during the whole summer and fall, while those sown in September, if slightly covered, will withstand our winters and bloom quite early in spring, continuing throughout the season. To produce the largest flowers they should be given plenty of room in a rich, moist situation. The seeds we offer will certainly give the greatest satisfaction.



ADONIS.

ADONIS. A class of hardy annuals of easy cultivation having pretty fine-cut foliage and large, single, bright red flowers that remain a long time in bloom. This plant is well adapted to growing in half shady situations, under trees or vines, where its peculiar brilliant color prevents its becoming hidden. There is an old legend which attributes the origin of this little flower to the drops of blood that were spilled from Adonis when he was wounded by the wild boar.



NEW HYBRID VERBENA.



WHAT CAN be more beautiful in all of Flora's realm than a bed of hybrid VERBENAS ranging in color from the purest white to the brightest of scarlet and clearest of blue? The trailing plants are thickly covered with clusters of flowers as shown in the above cut. If sown early and transplanted into beds as soon as hard frosts are past, they will give a rich profusion of bloom throughout the entire summer and until very severe frosts in autumn. The Verbena also makes one of the finest of green-house or window-garden plants. Everybody should raise a bed of them.



TEN WEEKS STOCK.

THE TEN WEEKS or Annual Stock possesses nearly all the qualities of a perfect flowering plant, having a good form, fine foliage, and producing an abundance of extremely fragrant flowers of various delicate tints. It is one of the most valuable for early, late, or winter blooming. The flowers are produced in splendid spikes, unsurpassed either for brilliancy, diversity of color, profusion or duration of bloom. It is alike valuable for bedding, massing, edging, or for pot culture. The plants, when young, are sometimes attacked by the same striped flea-beetle that infests our cabbage plants and will require watching.



DWARF BRANCHING LARKSPUR. (DELPHINIUM.)



CLARKIA. (SEE FRONTISPIECE.)

THE CLARKIA is a well-known hardy annual usually producing beautiful rose or light purple flowers. It is a native of our own Northwest, having been first discovered by Captain Clarke on the shores of the Columbia River. The plant is of good form, as shown in the engraving above, growing usually from eight to twelve inches in height. It is perfectly hardy and may be sown in September and wintered over with but little protection. However, it is usually sown in spring in a manner similar to other annuals and it will produce a profusion of bloom from July to September. It requires a rather moist situation, and sometimes suffers during our hot, dry summers unless slightly shaded and watered. Since its first introduction, the Clarkia has greatly improved. The flowers are now twice their original size. The greatest improvement in its varieties, however, was the production of the DOUBLE PURE WHITE which is shown on our first page. A packet of the seeds of this truly splendid flower will be presented to each of our subscribers as a supplementary premium with the next (March) number of SEED-TIME AND HARVEST.



DOUBLE CAMELLIA-FLOWERED BALSAM.





HELICHRYSUM.

THE HELICHRYSUM, shown in the above engraving, is one of the largest and most beautiful of the Everlastings. They are hardy annuals of the easiest cultivation. The plants grow about two feet in height. They bloom early and full. For drying, a portion of the flowers should be picked before they fully open. They retain their form and color perfectly throughout the winter.



SALPIGLOSSIS.

THE SALPIGLOSSIS is a remarkably beautiful half-hardy annual that grows to about two feet in height and produces funnel-shaped flowers of a peculiar richness, very curiously and delicately veined and marbled as though marked with a pencil. The above engraving very clearly shows the form and shape of the flowers. They are of easy cultivation, preferring a light, sandy soil.



ACCROCLINIUM.

THE ACCROCLINIUM is one of the most beautiful of the class of everlasting or strawflowers as they are more frequently called. They do not appear very important when growing in the garden among dozens of more showy plants, but when picked and dried they retain their form and color perfectly and may readily be made up into the most beautiful bouquets which will keep for many months. The A. ALBUM is a clear white, and the A. ROSEUM, as its name indicates, is of a beautiful rose color, the two blending beautifully together when made into bouquets. For this purpose the flowers should be picked while just opening or the center will turn black in drying. They are hardy annuals and will readily succeed in almost any location.



AQUILEGIA, OR COLUMBINE.



Isaac F. Tillinghast's

PRICE-LIST OF SELECT

VEGETABLE AND FLOWER SEEDS,

From Jan. to March 1880.

ANY of the following Seeds will be sent by mail or express, free of all charges, to any address in the United States, upon receipt of the prices named below, except Peas, Beans, and Corn ordered in quantities greater than pints. We think we have made our prices as low as we ought to accept for Seeds of so fine a quality as we know these to be, yet as there seems to be a disposition on the part of some dealers to cut under on the prices of some articles, we offer to any one wishing to purchase to the amount of \$10. or over, to make a special discount of 10 per cent., or on orders amounting to \$25 or over, 20 per cent. from these prices when not to be prepaid by mail.

All our seeds are WARRANTED to the amount paid for them only.

Address all orders, I. F. TILLINGHAST,  
LA PLUME, LACK'A CO., PA.

Beans.	Pkt.	Pint.	Peck.
Early Feejee.....	\$0.10	\$0.30	\$1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	15	40	3.00
Ferry's Golden Wax.....	15	40	3.00
Large White Marrowfat.....	10	25	1.50

Pole Beans.	Pkt.	Pint.	Peck.
Concord.....	10	35	2.00
Kentucky Wonder (New)...	20	—	—
German Wax.....	10	35	2.00
Dreer's Improved Lima.....	15	40	—

Corn.	Pkt.	Pint.	Peck.
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	30	1.00
Triumph.....	10	30	1.00
New Egyptian.....	10	30	1.50
White Rice Pop-Corn.....	10	35	—
Reynolds's Improved Field .	10	25	0.75

Peas.	Pkt.	Pint.	Peck.
Philadelphia Extra Early ...	10	30	2.00
Daniel O'Rourke.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
McLean's Blue Peter.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	25	1.50

Asparagus.	Pkt.	Oz.	Lb.
Conover's Colossal.....	05	10	0.75

Beets.	Pkt.	Oz.	Lb.
Early Egyptian.....	05	15	1.00
Bassano.....	05	10	0.75
Dewing's Red Turnip.....	05	10	.75
Long Smooth Blood.....	05	10	.75

Mangel Wurzel Beets.	Pkt.	Oz.	Lb.
Yellow Globe.....	05	10	.65
Norbitan's Giant.....	05	10	.65
Webb's New Kinver.....	05	10	.75
Imperial Sugar.....	05	10	.65

Broccoli.	Pkt.	Oz.	Lb.
Early Purple Cape.....	10	60	—
White Cape.....	10	60	—
Walcheran.....	10	60	—

Brussels Sprouts.	Pkt.	Oz.	Lb.
New Dwarf.....	05	25	—
<b>Cauliflower.</b>			
Lackawanna (New).....	20	2.00	—
Earliest Dwarf Erfurt.....	15	1.25	—
Early London.....	10	.75	—
Nonpareil.....	15	1.25	—
Lenormand's Short Stem....	15	1.25	—
<b>Cabbage.</b>			
True Jersey Wakefield.....	10	40	1.25 4.50
Henderson's Early Summer..	10	65	2.00 7.00
Newark Early Flat Dutch....	10	40	1.25 4.50
Early Winningstadt.....	05	20	.65 2.25
Fottler's Early Drumhead....	10	35	1.00 3.50
Premium Flat Dutch.....	05	20	.65 2.00
Late American Drumhead....	05	20	.65 2.25
Marblehead Mammoth.....	10	40	1.25 4.50
Perfection Drumhead Savoy..	05	20	.65 2.25
Red Drumhead,.....	05	25	.75 3.00
<b>Celery</b>			
Dwarf White Solid.....	05	25	.75
Boston Market.....	10	35	1.00
Sandringham.....	05	25	.75
Giant White Solid.....	05	25	.75
<b>Carrot.</b>			
Early Short Horn.....	05	15	.50 1.75
Improved Long Orange.....	05	15	.40 1.25
Danvers Orange.....	05	15	.50 1.75
White Belgian.....	05	15	.40 1.25
<b>Cucumber.</b>			
Early Cluster.....	05	10	.30 1.00
Early Russian.....	05	10	.30 1.00
Early White Spine.....	05	10	.30 1.00
Green Prolific.....	05	10	.30 1.00
Long Green.....	05	10	.30 1.00
<b>Chicory.</b>			
Large Rooted.....	05	15	.30 1.00
<b>Cress.</b>			
Curled, or Peppergrass.....	05	10	.25 .75
Water Cress.....	10	60	—
<b>Egg Plant.</b>			
Long Purple.....	10	40	—
Improved N. Y. Purple.....	10	60	—
<b>Kohl Rabi.</b>			
Early White Vienna.....	10	35	—
<b>Lettuce.</b>			
Hanson.....	05	35	—
Victoria.....	05	35	—
Early Curled Simpson.....	05	35	—
True Boston Market.....	05	35	—
White Seeded Tennisball.....	05	35	—
Black Seeded Tennisball.....	05	35	—
Drumhead, or Malta.....	05	35	—
<b>Leek.</b>			
Large Scotch Flag.....	05	20	—
<b>Musk Melon.</b>			
Nutmeg.....	05	10	.30 1.00
Skillman's Netted.....	05	10	.30 1.00
Ward's Nectar.....	05	10	.30 1.00
Improved Yellow Cantaloupe	05	10	.30 1.00
Green Citron.....	05	10	.30 1.00
Pine Apple.....	05	10	.30 1.00
Jenny Lind.....	05	10	.30 1.00
Surprise, [New].....	10	30	—
<b>Water Melon.</b>			
Phinney's Early.....	05	10	.30 1.00
Striped Gipsey.....	05	10	.30 1.00
Ice Cream.....	05	10	.30 1.00
Mountain Sweet.....	05	10	.30 1.00
Ferry's Peerless.....	05	10	.30 1.00
Citron, (for preserving,).....	05	10	.30 1.00
<b>Mustard.</b>			
White French.....	05	05	.15 0.50
Black American.....	05	05	.15 0.40
<b>Onion.</b>			
Extra Early Red Globe.....	05	25	1.00 4.00
Yellow Danvers.....	05	35	1.25 4.50
Red Wethersfield.....	05	25	.70 2.50
Large Yellow Dutch.....	05	25	1.00 4.00
White Globe.....	10	25	1.00 4.00
White Portugal.....	05	25	1.00 4.00
New Queen.....	10	25	1.00 4.00



<b>Parsnip.</b>			
Hollow Crowned.....	Pkt.	Oz.	4-Oz. Lb.
Smooth Dutch.....	05	10	.25 0.75
<b>Parsley.</b>			
Extra Fine Curled.....	05	15	
<b>Pepper.</b>			
Sweet Bell or Bull Nose.....	10	30	1.00 4.00
Large Sweet Mountain.....	10	20	1.00 4.00
Red Cayenne.....	10	30	1.00 4.00
Spanish Monstrous (New)....	10	40	
<b>Pumpkin.</b>			
Large Cheese.....	05	10	.25 0.75
Sugar. (Best for pies.).....	10	20	
Connecticut Field.....	05	05	.15 0.35
<b>Radishes.</b>			
Early Scarlet Turnip.....	05	10	.30 0.90
Early White Turnip.....	05	10	.30 0.90
Long Scarlet Short-Top.....	05	10	.30 0.90
Early Scarlet Olive.....	05	15	.35 1.00
French Breakfast.....	05	10	.30 1.00
China Rose Winter.....	05	10	.30 1.00
Black Spanish Winter.....	05	10	.30 1.00
California Mammoth White..	05	15	.40 1.40
Grey Summer Turnip.....	05	15	.40 1.40
Golden Yellow Summer (New)	05	15	.50 1.50
<b>Salsify, or Vegetable Oyster.</b>			
White French.....	05	25	.75 3.00
<b>Spinach.</b>			
Round Leaved.....	05	10	.20 0.50
Monstrous Viroflay.....	05	10	.25 0.65
<b>Squash.</b>			
Early White Bush.....	05	10	.30 1.00
Summer Crookneck.....	05	10	.30 1.00
Hubbard.....	05	15	.40 1.25
Marblehead.....	05	15	.40 1.25
Butman, (New,).....	05	15	.40 1.25
Cocoanut, (New,).....	10	30	
Mammoth.....	10	30	
<b>Tobacco.</b>			
Connecticut Seed Leaf.....	10	30	
Kentucky Broad Leaf.....	10	30	
<b>Turnip.</b>			
Early White Dutch.....	05	10	.25 0.75
Purple Top Strap Leaf.....	05	10	.25 0.75
Long White Cow Horn.....	05	10	.25 0.75
Yellow Aberdeen.....	05	10	.25 0.75
Yellow Globe.....	05	15	.25 0.75
Golden Ball.....	05	10	.25 0.75
<b>Rutabaga, or Swede Turnip.</b>			
White French, or Sw't German	05	10	.25 0.75
Skirving's Purple Top Yellow	05	10	.25 0.75
Brill's American Yellow.....	05	10	.25 0.75
Shamrock Swede, Yellow.....	05	10	.25 0.75
<b>Tomato.</b>			
	Pkt.	Half-Oz.	Oz.
Acme, [New.].....	05	0.25	0.50
Red Chief, [New.].....	05	0.25	0.50
Red Currant.....	05	0.25	0.50
Paragon.....	05	0.25	0.50
Canada Victor.....	05	0.15	0.30
Conqueror.....	05	0.15	0.30
Hathaway's Excelsior.....	05	0.15	0.30
Trophy.....	05	0.15	0.30
Arlington.....	05	0.15	0.30
Green Gage.....	05	0.15	0.30
Golden Trophy.....	05	0.20	0.40
North Star, (New).....	25		
<b>Herb Seeds.</b>			
	Pkt.	Oz.	Pkt. Oz.
Coriander.....	05	.20	Dill..... 05 .25
Horehound.....	10	50	Sage..... 05 20
Summer Savory... ..	10	30	Saffron.... 05 25
Sweet Marjoram.. ..	10	40	Lavender . 10 30
Caraway.....	05	15	Sweet Basil 10 40
Sweet Fennel.....	05	20	Thyme.... 10 50

**Grass Seeds.**

Timothy, Clover, &c., at Market Rates.



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

**EXPLANATION.**—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—  
a.—annual. b.—biennial c.—climber e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Price per Packet. Unless otherwise noted the price for all packets in this list is but Five Cents each.

Abronia umbellata, rosy lilac, a.....	.05
Acroclinium albnm, white, a. e.....	
..... roseum. rose, a e.....	
Adonis vernalis, scarlet, a.....	
..... autumnalis, crimson, a.....	
Ageratum Mexicanum, blue, a.....	
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa p.....	.05
..... alba, white, p.....	
..... atro-sanguinea, crimson, p.....	
Alyssum maritimum, sweet, white, a.....	
Amaranthus caudatus, crimson, a.....	
..... melancholicus ruber, d'k crimson'	
..... salicifolius, scarlet and purple, a.....	.10
Ammobium alatum, (Immortelle,) white' e.....	.05
Anemone coronariam, p.....	.10
..... fulgens, new, fine scarlet, single, p..	.25
..... doubele. p.....	.25
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a 10 colors mixed,.....	
Aquilegia hortensis, double, m. p.....	.10
..... chrysantha, new golden-spurred.....	.15
..... finest varieties mixed.....	.10
Aster, pæony-flowered, extra finne, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau. m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05
Calceolaria grandiflora elegans, rosy pink a...	
Calceolaria scabiosa-folia, new, p.....	.10
Callirhoe pedata nana, purple crimson, a.....	.05
Campanula trachelium, double, b.....	.10
..... nobilis alba b.....	.10
..... medium, (Canterbury bells,) double.....	.05
Candytuft, rocket selected, m, a.....	



Candytuft fragrant m. a. ....	10
..... hybrid dwarf m. a. ....	05
Canna Indica, 5 colors mixed, a. ....	15
Carnation, double picotee, m. a. ....	10
..... early dwarf m. a. ....	05
Celosia cristata, —cockcomb— 6 colors mixed	10
..... variegata new, m. a. ....	10
..... crimson, gold and fire-feathered, m. a.	10
Centaurea Babylonica, new p. ....	05
..... cyanus minor m. p. ....	10
Centranthus macrosiphon m. a. ....	10
Chrysanthemum carinatum, m. a. ....	10
..... double white new	10
..... Indicum grandiflorum, m. p. ....	15
Clarkia pulchella m. a. ....	10
..... elegans, new double, pure white	10
Cobaea scandens, purple c. p. ....	05
Coix lachrymæ, Job's Tears, ....	10
Colutea Loricunda	10
Collinsia multicolor marmorata, a. m. ....	10
Convolvulus minor, m. a. ....	10
..... major, Morning-glory, m. a. ....	10
Coreopsis tinctoria m. a. ....	10
Cucurbita, Ornamental gourds, m. a. ....	10
Datura fatnosa, double purple a. ....	10
..... white a. ....	10
..... Wrightii, new double, a. ....	10
Delphinium (Larkspur,) dwarf double, m. a. ....	10
..... tall German rocket	10
..... dwarf branching double, ....	10
Dianthus dentosus hybridus, m. a. b. ....	10
..... sinensis double m. a. b. ....	10
..... barbatus, [Sweet William.] p. m. ....	05
Digitalis gloxinoides, spotted, white & crimson	10
Eschscholtzia Californica, yellow a. ....	10
..... tennifolia, new a. ....	10
Eutocia Wrangeliana, low blue annual	10
Geranium, zonale and inquinans mixed, a. p. ....	15
Gilia tricolor, blue white and lilac m. a. ....	05
Globe Amaranth 6 colors m. e. a. ....	10
Godetia, Lady Albemarle, new large crimson a. ....	15
..... roseo albo Tom Thumb a. ....	05
Helichrysum lucidum m. a. e. ....	10
..... dwarf m. a. e. ....	10
..... monstruosum double m. a. e. ....	10
..... Californicus, double a. ....	10
Heliopsis scabra, yellow everlasting. ....	10
Hollyhock Chinese double a. ....	10
Honey-suckle, Hedysarum coronarium m. a. ....	05
Ipomœa Quamoclit, Cypress vine m. a. ....	10
Jacobœa, Senecio elegans double m. a. ....	10
..... dwarf double m. a. ....	10
Lantana hybrid m. ....	10
Linaria bipartita flora albo a. ....	10
..... purpurea, snapdragon a. ....	10
Linum grandiflorum roseum a. ....	10
Lobelia Erinus grandiflora superba	10
Lupinus, Dunnettii superbus, new a. ....	10
..... tricolor elegans new a. ....	10
..... polyphyllus mixed p. ....	10
Lychnis chalcodonica, white and scarlet m. p. ....	10
..... Haageana hybrida new p. ....	05
Marvel of Peru hybrid, Four o'clock, m. a. ....	05
..... mirabilis jalapa a. ....	10
Marigold African double m. a. ....	10
..... French ..... m. a. ....	10
Mignonette, Reseda odorata, sweet-scented a. ....	10
..... large-flowering a. ....	10
Mesembrianthemum, Ice plant, a. ....	10
Mimulus cupreus hybridus extra a. ....	10
Nemophila insignis, blue with white center a. ....	05
..... discordalis, black—white margin a. ....	10
..... elegans—very brilliant—a. ....	10
..... maculata white and purple a. ....	05
Nigella Damascena, Love in a mist, a. ....	10
..... Hispanica a. ....	10
Oenothera Drummondii, Evening Primrose a. ....	10
..... macrocarpa ..... 10	10
..... acaulis ..... 10	10
Pansy large flowering, very fine mixed, a. p. ....	10
Pas sweet ..... 15 cts. per oz. ....	05
Petunia hybrid, very fine mixed colors a. p. ....	25
..... double striped	05
Phlox Drummondii splendid mixed colors a. ....	05
..... pe. annual	05

Portulaca grandiflora m. a. ....	5
..... double extra m. a. ....	15
Primula Japonica, new Japanese primrose a. b. ....	15
..... elatior, cowslip m. a. b. ....	05
Rodanthe Manglesii, everlasting m. a. ....	10
..... maculata ..... m. a. ....	10
Ricinus sanguineus, castor oil bean a. ....	10
..... major, largest variety a. ....	10
Salpiglossis hybrid blue and scarlet m. a. ....	10
Salvia cœcinea a. p. ....	10
Scabious major, mourning bride m. a. ....	10
..... minor, dwarf double m. a. ....	10
Silene Armeria, Lobel's catchfly m. a. ....	10
..... pendula double rose a. ....	10
Schizanthus papilio aceous m. a. ....	10
Stocks Brompton m. b. ....	10
..... German ten weeks m. a. ....	10
..... Parisian ..... m. a. ....	10
Tagetes lucida m. a. ....	05
..... signata pumilla a. ....	10
Tropæolum Lobbianum, spit-fire a. ....	10
Tropæolum majus, Tall Nasturtium, a. ....	10
Verbena hybrid, extra choice mixed a. ....	10
Virginian stock m. a. ....	10
Wallflower double m. p. ....	10
..... pure bright yellow, new	10
Xeranthemum annuum Imperial double a. ....	10
..... mixed varieties a. e. ....	10
Zinnia elegans double m. a. ....	10
..... dwarf m. a. ....	10



SINGLE PORTULACA.

### ORNAMENTAL GRASSES.

These are cut when in blossom or just before the seed has matured, and dried. They are then used in making up bouquets in combination with dried everlasting flowers, blending beautifully with the bright colors of the flowers and making ornaments which will retain their color and freshness for many months.

Agrostis Pulchella. ....	05
Briza Maxima. ....	05
Gynerium, or Pampas Grass . . . . .	05
Stipa Pennata, or Feather Grass . . . . .	05
Striped Leaved Japanese Maize. . . . .	05



DWARF FRENCH MARYGOLD.



## Cabbage Plants.

A Great Specialty of our business is growing Cabbage Plants for market gardeners and planters, who find it cheaper to purchase healthy, stocky, well-grown plants of us than to grow them. We shall this season make a seed-bed at least four acres in extent which will produce about six million plants. We are not afraid to compete with the world in prices or quality of plants. To insure freedom from disease we shall use ground never before occupied by any of the cabbage tribe. They will be ready by June 1st, and kept on hand till August. They will be carefully packed in damp moss and boxed so as to carry safely for three days by express, at the following rates: 1000 \$2.00, 2000 \$3.50, 5000 \$8.50, 10 000 or over at \$1.50 per M. Tell your neighbors of this PLEASE.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## Celery Plants.

The demand for Celery increases annually in our markets and we find it necessary to increase our plant beds accordingly. We shall this season strive to have the largest and best stock of Celery Plants that we have ever offered at the low price of \$2.50 per M.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## Seed Potatoes.

We are now booking orders for the varieties of Potatoes named on pages 6 and 7 at the following prices: One pound of any variety by mail post paid, 50 cents, or 3 lbs. for \$1.00. By Express or Freight, at purchasers expense, one peck, 75 cents; one bushel, \$2.00; one barrel, \$4.00. Only good sound tubers will be sent, and several kinds will be packed separately in one barrel at above barrel rates when desired. Please send in orders for potatoes early and they will be forwarded about April 1st, or as soon as the weather will permit.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## Grape Vines.

We can furnish good, strong, well-rooted one year old vines of the following varieties of popular early grapes at the low prices annexed: Concord, Clinton, Ives', Hartford, Ionia, Diana, Creveling, 15 cts each, \$12. 100.

Delaware, Eumelan, Champion, 25 cents each, \$20. per 100. Worden, Brighton, and Lady, 60 cents each, \$50. per 100. Moore's Early, and Walter, \$1. each, \$80. per 100.

Any of above will be sent postpaid by mail on receipt of single price. Will furnish 25 vines of one or more varieties at the hundred rates, by express.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## The Clark Apple.

A Valuable new variety which originated from a chance seedling in this county.

We say it is *new* meaning that it is unknown to the world at large, although it has been grown and tested in this vicinity for a number of years and found to be unexcelled as a late fall and early winter eating and cooking apple. The tree is an early, regular, and abundant bearer, of medium sized fruit, of a light green color. The flesh is white, tender and very juicy, of a rich, sparkling, aromatic, sub-acid flavor, which is relished by nearly every one. In fact we have never found so good and profitable an apple which is yet unknown to nurserymen.

Specimens of the fruit were sent by us last fall to A. M. Purdy, Ellwanger & Barry, M. B. Bateham, and other noted Pomologists all of whom speak very highly of it. Being confident that it is well worthy of general introduction we have decided to offer scions carefully packed in damp moss and sent to any address prepaid by mail at only 25 cents per dozen, or \$1.50 per hundred. I would advise all my friends who are interested in choice fruits to send for at least a dozen and give them a trial. No young trees for sale.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## Strawberry Plants

We have a large stock of fine Strawberry Plants which we offer at very low prices. They will be securely packed and shipped by mail or express at the following rates: One Dozen plants each of any three varieties by mail, postage paid, for One Dollar. One Dozen selected, forty cents. Springdale, Sterling, Kerr's Prolific, Great American, Somers's Ruby, Prouty's Seedling, Captain Jack, Cumberland Triumph, Crescent Seedling, Boyden's No. 30, Kentucky and Nicamor by Express, at \$1.00 per hundred. Wilson, Col. Cheney and Monarch of the West, at 50 cents per 100, or \$4.00 per 1000 by Express. Sharpless, by mail, 40 cents per Dozen, or \$2.50 per 100. By Express at \$2.00 per hundred.

## Miscellaneous.

In addition to above we shall keep on hand in season Early Cabbage, Cauliflower, Pepper, Sweet Potato, and other Hot-Bed and Cold Frame Plants of the best quality.

Also Linnæus Rhubarb, Prickly Comfrey and Asparagus roots, &c.

We have also arrangements with reliable Nurserymen by which we can furnish Pear, Apple and other Fruit Trees, all at the lowest rates when wanted in quantity. Write for what you want and we will price your list. I. F. TILLINGHAST, LA PLUME, PA.



## Publisher's Department.

\*.\* The best advertising medium is a pleased patron.

☞ Small profits and fair dealing defy competition.

\*.\* Old seeds do not satisfy old patrons or make new ones.

☞ In our house a guarantee means something. If our seeds do not satisfy you we will refill your order.

\*.\* Should you receive more than one copy of SEED-TIME AND HARVEST, please have the kindness to hand those you do not need to some one who is interested.

☞ Our Flower-seed List comprises the choicest varieties to be procured at home or abroad. All packages not otherwise priced are but Five Cents each.

\*.\* Amounts not exceeding One Dollar may be sent in a common letter at our risk. If over one dollar Register the letter, or buy a Money Order and deduct the fee—10 cents—from the amount enclosed.

☞ In comparing our prices with those of other growers please do not overlook the fact that our quotations include the prepayment of postage. The amount we charge will bring our seeds to your door.

\*.\* In writing to us never fail to plainly write your full Name and Address. Don't think that because you have written to us before, our clerks can remember where you belong or who you are. Tell us every time.

☞ We accept Postage stamps when sent but continually receive more than we can use. If you will send us even dollars in currency we will return your exact change. If you must send stamps, send one-cent stamps if possible.

\*.\* We do not care to boast of handling more tons of commercial seeds than any other firm in the country. We much prefer to sell a limited amount of pure fresh seeds to a few hundred good customers on whom we can depend after they have learned that they can depend upon us, than to flood the country with stock that we know little or nothing about. We think it better to sell seeds which are worth all you are asked to pay for them and live on a fair profit, than to sell a cheap purchased article at a large margin and then have to expend the profits in newspaper advertising in order to drum up new customers for the future.

☞ The P. M. G. has decided that "SEED-TIME AND HARVEST" is a "regular periodical designed primarily for advertising purposes," and not entitled to pass in the mails at second class rates. We have therefore decided to include our Price-list of seeds in it and publish no other catalogue until such time as His Honor sees fit to accord to us the rights which other publishers are permitted to enjoy.

OUR OFFICE is now fitted up with a full supply of Presses and modern job printing materials sufficient to do all our own work and considerable job work for any of our friends who may want neatly executed price-lists, &c., at a moderate cost. We give this publication as a sample of our work and invite correspondence from any one in need of job printing of any kind. Address all orders and inquiries to

SEED-TIME AND HARVEST,  
LA PLUME, LACK'A Co., PA.

## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

ARTHUR'S HOME MAGAZINE.—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

DEMAREST'S MONTHLY, devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

PETERSON'S MAGAZINE. Chas. J. Peterson & Co., Philadelphia, comes again with its New Years greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

LIPPINCOTT'S MAGAZINE. J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

THE PHRENOLOGICAL JOURNAL. S. R. Wells, & Co., New York, ranks ahead of any other in America in its specialty. The January number contains a fine portrait of Hon. J. G. Blaine, with an analysis of his character, and much other matter of interest to every one who would know himself.

THE PRAIRIE FARMER. A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

THE RURAL NEW-YORKER still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 78 Duane Street, New York.

VICK'S MONTHLY MAGAZINE, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

THE GARDENER'S MONTHLY AND HORTICULTURIST. Edited by Thos. Mehan and published by Charles H. Marot at Philadelphia Pa., at \$2.10 per year. It gives full instructions in the science and practice of every branch of gardening.

THE FARM JOURNAL, Monthly, Philadelphia, Pa., as the Editor justly says, is CREAM, NOT SKIM-MILK. 50 cents per year. No Chromos, Books, Dog-Powers, Alderney Calves or other premiums. See Adv't.

PARK'S FLORAL MAGAZINE, G. W. Park, Mt. Vernon, Ohio, is a finely illustrated monthly, devoted to the cultivation and management of flowers. First class.

THE LADIES' FLORAL CABINET is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.



THE SCIENTIFIC NEWS, published bi-weekly by Mr. S. H. Wales & Son, N. Y., should be in the hands of every mechanic. It is devoted to Science, Arts, Inventions, Patents, Shop and Household economy. It is finely illustrated. \$1.00 per year.

GLEANINGS IN BEE CULTURE, monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

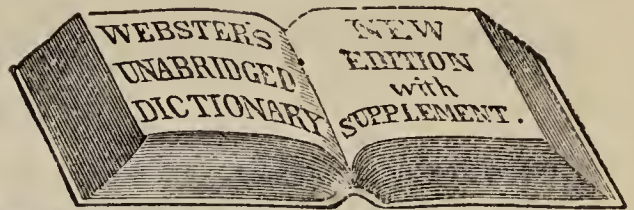
THE AMERICAN BEE JOURNAL. Monthly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$1.50 per year.

AMERICAN RURAL HOME. A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

THE HERALD OF HEALTH. Wood and Holbrook, 15 Laight St., New York. One of the oldest and best sustained health publications issued. Has an excellent corps of eminent writers who strive to elevate the mind as well as strengthen the bodies of mankind.

HALL'S JOURNAL OF HEALTH. New York. This publication differs in the fact that it is composed entirely of short and concise editorial articles upon the most common causes of loss of health, and best methods of regaining it. Ought especially to be read by the young.

THE WEEKLY WITNESS. John Dougal & Co., New York. Contains News of the Day, Prices Current, Financial Reports, Spirit of the New York Daily Press, Home Department, General Correspondence, also Departments for Agriculture, Temperance, Sabbath School, Religious Reading, Stories &c. It gives more reading matter than any other religious weekly.



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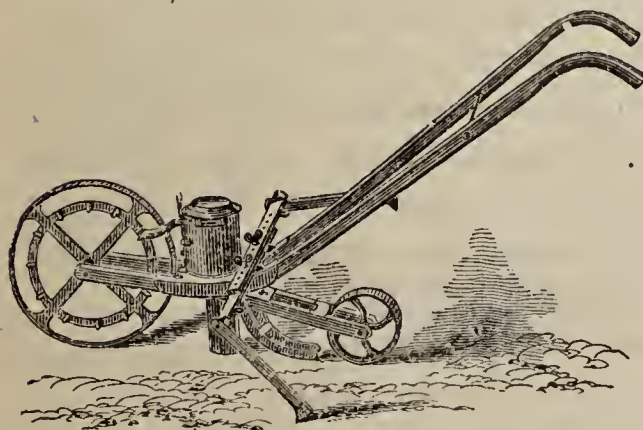
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This is designed to be used in either field or garden. When in operation, it opens the furrow, drops the seed accurately at the desired depth, covers it and lightly rolls it, and at the same time marks the next row, all of which is done with mechanical precision, by simply propelling the machine forward.

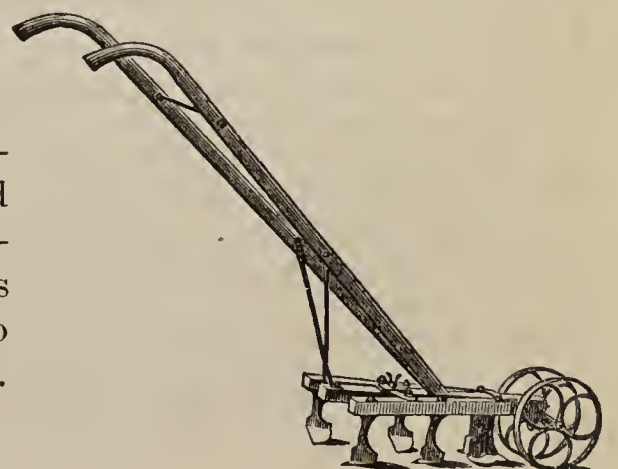
In this way it sows, with an evenness and rapidity impossible for the most skillful hand to do, all the different varieties of *Beet, Carrot, Onion, Turnip, Parsnip, Sage, Spinach, Sorghum, Peas,*

*Beans, Broom Corn, Fodder Corn, etc.* Price \$13.00.

**MATTHEW'S HAND CULTIVATOR.**

This is an excellent and cheap implement for weeding between the rows of field and garden crops, and keeping the soil loose and plants in a growing condition. The Price of this is \$6.50. Any of my friends wishing either of the above may send their orders to me and I will furnish them at the above factory prices.

ISAAC F. TILLINGHAST,  
LA PLUME, LACK'A CO., PA,





# SEED-TIME AND HARVEST.

## A New Illustrated Quarterly Journal

—DEVOTED TO—

*The Improvement of Our American Gardens.*

Edited and Published by

ISAAC F. TILLINGHAST, LA PLUME, Lackawanna County, Penn.

TERMS: One Copy, Fifty Cents. Three Copies, \$1, Ten Copies, \$2.50, post paid for one year, with premiums. ADVERTISING RATES: \$30 per page. Less than one-fourth page, 25 cents per agate line, each insertion.

It will be our aim to return a greater value for the amount charged for this Journal than can be obtained elsewhere in the United States, and to this end—in addition to striving to make every number worth the full year's subscription price in practical information—we propose the adoption of a new plan of **PREMIUMS** to **SUBSCRIBERS**, which will consist of a packet of **Seeds** of some New and Valuable Flower or Vegetable to go with each Number as a Supplement.

These seeds will consist mainly of

### CHOICE AND RARE NOVELTIES

which in most instances cannot be procured at any price of other seedsmen, and will not, as a rule, be offered by us at less than 15 cents each, alone. Following, as we do, the business of producing and selling choice Flower and Vegetable **Seeds** and **Plants** we think we will be enabled to carry out this plan to the utmost satisfaction of our subscribers.

## \$1. Special Offers! \$1.

Realizing that fractional currency is scarce, and believing that we may gain permanent customers by putting trial packages of our seeds into new hands, we have decided to make up a few special combinations. We therefore offer to send, post paid by mail, to any address, all the articles named in any one of the following numbers, on receipt of \$1.

1. **Seed-Time and Harvest** one year, (*with premium always*) 50c. **Home and Farm** one year, (*see advertisement, page 25*) 50c., and a selection of **Flower Seeds** from our list to the amount of 50c., making \$1.50 in value for only \$1.

2. **Seed-Time and Harvest**, 50c., **Atkinson's Farm Journal**, one year, (*see advertisement,*) 50c., **FLOWER SEEDS** 50c., making \$1.50 for \$1.00.

3. **Seed-Time and Harvest**, 50c., **Manual of Vegetable Plants**, cloth, 75c., **FLOWER SEEDS**, 25c., making \$1.50 for \$1.00.

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Other Combinations may be seen by referring to List of Periodicals, page 7.

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CEILING. SIDING,

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TOO LATE

It soon will be. The rise of more than half  
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stand. For a very short time only we will  
receive orders at old prices, viz: 5 Ton Wa-  
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on trial—freight paid by us—no money ask-  
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We will with pleasure send you a sample copy of our  
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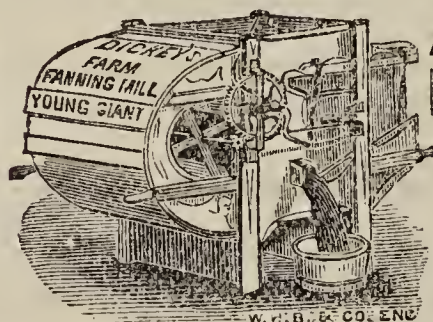
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PILLOW SHAM SUPPORTER.

A new and useful article for holding  
PILLOW SHAMS  
in place and for removing instantly out of  
the way when the bed is to be used.

A beautiful Black-walnut Sample, with  
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Pittston, Pa.

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FANNING MILL**

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cleans all kind of small  
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**BEE JOURNAL**

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Charles R. Penfield, Lockport N. Y.

Manufacturer of

# TREE AND PLANT LABELS,

and all kinds of Stakes, Rods and Poles for Nurserymen and Florists use.  
All Goods Guaranteed to be of the Best Quality.

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## Labels Painted

in the most perfect manner, much better than can be done by hand and at less than one-half the cost.

The following extract from a letter received from Mr. Alfred Bridgeman I submit as a sample of the expressed opinions of all who have used or seen them:

New York, November 29th 1879.

Charles R. Penfield, Lockport N. Y.

Dear Sir: \* \* \* \* \* Your "Machine painted Labels" are amazingly well done. They are more thoroughly covered with paint than those painted by hand, besides being much cheaper and better looking.

Yours Truly, Alfred Bridgeman.

Small orders from amateurs and small dealers thankfully received. No charge for Packing or Cartage in this city.

*Send for Samples and Prices.*

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## Soldiers' Heirs, Widows, and Parents of Soldiers,

WHO MAY BE ENTITLED TO

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Increase of Pension,

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Please state your case, enclosing 3 ct. stamp for return postage, and address,

A. G. Tillinghast,

U. S. Claim Att'y.

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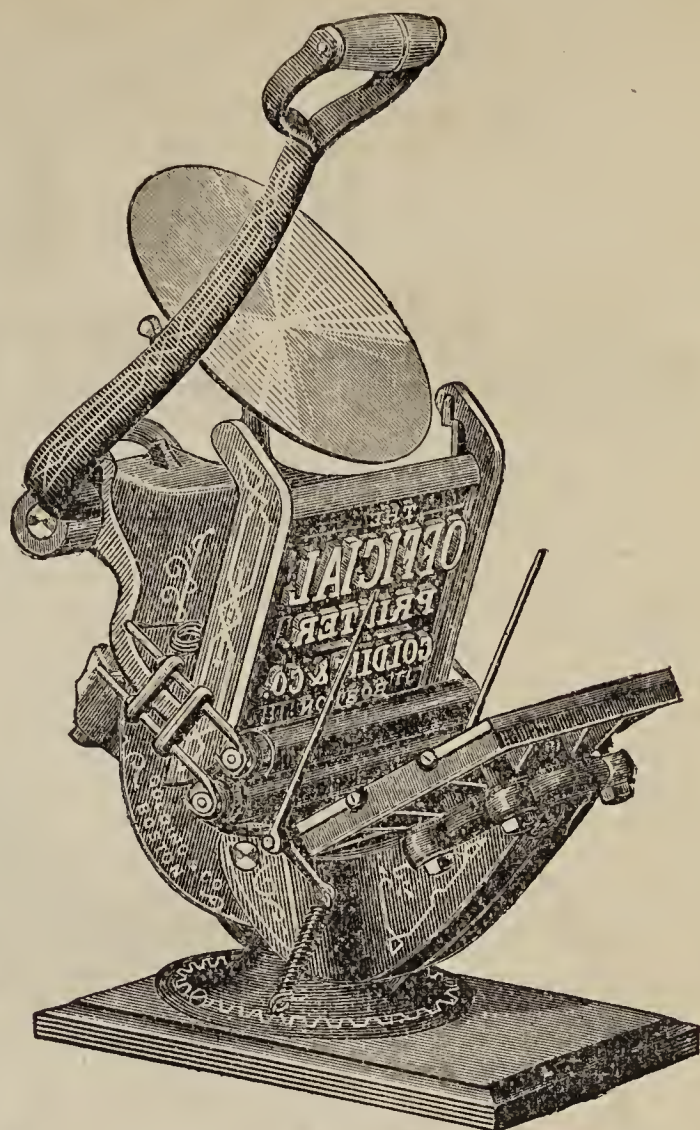
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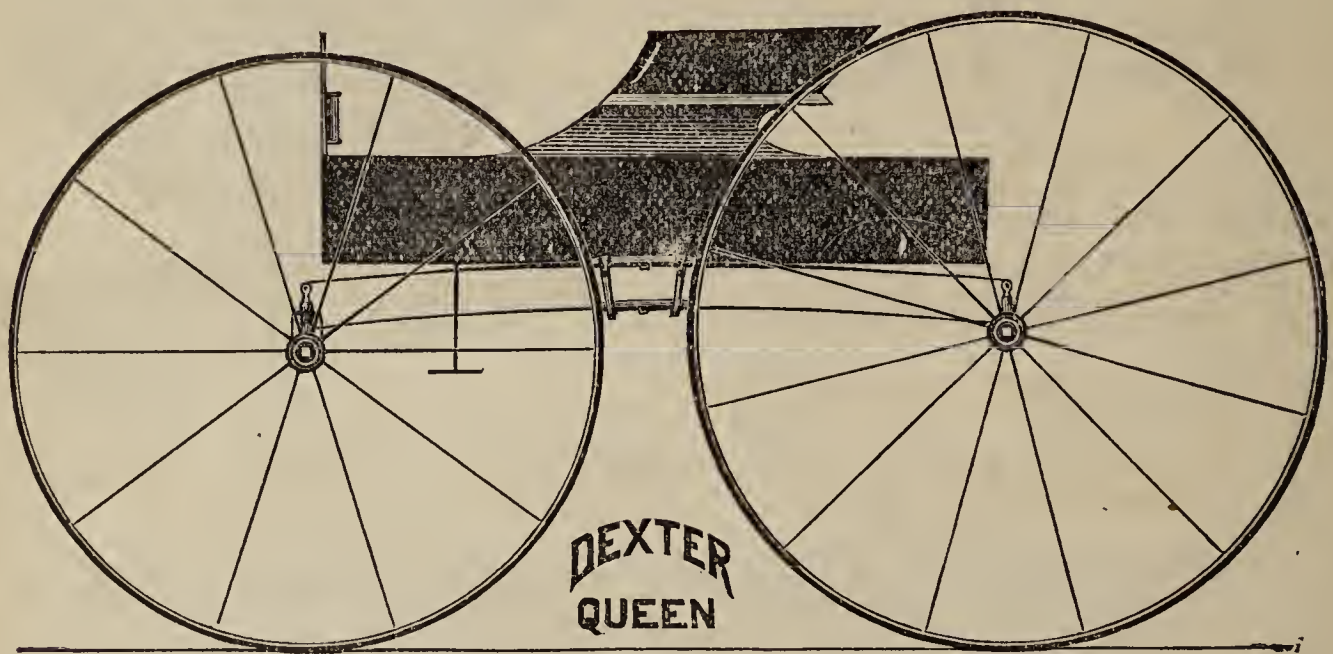
IS BEST ADAPTED FOR

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makes the easiest riding Phæton known, and is especially adapted to Physicians' and Farmers' use. For Light Spring Wagons the **Dexter Queen** Sewing Machine Wagon Spring is the **Boss**.

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The Home and Farm is an Agricultural & Family paper, published semi-monthly by B. F. Avery & Sons, at Louisville, Ky. It is an eight-page paper, six columns to the page, giving forty-eight columns of matter in each issue, two issues of which are equal to an eighty-page monthly magazine, and not inferior in quality of matter to the best of the magazines published. The subscription price for Home and Farm is

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## Purdy's Small Fruit

INSTRUCTOR,

Tells how to plant and grow all kinds of Small Fruit successfully both for market and home garden.

### CONTENTS.

"Small Fruit for the Family." "Advice to New Beginners." "What We Would do with Ten Acres." "The Homes of the Farmer." "Profits of Small Fruits." "Secrets in Making Small Fruits Profitable." "Marketing Fruits." "Gathering the Fruit." "Wagons for Drawing Fruit." "Shipping Fruit that Perishes Quickly." "Size of Shipping Crates." "A Plan for Laying out a Fruit and Vegetable Garden of 20 Acres." "A Plan for Laying Out a Small Family Garden." "Stands for Gathering Fruit." "Protection from Wind." "Raising New Sorts." "Manures." "Liquid Manures." "Preparation of Soil for Strawberries, and Different Methods of Growing—same for Raspberries, Blackberries, Currants and Grapes." "Profits of Small Fruits." "Fig Culture." "Plan of a Fruit-Drying House." "Fruit Boxes." "Packing Cases," &c., &c. We can show more testimonials as to its practical value than can be produced for any other work of its kind extant. Price, post-paid, only 25 cents. Wholesale and retail price-list of Strawberry, Raspberry, Blackberry, Currant, Goosberry and Grape Plants, free on application. Address, A. M. PURDY, Palmyra, N. Y.

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# Happy Thought Range,

With Smyth's Patent Duplex Grate,

MANUFACTURED BY

## THE UNION STOVE & MANUFACTURING COMPANY,

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This Range is beautiful in appearance, and is substantially made. It contains all the latest and most valuable improvements, including DUST-DAMPER and FLUE,



EXTENSION OF FIRE-Box for burning wood, and SMYTH'S PATENT DUPLEX GRATE, herewith illustrated and described. The whole construction is the result of years of study.

*For Sale by First-Class Dealers Throughout the Country.*

### Description of the Duplex Grate.

WE CLAIM IT TO BE THE  
SIMPLEST DEVICE  
FOR THE  
INSTANT REMOVAL  
OF

**Ashes, Slate and Clinkers,**  
ever yet brought before the public.

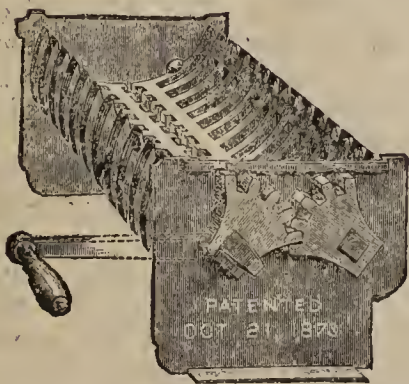


Fig. 1.

Fig. 1 Represents the Duplex Grate in proper position to start the fire, and the same in which it is generally used.



Fig. 2.

Fig. 2 represents the same reversed, allowing the ashes to escape and retaining the fire.

The advantages claimed for this improvement are as follows:

FIRST. By one movement of the handle the ashes and clinkers are effectually removed and the fire is left upon a clean grate. SECOND. As the operation is performed when the range is closed no ashes or dust can escape into the room, which, as is well known, is not true of the so-called anti-clinker grates now in use. THIRD. The entire clinker is removed regardless of size, while with other grates the large clinkers must be broken before they can be removed. FOURTH. No skill or experience upon the part of the operator is required.



Number Two.

Seed-Time and Harvest.

APRIL, 1880.



[DOUBLE CHRYSANTHEMUM-FLOWERED ANEMONE.]

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An Illustrated Quarterly Horticultural  
Magazine.

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Isaac F. Tillinghast, Publisher.

La Plume, Pa.



# SEED-TIME AND HARVEST.

## A New Illustrated Quarterly Magazine

—DEVOTED TO—

*The Improvement of Our American Gardens.*

Edited and Published by

ISAAC F. TILLINGHAST, LA PLUME, Lackawanna County, Penn.

On January 1st, we began the publication of a New Illustrated Quarterly Magazine, under the above title, which is designed to be made of mutual benefit to ourselves and our numerous friends and patrons. It consists of 24 pages of the size and appearance of these pages, handsomely covered and elegantly illustrated throughout. In it will be found descriptive notes upon various new Flowers and Vegetables and information upon general garden topics, also a condensed catalogue and pricelist of the Seeds, &c., kept for sale by us. The Price of this publication was put at 50 cents per year. but in order to put it within the reach of all for introduction we have decided to make the following

### Magnificent Offer!

On receipt of FIFTY CENTS in silver, currency or postage stamps, we will send by mail postpaid one copy of SEED-TIME AND HARVEST, as described above, for one year, and in addition any Flower or Vegetable Seeds you may desire and select IN PACKETS from our list, to be found inside this circular, to the full amount of the money sent—50 cents, thus making SEED-TIME AND HARVEST FREE!

Or, we will send SEED-TIME AND HARVEST free for one year to all who purchase Seeds, Plants or Potatoes of us, in bulk or otherwise, to the amount of One Dollar or more.

Now, Kind Reader, if you have a garden and use seeds at all, you certainly should use ONLY THE BEST. You know that the "commissioned seeds" sold at every store and grocery are proverbially UNRELIABLE. We know that our seeds are *Pure and Fresh*, and we WARRANT them to give satisfaction, in so far that we will refill the order gratis in case of dissatisfaction. We have therefore made these liberal offers expecting that you will be pleased with them upon trial and continue to patronize us in the future.

HOW TO SEND MONEY.—Sums under One Dollar may be sent in a common letter in 1c., 2c., or 3c. postage stamps if currency cannot be obtained. All larger sums should be by Registered Letter, Bank Check or Draft, or Post Office Money Order drawn on the Scranton Pa., post office.

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## Hardy Fruit Trees, Vines &c.

We shall have on hand during the planting season the following strictly first class Trees and Vines which we will sell at the very low prices annexed. The travelling tree-agents who are canvassing the country will charge you at least double these rates for no better if as good quality of stock.

Apples, all best varieties, 4 to 5 feet,	15 cents each, \$1.50 per dozen.
Pears, Standard,	25 cents each, \$2.50 per dozen.
Pears, Dwarf,	20 cents each, \$2.00 per dozen.
Peaches,	15 cents each, \$1.50 per dozen.
Cherries,	15 cents each, \$1.50 per dozen.
Grape Vines, different varieties, from	10 cents each, upwards.
Norway Spruce, 1½ to 2 feet high,	15 cents each, \$1.50 per dozen.
American Arbor Vitæ, 1 to 2 feet,	10 cents each, \$1.00 per dozen.
Austrian Pine, 2 to 3 feet,	15 cents each, \$1.50 per dozen.

ISAAC F. TILLINGHAST, LA PLUME, LACKAWANNA CO., PA.



*Frank Jewell*

PHOTOGRAPHS,

SCRANTON, PA.

---

Eleven years successful business in Scranton.

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**The Oldest and Most Reliable Clothing House**

—IN—

**SCRANTON.**

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**S. Friedman, Proprietor.**

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**C. W. FREEMAN, Jeweler.**

**195 Lack'a Avenue, Scranton, Pa.**

Mr. Freeman employs special endeavor to offer the best manufactures in the market. In this connection we would call attention to the Waltham and Elgin Watches, than which there are none better in the market.

In silver and plated ware, spoons, forks, knives, etc., there is no more complete stock in Scranton than carried by this gentleman. Sterling silver service for presentation purposes is made a strong feature. His prices are surprisingly low, and the secret of it is that he buys and sells for cash, and small profits pay him well.

None but the best workmen are employed in his business. Expensive time pieces can be left with him without running the risk of their being injured, as especial attention is paid to this branch of his business.



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**SAMTER,**

Square Dealing Clothier,

217 and 219 Lack'a Avenue,

**Scranton, Pa.**



# SEED-TIME AND HARVEST.

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*"Whatsoever a man soweth that shall he also reap."*

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NO. 2.

APRIL,

1880.

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Anemone Coronarium. New Single, French.

For Description See Page 11.



## The Vegetable Garden.

### Packing Plants for Transportation.

We have studied and experimented much upon this subject. To pack an article as perishable as cabbage plants so that it will safely carry a distance of perhaps a thousand miles or more, in hot weather, being sometimes several days *en route* is a job that must be carefully and properly performed. If too loosely packed they are liable to dry out and wilt and wither badly. If too closely packed or if the tops are wet they will heat and decay rapidly.

An experience of fifteen years in packing for shipment to all parts of the country has given us ample opportunity to experiment until we can accomplish it in a very satisfactory manner. Our plants are grown in the open ground, in rows about ten inches apart, so they have ample room to spread and grow stocky and stout. When about six inches high they are lifted by forcing a small stick or trowel under a clump of them and forcing them up so as to leave as many of the small roots unbroken as possible. The adhering soil is crushed by the hand and mostly shaken from the roots. They are then tied in bunches of one hundred each and the roots dipped in water. The bunches are then placed upright in boxes—second-hand soap or saleratus boxes answering a good purpose—having a layer of damp moss spread evenly over the bottom, on which the roots are placed. This keeps them fresh and cool, and to keep them from heating, perfectly dry, fine straw, swamp hay or other packing is placed alternately between the bunches. The top is left open for ventilation, a few slats being nailed across to protect the plants if to go on a long journey.

#### ABOUT TRANSPLANTING.

As soon as received they should be immediately unpacked, the roots again dipped in water and the bunches laid loosely upon a cellar bottom or in some cool, light place, but shaded from the direct sunlight, where they can be left until ready for setting. If the weather is hot and the soil dry it is well to “puddle” the roots before transplanting.

This is done by dipping them, a few at a time in a puddle made by stirring rich, loamy soil into water until it is of about the consistency of thick cream. Some planters, after “puddling” the roots, sprinkle a quantity of dry gypsum or “plaster” over them, allowing a coating to adhere to the roots. This helps to retain the moisture until the new rootlets get a start.

It is a very common, though erroneous, idea that the sooner a plant is reset after being taken from the seed bed, the more sure it is to live. A moment's thought ought to show the fallacy of this idea. If it does not, a little practice will. When a plant is taken up many of the finer fibers will be broken, or at least their connection with the soil severed, and the supply of moisture which is received through minute mouths situated at the ends of the fibers, stopped. The evaporation is continually going on from the leaves, and as a consequence the first tendency of the plant is to wilt and languish. If transplanted immediately—particularly if exposed to the direct rays of the sun—the evaporation is so great that the plant frequently dies before a reaction takes place. Now if this plant, on being removed from the seed bed, has its roots “puddled” and is placed in a shady situation for about twenty-four hours, it will convalesce. The leaves will stiffen up and fine, new fibrous roots will commence forming, and every energy will seemingly be put forward to a speedy recovery, and if now transplanted and given half a chance for its life, it will grow despite the weather. If the above points are followed it will be found entirely needless to wait for a rain in order to transplant cabbage and other succulent plants.

### Celery Culture.

We know of no vegetable which is more rapidly coming into popular favor and the demand for which is everywhere growing so rapidly as celery. And still there are thousands of gardens, especially among farmers, in which the first stalk of celery is yet to grow and the gardener has yet to learn how to cultivate and handle it successfully. The manner of cultivating this delicious





LA PLUME CHESTNUT CELERY.

and healthful plant has been greatly simplified within the last few years. It is not long since it was supposed that to grow celery in this country a trench some two feet in depth must be excavated, which of course removed all the good soil, which must be supplied and the plants then set in the bottom so they could be earthed up and the stalks blanched as they grew. But few growers practice this laborious method now. Celery is naturally a salt water plant, thriving best in a rich, moist situation. The seeds must be sown very early as they are usually full three weeks in germinating. A cool, moist situation should be chosen for a seed bed. As the plants make but slow growth during the hot and dry summer months they are usually not transplanted out until about the middle or last of July. Hence it is commonly made a second crop on land which has already been cleared of an early crop, such as peas or potatoes. Land which has been heavily manured early in Spring will be in better

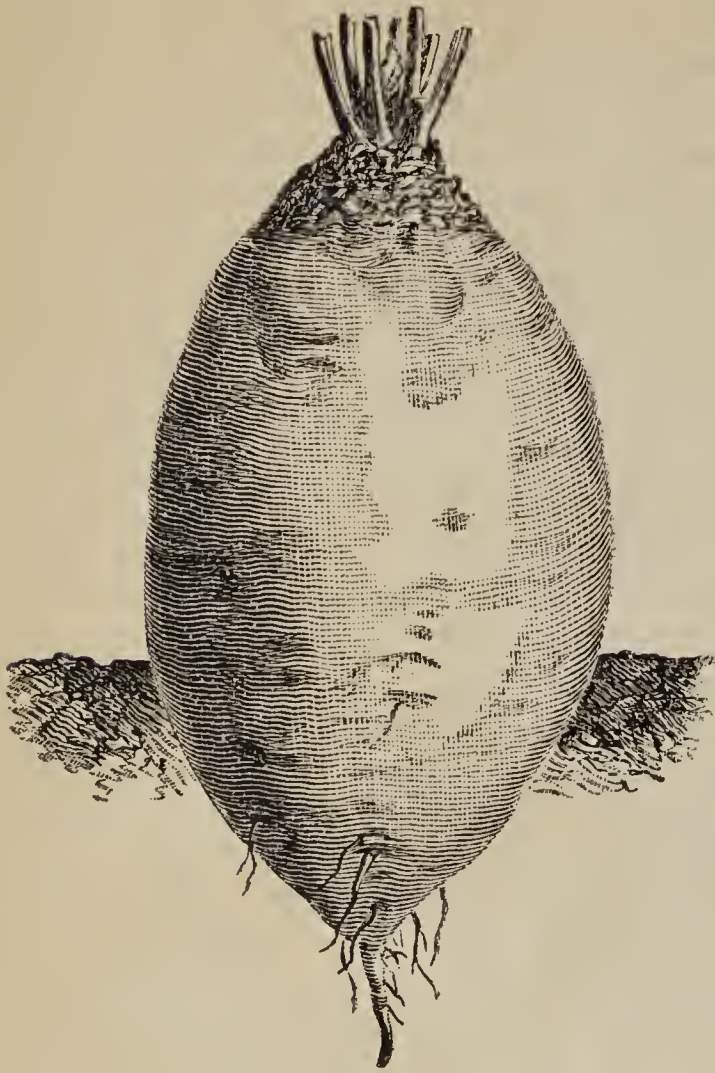
condition for celery than that on which the manure is applied just previous to setting the celery plants. The plant is a gross feeder and requires rich as well as moist and cool soil. The plants should be set in slightly depressed rows fully five feet apart and the plants about ten inches apart in the row. After the first of September the soil must be drawn up against them frequently enough to keep the stalks or branches from spreading. The more and oftener they are banked, observing that the central shoot or bud is not entirely covered so as to smother it, the better. Toward the last of October a trench some eighteen inches deep and twelve inches wide is prepared in some dry place where drainage is perfect so that no water can stand in it, and the celery is dug and packed in upright as it grew, considerable soil being left upon the roots that they may continue to grow and keep crisp. This row is now covered with boards and over them a layer of refuse straw or leaves to keep out the frost. In this way it may be left out over winter, if frost, water and mice are kept out.

There are many different varieties in cultivation, yet they do not differ so greatly from each other as the varieties of most vegetables. We think the excellence of celery depends more upon the care which it receives in growing than upon the variety, yet there are some kinds better than others. The accompanying engraving shows a new variety of solid white celery of medium height, which we are growing, and which we call the La Plume Chestnut. It is very robust, has large thick stalks, heavily ribbed, and is certainly one of the best.

#### Mangel Wurzels.

It is very remarkable that our American farmers, as a class, and particularly those who keep large stock farms, pay so little attention to root cultivation. All English farmers depend as largely upon their turnips and rutabagas for wintering their stock as upon their hay and grain crops. In our own country, although the turnip crop is found highly remunerative, Mangel Wurzels and Sugar Beets, as a rule, give better satisfaction, as the land is capable of





WEBB'S KINVER MANGEL WURZEL.

giving a larger yield and these roots are more nutritious, and are adapted as food to a larger range of animals. To produce them profitably several points must be kept in mind. *First*, the land must be deeply plowed and finely pulverized. *Second*, beware of working it when too wet, or it will certainly be hard and lumpy. *Third*, use plenty of manure. *Fourth*, do not crowd the plants in the rows. *Fifth*, keep them worked and clean. The main thing is to keep the soil rich and well pulverized. Throw it up into slight ridges three feet apart, on which drill in the seed with a seed sower at the rate of about five pounds per acre, and cover half an inch. As soon as fairly up, run a cultivator through between the rows to destroy the small weeds. Do not expect the plants to appear with much regularity or evenness. In many places they will be found too thick and some gaps may be found where none at all will appear. One good plant should stand every two feet in the drill, the surplus being cut out with the hoe, reserving enough good plants to set in where there are none.

They should be sown as early in May as

you can get them in, as the seeds are slow to germinate, at best, and are sure to come more evenly if sown early. The Norbitan's Giant and Yellow Globe have been standards in this country for years, the former growing much out of ground and producing a larger yield than any other kind on very rich upland, while the latter seems to thrive best on sandy, flat lands. Webb's Kinver, a new English variety, has made quite a sensation of late, being a half-long, yellow variety, of beautiful proportions, which is said to outyield any other. The White Sugar variety is undoubtedly the most nutritious.

### Something about Carrots.

Carrots may be very easily and cheaply grown if the soil is suitable and properly managed. A very deep rich sandy loam is most suitable for carrots and most other root crops. Fresh manure, or manure applied just before planting should be avoided as it tends to cause the roots to sprangle and grow ill-shaped. Land that has been heavily manured the previous season for some other crop, which has been kept clear and free from foul weeds, if such a place is attainable, is the spot to select for your carrots. Do not plow the ground until it has become thoroughly dry. If the soil for any garden crop is worked too soon it becomes hard and lumpy in consequence. Throw it up into slight ridges three feet apart and leave until ready to sow the seeds. Rake off the ridges just previous to sowing the seeds, so as to have fresh, moist soil for them, and sow with a turnip drill. A great mistake is made by many planters in crowding the rows of root crops too closely together. Nothing of this kind should be too close for horse cultivation. After the plants are up they require about the same treatment as given elsewhere for mangel wurtzels, except that the carrots may stand twice as close in the rows. The selection of varieties must be governed by the disposition to be made of the crop. The White Belgian will produce a greater yield, and on account of growing partly out of the ground, is more easily pulled than any other. It is calculated simply as food for horses, and for these reasons to be preferred.





THE DANVERS CARROT.

For table and market purposes and for feeding cows to give the milk and butter a good color, the orange varieties are used. *Long Orange* has for years been considered a standard, but recently growers around Danvers, Mass., where thousands of bushels are annually produced, have originated a variety called the DANVERS which, while it has the color and fine quality of the *Long Orange*, is shorter and thicker, thus capable of producing a much larger yield per acre. The accompanying cut gives a fair representation of this variety.

#### Brill's Am. Yellow Ruta Baga.

We have been for a long time on the lookout for what we might honestly call "the best Yellow Ruta Baga," and so far as we can judge by comparison with varieties from various localities, think the above comes nearest to filling the bill of anything we have tried. It is very certain it makes roots not only of large size and smooth, but of a quality which for tenderness and crisp-

ness far surpasses most varieties in cultivation. It is the result of close selection and many years of careful cultivation, by Mr. Francis Brill, a gentleman who has devoted many years to seed growing, and we certainly must agree with him in thinking, all things considered, it comes nearer perfection than any other yellow variety with which we are acquainted. We would earnestly invite our friends to give it a trial.



BRILL'S AMERICAN YELLOW RUTA BAGA.

#### The Next State Fair.

The next Pennsylvania State Fair is to be a big one "and don't you forget it." The society has decided to offer premiums amounting to \$40,000, distributed as follows: For sheep, \$6,000; horses, \$7,000; cattle, \$8,500; swine, \$3,000; poultry, \$1,000; dairy products, \$1,500; the balance to machinery, fruits, seeds, etc. No money will be lavished on the race-course, but prizes will go to encourage legitimate and useful stock breeding. The fair proper will be held from September 6 to 18, and then the International Sheep Show begins and will continue a week longer. Bear in mind that the State Fruit Growers' Society and the Dairymen's Association are co-operating to make the coming exhibition a representative one in their different lines. The show is "open to the world," and will be really international in its character. It will be the best State Fair ever held on this Continent. PRACTICAL FARMER.



### Horticultural Notes.

**FODDER CORN.**—Probably among all the new forage plants which have claimed the attention of American farmers during the last few years, nothing has yet appeared which for practical value equals what is termed "fodder corn"—that is, any good variety of sweet or common corn sown thickly in drills three feet apart. It is also a good crop with which to cleanse foul or weedy soil, as it will grow thickly enough to effectually smother even quack grass and Canada thistles.

The land should be plowed deeply and put in good order. Strike furrows three feet apart and scatter fine manure liberally in them. Then scatter the kernels on the manure at least twenty to the foot. Narrow up your cultivator and run it along the rows, thus mixing the manure, soil and seed together. Cultivate once or twice while the corn is small and it will soon take entire possession of the soil to the exclusion of everything else. If planted by the middle of May it will furnish profitable food for cows during August, when pastures are usually scant and dry. Cut before frost and cure thoroughly in shocks before drawing to the barn.

**POTTED STRAWBERRY PLANTS.**—It has of late become very fashionable to purchase strawberry plants which have been started in pots, and people are led by those who advocate this plan, to believe that they can gain a year's time in obtaining a crop by setting potted plants in August or September. Now this is all very well and we have naught to say against the system provided you can afford it, but it appears to us that the object sought can be attained in another way with far less expense and full as great satisfaction. In the first place the purchaser is required to pay nearly double what good layers of the same variety can be sold for, and secondly, as they must occupy nearly three times the space in boxing for shipment, the express charges are correspondingly heavy. All that is gained is to have a rooted, growing plant to set, which will continue to grow without interruption when placed in the garden rows. Experience has shown us that the same end may be attained by purchasing layers in the usual manner and potting them yourself upon arrival. You thus save about fifty per cent. upon first cost and full more upon transportation charges, and by keeping the plants two or three weeks in the pots they are as certain to live and will then do as well in every respect as those which have been potted before shipment. Try both plans and in our opinion you will purchase no more potted plants.

**THE CUTHBERT RASPBERRY** seems to be allowed by common consent to occupy a position at the head of the list, at least of all red varieties, it being considered without exception the hardiest, handsomest, best and most productive. The editor of the *RURAL NEW YORKER* thinks there is no question about this.

### Setting Strawberry Plants.

Our customers quite frequently report an entire failure after setting strawberry and other similar

plants that have been transported long distances by mail or express. Upon inquiry, we find they take the plants directly to the field or garden and set them where they are intended to remain. From our own experience in setting plants which we have received from abroad we are convinced that the ultimate success or failure depends almost entirely upon the manner in which they are taken care of after being received. Our practice is, instead of planting them directly in the garden, to first set them in pots, or what will answer just as well, a box of rich, mellow soil, quite closely together, say six inches apart where they can be kept partially shaded and frequently watered. In this manner every plant may be made to start and grow when all would have died had they been put at once in garden rows. After they have formed new roots and are growing nicely, they may be carefully removed to their permanent positions and they will be found almost equal to potted plants.

### Blanching Asparagus.

Tuisco Greiner says he has found the practice of placing a conical ridge of sawdust over his rows of asparagus to the depth of eight or ten inches in such a manner that the new shoots will have to grow up through it, produces the finest and tenderest stalks, in some instances thirteen inches in length by one inch in diameter and blanched to the very tip. He reports himself as highly pleased with this method of cultivation, and we certainly do not see why it will not work admirably.



BRUSSELS SPROUTS.

This is a member of the cabbage family grown to a considerable extent among Germans, but looked upon as more curious than useful by most Americans. The buds which grow on the sides of the main stem are cooked similar to cauliflower or used raw as a salad.





THE HUBBARD SQUASH.

### Growing Squashes.

In the January number of SEED-TIME AND HARVEST we promised to give some notes in this issue concerning our method of growing squashes. There are few garden crops the product of which finds a more ready sale in our markets than good winter squashes. There have been several varieties introduced within the past few years, which possess many fine qualities, the most notable being the Marblehead, which is a most excellent keeper, and the Butman, which is very sweet and good. but for market purposes the Hubbard, which is shown in the above engraving, is probably the most profitable, for the reason that it will produce as great if not greater yield per acre than most others, and being better known will find a more ready sale. One peculiarity about squashes sometimes overlooked, is that the running vines take root at every joint and get much of their sustenance from these points. For this reason it is necessary that the soil should be manured broadcast as well as

in the main hills. The great enemy to squashes is the bug, which not only devours the leaves soon after coming up, but deposits eggs which hatch into the well-known worm or borer, which soon destroys them. The best bug remedy that we have found is to place strong manure in a cask at time of planting the squashes and cover it with water, allowing it to stand in the sun and ferment until needed. The mixture must then be stirred until about the consistency of cream. Sprinkle the vines thoroughly with this every morning, dusting them immediately afterwards with soot or plaster. The strong smell or taste of the fermented manure disagrees with the bugs to such an extent that they willingly let them alone. After the vines get larger and commence running they should be watched, and whenever the large bugs can be found on the under side of the leaves destroy them or they will multiply rapidly. Here you have our method of growing squashes, in a nutshell.



LENORMAND'S SHORT STEM CAULIFLOWER.



## Seed-Time and Harvest.

ISSUED QUARTERLY.

ISAAC F. TILLINGHAST  
EDITOR AND PUBLISHER.

TERMS. Twenty-five Cts. per year, or,  
5 copies for \$1.

*Advertising Rates:* Each insertion, \$30. per page, \$15. per one-half page, \$8. per one-fourth page, and 25 cents per line, nonpareil, for less space.

Address all communications,  
SEED-TIME AND HARVEST.  
LA PLUME, LACKAWANNA CO., PA.

APRIL, 1880.

It was with no little misgiving and fear of the possibility of unpleasant results, that the first number of *Seed-Time and Harvest* was offered to an indiscriminate public, in January last, for approval or condemnation. It now gives us the greatest pleasure to announce, in again appearing, that our little venture is an assured success, and *Seed-Time and Harvest* may be counted as a periodical which shall "never fail" to make its appearance to the pleasure and gratification we hope, of many thousands of readers.

We must here return our most grateful acknowledgements to the many friends who have generously sent in their subscriptions, and especially to those who have encouraged us with cheering words, showing that our endeavors to please and instruct have not been wholly in vain. The large number of subscriptions already received will enable us to offer our little magazine upon much more favorable terms than those announced in the previous issue. Fearful of underestimating the cost of carrying out our undertaking, we at first put the price at fifty cents per year and offered a packet of choice seeds free with each number. It soon became evident to us that this plan would not prove as satisfactory to our friends as to allow each one to select from our seed-list whatever might suit his particular fancy. We therefore

hereby announce that we shall discontinue our seed premiums as supplements, and now offer *Seed-Time and Harvest* upon the following exceedingly liberal terms, which ought at once to add thousands of names to our subscription list: First, *Seed-Time and Harvest* will be sent for one year to anyone remitting 25 cents, or five copies for \$1.00. Secondly, anyone remitting fifty cents, may receive, in addition to his year's subscription, his own selection of *seeds in packets* from our lists to the amount of the money sent. A certificate for the amount will be returned to each person so entitled, which we will receive as so much cash in payment for seeds in packets at any time during the year. Thirdly, any person who sends us one dollar or more for seeds, plants, or any other goods kept by us, will receive *Seed-Time and Harvest* free for one year. Thus, while we drop our seed premiums as such, parties remitting fifty cents will not only receive the seeds as before, but will have the privilege of making *their own selection* and receiving them all at once, if desired, instead of one packet each quarter, and we hope that we shall succeed in making our publication sufficiently interesting and valuable to make it something of an inducement to become a patron to the amount of one dollar or more and thus receive it free.

All who have subscribed under the terms offered in our last number and are expecting the premium seeds, shall receive them as promised with this and succeeding numbers, or a certificate for the amount due, which will give them the benefit of the change of terms.

Now, Kind friends, please give our little journal a fair consideration. Is it not worth to you all we ask you to pay for it? Four names can easily be secured in almost any locality and you will thus secure for yourself a fifth copy free of cost. Of course we shall occupy some space in each issue with our own advertisements, otherwise we could not furnish so costly a publication for so little money. But does this detract anything from its value to you? You will no doubt occasionally want just the articles we offer, and if we furnish a satisfactory



article at a fair price, is it not profitable to you to have our announcements for reference? Please consider this a personal appeal and kindly respond, if in your power, and see if it does not prove of mutual advantage to all concerned.

### Hardy Anemones.

We take great pleasure in presenting an engraving (see frontispiece) and calling the attention of our floral friends to an interesting class of plants, as yet but little known in this country, but which, for earliness, brilliancy and duration of bloom, are unexcelled in the whole floral kingdom.

The genus *Anemone* includes many species of plants which differ greatly in size and color as well as in general habit. The most common plant belonging to this species which is found in America, is the *Hepatica Triloba*, or three-lobed liverwort, so abundant in early spring upon all our wooded hills, which grows but a few inches in height. The *A. Fulgens* and *A. Coronaria*, shown in our engraving, are the most brilliant and beautiful of all, but as yet very rare. No plant can compete, in early spring, with these splendid varieties. The flowers are large, of a dazzling vermilion or scarlet color, in bloom in this latitude from March till May, making them very valuable for bouquets. They are quite hardy, standing our rigorous northern winters with but little protection. The roots may thus remain in the ground for several years, but it is preferable to transplant them every year or two, thus freshening them by dividing and cutting off the old lumpy growth. They thrive best in good, loose, loamy soil, slightly shaded from the mid-day sun. The roots may be planted in either autumn or spring, but in order to obtain a fine show of flowers early in spring they ought not to be planted later than September. Seeds sown in April or May will form plants that will bloom early the following spring. We know of no class of plants more interesting to either the amateur or professional gardener, than the various species of *Anemone*. The plants of *A. Coronaria* grow to about one foot in height. The flowers are large and brilliant, running through various shades of scarlet,

purple, blue, white and striped, and quite often with an eye of a different hue from the rest of the flower. In our next issue we shall show a double variety of this truly splendid flower.

### How You Can Get It.

Our readers will notice, as elsewhere announced, that we have decided hereafter to give a year's subscription to SEED-TIME AND HARVEST free to all whose names appear upon our books as customers. Should you desire to accept the publication upon these liberal terms and not be at present in want of anything offered by us, send us fifty cents, or as much more as you can conveniently spare, that you think you will be willing to invest in our line of goods within a year, and we will, upon receipt of it, enroll your name upon our subscription books and forward to you by return mail a certificate for the whole amount sent, which you can preserve until ready to order something from us, when we will accept it in payment for goods just the same as so much cash. This will give you all the numbers as they appear and will relieve us from the trouble of keeping an account with you. If you do not wish to do this send us 25 cents and receive the magazine regularly. We think it will be worth that much to any one interested.

### Behind Time.

At the very liberal rate at which we now furnish it, (free to all customers) there is, of course, little or no profit to us in the publication of SEED-TIME AND HARVEST; hence, in order to sustain it upon these terms, we are obliged to have all the work of printing and binding done in our own establishment. Just at this season of the year, with the filling of orders inside and the planting outside, all our forces are driven to the utmost and the present issue has thereby been delayed far beyond the time at which it should have appeared. Hereafter we shall strive to have each number in the mails by the first of the month in which it is dated.

Can you not show this number to some Friend or Neighbor who is interested in the cultivation of choice Flowers and Vegetables, calling attention to our new terms?



## The Flower Garden.



SCABIOSA.

THE SCABIOSA OR MOURNING BRIDE is an interesting and very showy class of hardy annuals, excellent for beds or groups, and also useful for cut flowers. They are of various colors, including white, rose, crimson and purple shades. It is not a new flower, but is highly valued as an old and tried friend. The different varieties vary from 12 to 18 inches in height. Seed may be sown early under glass or in the open ground in May or June. Strong young plants often stand over winter and blossom freely the second season.



WALL FLOWER.

THIS is a popular half-hardy, perennial plant with bright, showy flowers, which are formed in massive, conspicuous spikes. They are deliciously fragrant and highly prized. In mild climates the plants stand the winter, producing their flowers in early spring. James Vick says that in the south of Germany and England, in spring, the gardens are gorgeous with wallflowers, while the fragrance peculiar to this flower perfumes the air. By growing plants in the ground and transplanting to pots in autumn, or better, by placing the young plants in pots when taken from the seed bed, good plants will be secured for winter flowering in the house.



ESCHSCHOLTZIA.

The above engraving represents the *ESCHSCHOLTZIA CALIFORNICA*, or California Poppy, an old free-blooming annual, whose flaky, yellow flowers are produced in the greatest abundance and last the whole season through, or until the severe frosts of autumn cut them down. The seeds of this plant should be sown where they are to remain, as the roots have but few fibers and are consequently very difficult to transplant successfully.



CELOSIA CRISTATA.

THE *CELOSIA*, or Cock's Comb, is an old and well-known plant which from its singular form must prove interesting to all cultivators. The old and well-known forms have been greatly improved and changed of late, and some very peculiar varieties are now offered. The seeds should be sown in the open ground where they are to remain, after the soil has become thoroughly warm. Although they start late, they grow rapidly in any soil having a sufficient amount of heat. We offer a mixture of several colors of the old variety, besides two new ones, which are variegated and feathered in a singular and interesting manner.





NEMOPHILA DISCOIDALIS.

THE NEMOPHILAS are among the most charming and useful of our dwarf-growing, hardy annuals. All the varieties have a neat, compact and uniform habit of growth, with shades and colors the most strikingly beautiful, so that ribboned, sown in circles, or arranged in any style which the fancy may suggest, the effect is pleasing and satisfactory. This plant is a native of cool, moist situations on our western rivers, and to flower successfully should be set about six inches apart, in a cool, partially-shaded location, as our hot summer suns affect them disastrously, if fully exposed.

The NEMOPHILA DISCOIDALIS, shown in the upper engraving, is of a beautiful, rich, velvety black, edged with white, while the N. MACULATA has much larger flowers, of pure white color, blotched with violet. There are a number of other varieties, the most beautiful and interesting among them being N. INSIGNIS, a clear, bright blue, with a white center.



NEMOPHILA MACULATA.



PHLOX DRUMMONDII.

THE ANNUAL OF Drummond Phlox is certainly unsurpassed for brilliancy and duration of bloom among all the flowers with which we are acquainted. They include the greatest imaginable variety of colors and the greatest profusion of bloom. The seeds may be sown under glass in April, or in the open ground in May, and in either case they will produce a magnificent display throughout the whole summer and until late in autumn. The single colors are used to good advantage in bedding, as almost any design may be wrought by making a combination of them. But for most uses a selection of fine mixed varieties will give greater satisfaction. There are few flowers more extensively grown or more greatly admired.



AGERATUM MEXICANUM.

THE AGERATUM is grown principally by florists for use as a cut-flower, not being very showy in the garden, but working up to excellent advantage in making floral wreaths and other ornaments. It is a native of Mexico, hence it will stand our hottest weather without injury. There are two varieties in general cultivation, one a light, sky blue, and the other a pure white. The flowers remain in bloom for a long time and keep well after being cut. The cut flowers, when massed together, make a beautiful, velvety background on which to display other more brilliant flowers in making floral ornaments for exhibition purposes. It is also a splendid addition to small bouquets.



**Publisher's Department.**

**Seed-Time and Harvest**

*Clubbing List for 1880.*

The best advertising medium is a pleased patron. Small profits and fair dealing defy competition. Old seeds do not satisfy old patrons or make new ones.

In our house a guarantee means something. If our seeds do not satisfy you we will refill your order.

Should you receive more than one copy of our Catalogue please have the kindness to hand those you do not need to some one who is interested.

Our Flower-seed List comprises the choicest varieties to be procured at home or abroad. All packets not otherwise priced are but Five Cents each.

Amounts not exceeding One Dollar may be sent in a common letter at our risk. If over one dollar Register the letter, or buy a Money Order and deduct the fee—10 cents—from the amount enclosed.

In comparing our prices with those of other growers please do not overlook the fact that our quotations include the prepayment of postage. The amount we charge will bring our seeds to your door.

In writing to us never fail to plainly write your full Name and Address. Don't think that because you have written to us before, our clerks can remember where you belong or who you are. Tell us every time.

We accept Postage stamps when sent but continually receive more than we can use. If you will send us even dollars in currency we will return your exact change. If you must send stamps, send one-cent stamps if possible.

We do not care to boast of handling more tons of commercial seeds than any other firm in the country. We much prefer to sell a limited amount of pure fresh seeds to a few hundred good customers on whom we can depend after they have learned that they can depend upon us, than to flood the country with stock that we know little or nothing about. We think it better to sell seeds which are worth all you are asked to pay for them and live on a fair profit, than to sell a cheap purchased article at a large margin and then have to expend the profits in newspaper advertising in order to drum up new customers for the future.

AGENTS WANTED.—For the purpose of introducing our seeds as extensively as possible we have made a magnificent offer, which you will see upon another page. We now want an agent in every town to show our magazine and solicit orders under this offer. If you will get four of your friends to subscribe and pay 50 cents each for the magazine and seeds, we will send you a fifth copy with seeds free for your trouble. Specimens free upon application.

OUR OFFICE is now fitted up with a full supply of Presses and modern job printing materials sufficient to do all our own work and considerable job work for any of our friends who may want neatly executed price-lists, &c., at a moderate cost. We give this publication as a sample of our work and invite correspondence from any one in need of job printing of any kind. Address all orders and inquiries to

SEED-TIME AND HARVEST.

LA PLUME, LACK'A CO., PA.

FOR MANY YEARS we have taken subscriptions for the principal Journals of the United States, and especially those devoted to Agriculture and Horticulture. By taking large numbers of subscriptions we are enabled to get publishers' lowest rates, and when we are enabled to do so we give our patrons the benefit of the deduction. In such cases our prices are frequently lower than any one could possibly secure except through a large club like ours. On some papers we can give no discount as the publishers have no clubbing terms, but we put them on our list because we think they are well worth all they cost. We give below a list of standard publications for which we receive subscriptions and the price of each. We club SEED-TIME AND HARVEST with any of them for 15 Cents additional to the price in the second column.

Please see if there is anything in this List that you need, and, if so, we should be glad to receive your order.

THE FIRST COLUMN gives the Publishers' price, and the *Second Column* our price.

American Agriculturist, M.....	\$1 50	\$1 25
American Cultivator, W.....	2 00	1 75
American Bee Journal, M.....	1 50	1 25
American Rural Home, W.....	1 50	1 40
Atlantic Monthly.....	4 00	3 50
Coleman's Rural World, W.....	1 50	1 40
Country Gentleman, W.....	2 50	2 25
Demorest's Monthly.....	2 50	2 00
Demorest's Monthly with Premium.....	3 00	50
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Fireside Companion, W.....	3 00	2 60
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Fruit Recorder M.....	1 00	75
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Harper's Magazine, M.....	4 00	3 40
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Home and Farm, S. M. See Special Offer.....	50	50
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## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**ARTHUR'S HOME MAGAZINE.**—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**DEMOREST'S MONTHLY.** devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**PETERSON'S MAGAZINE.** Chas. J. Peterson & Co., Philadelphia, comes again with its monthly greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

**LIPPINCOTT'S MAGAZINE.** J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PHRENOLOGICAL JOURNAL.** S. R. Wells, & Co., New York, ranks ahead of any other in America in its specialty. Each number contains a fine portrait of some gentleman of note, with an analysis of his character, and much other matter of interest to every one who would know himself.

**THE PRAIRIE FARMER.** A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 78 Duane Street, New York.

**VICK'S MONTHLY MAGAZINE.** Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**THE GARDENER'S MONTHLY AND HORTICULTURIST.** Edited by Thos. Mehan and published by Charles H. Marot at Philadelphia Pa., at \$2.10 per year. It gives full instructions in the science and practice of every branch of gardening.

**THE AMERICAN CULTIVATOR.** Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE LADIES' FLORAL CABINET** is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.

**Semi-Tropic California,** monthly. Carter & Rice, Los Angeles. \$1.50 per year, devoted to the agricultural interests of the Golden State, is edited with the usual "snap" for which the great West is noted.

**The Housekeeper,** Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**THE HERALD OF HEALTH.** Wood and Holbrook, 15 Laight St., New York. One of the oldest and best sustained health publications issued. Has an excellent corps of eminent writers who strive to elevate the mind as well as strengthen the bodies of mankind.

**HALL'S JOURNAL OF HEALTH.** New York. This publication differs in the fact that it is composed entirely of short and concise editorial articles upon the most common causes of loss of health, and best methods of regaining it. Ought especially to be read by the young.

**THE AMERICAN BEE JOURNAL.** Monthly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$1.50 per year.

**THE SCIENTIFIC NEWS,** published bi-weekly by Mr. S. H. Wales & Son, N. Y., should be in the hands of every mechanic. It is devoted to Science, Arts, Inventions, Patents, Shop and Household economy. It is finely illustrated. \$1.00 per year.

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**The Poultry Monthly,** published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

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All our seeds are WARRANTED to the amount paid for them only.

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Large Rooted.....	05	15	.30	1.00
<b>Cress.</b>				
Curled, or Peppergrass.....	05	10	.25	.75
Water Cress.....	10	60		
<b>Egg Plant.</b>				
Long Purple.....	10	40		
Improved N. Y. Purple.....	10	60		
<b>Kohl Rabi.</b>				
Early White Vienna.....	10	35		
<b>Lettuce.</b>				
Hanson.....	05	35		
Victoria.....	05	35		
Early Curled Simpson.....	05	35		
True Boston Market.....	05	35		
White Seeded Tennisball.....	05	35		
Black Seeded Tennisball.....	05	35		
Drumhead, or Malta.....	05	35		
<b>Leek.</b>				
Large Scotch Flag.....	05	20		
<b>Musk Melon.</b>				
Nutmeg.....	05	10	.30	1.00
Skillman's Netted.....	05	10	.30	1.00
Ward's Nectar.....	05	10	.30	1.00
Improved Yellow Cantaloupe	05	10	.30	1.00
Green Citron.....	05	10	.30	1.00
Pine Apple.....	05	10	.30	1.00
Jenny Lind.....	05	10	.30	1.00
Surprise, [New].....	10	30		
<b>Water Melon.</b>				
Phinney's Early.....	05	10	.30	1.00
Striped Gipsej.....	05	10	.30	1.00
Ice Cream.....	05	10	.30	1.00
Mountain Sweet.....	05	10	.30	1.00
Ferry's Peerless.....	05	10	.30	1.00
Citrus, (for preserving,).....	05	10	.30	1.00
<b>Mustard.</b>				
White French.....	05	05	.15	0.50
Black American.....	05	05	.15	0.40
<b>Onion.</b>				
Extra Early Red Globe.....	05	25	1.00	4.00
Yellow Danvers.....	05	35	1.25	4.50
Red Wethersfield.....	05	25	.70	2.50
Large Yellow Dutch.....	05	25	1.00	4.00
White Globe.....	10	25	1.00	4.00
White Portugal.....	05	25	1.00	4.00
New Queen.....	10	25	1.00	4.00



<b>Parsnip.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>4-Oz.</i>	<i>Lb.</i>
Hollow Crowned.....	05	10	.25	0.75
Smooth Dutch .....	05	10	.25	0.75

<b>Parsley.</b>	<i>Pkt.</i>	<i>Oz.</i>
Extra Fine Curled .....	05	15

<b>Pepper.</b>				
Sweet Bell or Bull Nose.....	10	30	1.00	4.00
Large Sweet Mountain.....	10	20	1.00	4.00
Red Cayenne .....	10	30	1.00	4.00
Spanish Monstrous (New) ....	10	40		

<b>Pumpkin.</b>				
Large Cheese.....	05	10	.25	0.75
Sugar. (Best for pies,) .....	10	20		
Connecticut Field .....	05	05	.15	0.35

<b>Radishes.</b>				
Early Scarlet Turnip .....	05	10	.30	0.90
Early White Turnip .....	05	10	.30	0.90
Long Scarlet Short-Top.....	05	10	.30	0.90
Early Scarlet Olive .....	05	15	.35	1.00
French Breakfast.....	05	10	.30	1.00
China Rose Winter .....	05	10	.30	1.00
Black Spanish Winter .....	05	10	.30	1.00
California Mammoth White..	05	15	.40	1.40
Grey Summer Turnip.....	05	15	.40	1.40
Golden Yellow Summer (New)	05	15	.50	1.50

<b>Salsify, or Vegetable Oyster.</b>				
White French.....	05	25	.75	3.00

<b>Spinach.</b>				
Round Leaved .....	05	10	.20	0.50
Monstrous Viroflay .....	05	10	.25	0.65

<b>Squash.</b>				
Early White Bush .....	05	10	.30	1.00
Summer Crookneck .....	05	10	.30	1.00
Hubbard.....	05	15	.40	1.25
Marblehead .....	05	15	.40	1.25
Butman, (New,) .....	05	15	.40	1.25
Cocanut, (New,) .....	10	30		
Mammoth .....	10	30		

<b>Tobacco.</b>		
Connecticut Seed Leaf.....	10	30
Kentucky Broad Leaf.....	10	30

<b>Turnip.</b>				
Early White Dutch.....	05	10	.25	0.75
Purple Top Strap Leaf.....	05	10	.25	0.75
Long White Cow Horn .....	05	10	.25	0.75
Yellow Aberdeen .....	05	10	.25	0.75
Yellow Globe .....	05	15	.25	0.75
Golden Ball.....	05	10	.25	0.75

<b>Rutabaga, or Swede Turnip.</b>				
White French, or Sw't German	05	10	.25	0.75
Skirving's Purple Top Yellow	05	10	.25	0.75
Brill's American Yellow .....	05	10	.25	0.75
Shamrock Swede, Yellow.....	05	10	.25	0.75

<b>Tomato.</b>	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>
Acme, [New,] .....	05	0.25	0.50
Red Chief, [New,] .....	05	0.25	0.50
Red Currant .....	05	0.25	0.50
Paragon .....	05	0.25	0.50
Canada Victor .....	05	0.15	0.30
Conqueror .....	05	0.15	0.30
Hathaway's Excelsior .....	05	0.15	0.30
Trophy .....	05	0.15	0.30
Arlington .....	05	0.15	0.30
Green Gage.....	05	0.15	0.30
Golden Trophy .....	05	0.20	0.40
North Star, (New) .....	25		

<b>Herb Seeds.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Pkt.</i>	<i>Oz.</i>
Coriander .....	05	.20	Dill.....	05 .25
Horehound.....	10	50	Sage .....	05 20
Summer Savory... ..	10	30	Saffron....	05 25
Sweet Marjoram..	10	40	Lavender .	10 30
Caraway .....	05	15	Sweet Basil	10 40
Sweet Fennel.....	05	20	Thyme....	10 50

**Grass Seeds.**  
Timothy, Clover, &c., at Market Rates.



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation. They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

**EXPLANATION.**—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—  
a.—annual. b.—biennial. c.—climber. e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

### Price per Packet.

All packets are **Five cents** each unless otherwise quoted.

Abronia umbellata, rosy lilac, a.....	.05
Acroclium album, white, a. e.....	
..... roseum, rose, a. e.....	
Adonis vernalis, scarlet, a.....	
..... autumnalis, crimson, a.....	
Ageratum Mexicanum, blue, a.....	
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa. p.....	.05
..... alba, white, p.....	
..... atro-sanguinea, crimson, p.....	
Alyssum maritimum, sweet, white, a.....	
Amaranthus caudatus, crimson, a.....	
..... melancholicus ruber, d'k crimson	
..... salicifolius, scarlet and purple, a.....	.10
Ammobium alatum, (Immortelle,) white, e.....	.05
Anemone coronaria, p.....	.15
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a. 10 colors mixed,.....	
Aquilegia hortensis, double, m. p.....	.10
..... chrysantha, new golden-spurred.....	.15
..... finest varieties mixed.....	.10
Aster, pœony-flowered, extra fine, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau, m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05
Cacalia, (Tassel Flower,) scarlet and yellow a.....	
Calandriana grandiflora elegans, rosy pink a.....	
Calceolaria scabiosæ-folia, new, p.....	.10
Callirhoe pedata nana, purple crimson, a.....	.05
Campanula trachelium, double, b.....	.10
..... nobilis alba b.....	.10
..... medium, (Canterbury bells,) double.....	.05
Candytuft, rocket selected, m, a.....	



Candytuft fragrant m. a. .... 10  
 ..... hybrid dwarf. m. a. .... 05  
 Canna Indica, 5 colors mixed, a. .... 05



Carnation, double picotee, m. a. .... 15  
 ..... early dwarf m. a. .... 10  
 Celosia cristata, —cockscomb— 6 colors mixed 05  
 ..... variegata new, m a ..... 10  
 ..... crimson, gold and fire-feathered, m a. 10  
 Centaurea Babylonica, new p. .... 10  
 ..... cyanus minor m p. .... 05  
 Centranthus macrosiphon m a .....  
 Chrysanthemum carinatum, m a. ....  
 ..... double white new 10  
 ..... Indicum grandiflorum, m p .. 10  
 Clarkia pulchella m a .....  
 ..... elegans, new double, pure white ..... 15  
 Cobæa scandens, purple c p ..... 10  
 Coix lachrymæ, Job's Tears, ..... 05  
 Colutea floribunda .....  
 Collinsia multicolor marmorata, a m .....  
 Convolvulus minor, m a .....  
 ..... major, Morning-glory, m a .....  
 Coreopsis tinctoria m a. ....  
 Cucurbita, Ornamental gourds, m a .....  
 Datura fatuosa, double purple a .....  
 ..... white a .....  
 ..... Wrightii, new double, a .....  
 Delphinium (Larkspur,) dwarf double, m a. ...  
 ..... tall German rocket .....  
 ..... dwarf branching double, 10  
 Dianthus dentosus hybridus, m a b ..... 10  
 ..... siensis double m a b ..... 10  
 ..... barbatus, [Sweet William,] p m ..... 05  
 Digitalis gloxinoides, spotted, white & crimson  
 Eschscholtzia Californica, yellow a .....  
 ..... tenuifolia, new a .....  
 Eutoca Wrangeliana, low blue annual .....  
 Geranium, zonale and inquinans mixed, a p .. 15  
 Gilia tricolor, blue white and lilac m a ..... 05  
 Globe Amaranth 6 colors m e a .....  
 Godetia, Lady Albemarle, new large crimson a 15  
 ..... roseo albo Tom Thumb a ..... 05  
 Helichrysum lucidum m a e .....  
 ..... dwarf m a e .....  
 ..... monstruosum double m a e .....  
 Helianthus globosus fistulosus a .....  
 ..... Californicus, double a, .....  
 Helipterum Sanfordii, yellow everlasting, ..... 10  
 Hollyhock Chinese double a ..... 10  
 Honeysuckle, Hedysarum coronarium m a ..... 05  
 Ipomœa Quamoclit, Cypress vine m a .....  
 Jacobœa, Senecio elegans double m a .....  
 ..... dwarf double m a .....  
 Lantana hybrid m .....  
 Linaria bipartita flora albo a .....  
 ..... purpurea, snapdragon a .....  
 Linum grandiflorum roseum a .....  
 Lobelia Erinus grandiflora superba .....  
 Lupins, Dunnettii superbus, new a .....  
 ..... tricolor elegans new a .....  
 ..... polyphyllus mixed p .....  
 Lychnis chalcædonica, white and scarlet m p ..  
 ..... Haageana hybrida new p ..... 10

Marvel of Peru hybrid, Four o'clock, m a ..... 05  
 ..... mirabilis jalapa a .....  
 Marigold African double m a .....  
 ..... French ..... m a .....  
 Mignonette, Roseda odorata, sweet-scented a ..  
 ..... large-flowering a .....  
 Mesembrianthemum, Ice plant, a .....  
 Mimulus cupreus hybridus extra a ..... 10  
 Nemophila insignis, blue with white center a .. 05  
 ..... discordalis, black—white margin a .....  
 ..... elegans —very brilliant— a ..... 10  
 ..... maculata white and purple a ..... 05  
 Nigella Damascena, Love in a mist, a. ....  
 ..... Hispanica a .....  
 Oenothera Drummondii, Evening Primrose a ..  
 ..... macrocarpa .....  
 ..... acaulis ..... 10  
 Pansy large flowering, very fine mixed, a p .. 10  
 Pas sweet ..... 15 cts. per oz ..... 05  
 Petunia hybrid, very fine mixed colors a p ...  
 ..... double striped ..... 25  
 Phlox Drummondii splendid mixed colors a .. 05  
 ..... perennial .....  
 Portulaca grandiflora m a ..... 05  
 ..... double extra m a ..... 15  
 Primula Japonica, new Japanese primrose a b 1  
 ..... elatior, cowslip m a b ..... 0  
 Rodanthe Manglesii, everlasting m a .....  
 ..... maculata ..... m a .....  
 Ricinus sanguineus, castor oil bean a .....  
 ..... major, largest variety a ..  
 Salpiglossis hybrid blue and scarlet m a .....  
 Salvia cæcinea a p .....  
 Scabious major, mourning bride m a .....  
 ..... minor, dwarf double m a .....  
 Silene Armeria, Lobel's catchfly m a .....  
 ..... pendula double rose a ..... 10  
 Schizanthus papilio-aceous m a ..... 05  
 Stocks Brompton m b ..... 10  
 ..... German ten weeks m a ..... 10  
 ..... Parisian ..... m a ..... 10  
 Tagetes lucida m a ..... 05  
 ..... signata pumilla a .....  
 Tropæolum Lobbianum, spit-fire a .....  
 Tropæolum majus, Tall Nasturtium. a .....



Verbena hybrid, extra choice mixed a ..... 10  
 Virginian stock m a ..... 05  
 Wallflower double m p .....  
 ..... pure bright yellow, new ..... 10  
 Xeranthemum annum Imperial double e ..... 10  
 ..... mixed varieties a e ..... 05  
 Zinnia elegans, double m a .....  
 ..... dwarf m a .....

ORNAMENTAL GRASSES.

Agrostis Pulchella. .... 05  
 Briza Maxima. .... 05  
 Gynerium, or Pampas Grass ..... 05  
 Stipa Pennata, or Feather Grass. .... 05  
 Striped Leaved Japanese Maize. .... 05



## New Strawberries

During the past two or three years more advancement has been made in Strawberries by the introduction of greatly improved varieties, than previously for a long time.

We have tested a large number of the newer offerings and are so well pleased with a few of them that we have propagated a supply of fine plants which we offer our strawberry-loving friends on very favorable terms.

### SHARPLESS.

This is regarded as the greatest acquisition yet known among Strawberries. It possesses all the qualities that constitute a Perfect Berry. Plant and leaf monstrous, deep green, vigorous, hardy and prolific, fruit-stalk long and very strong. Berries immense, generally oblong narrowing to the apex, but irregular, quite often flattened, clear bright red, smooth and glossy, firm, sweet, with a delicate aroma.

Sharpless Seedling has now been fruited in many places for two years, and in all instances has sustained to an unusual degree the high praise bestowed upon it by its introducers. The plants were only last season sold at eight and ten cents each. We now offer very fine ones at 40 cents per dozen, \$2.00 per 100 post paid by mail, or \$1.00 per 100, \$8.00 per 1000, by express.

For spring planting we have now nothing left but sharpless which will be supplied at the low rate quoted above.

On and after September 1st we will supply fine plants of the following new and standard sorts at the prices annexed:

By mail post paid. By express.

	Per doz.	Per 100.	Per 100.	Per 1000.
Crescent Seedling	.25	\$1.50	\$1.00	\$5.00
Springdale	.25	1.50	1.00	\$5.00
Sterling	.25	1.50	1.00	5.00
Kerr's Prolific	.25	1.50	1.00	5.00
Great American	.25	1.50	1.00	5.00
Somers's Ruby	.25	1.50	1.00	5.00
Prouty's Seedling	.25	1.50	1.00	5.00
Captain Jack	.25	1.50	1.00	5.00
Cumberl'd Triumph	.25	1.50	1.00	5.00
Boyden's No. 30	.25	1.50	1.00	5.00
Kentucky	.25	1.50	1.00	5.00
Nicanor	.25	1.50	1.00	5.00
Wilson's Albany	.25	1.00	.50	4.00
Col. Cheeney	.25	1.00	.50	4.00
Monarch of West	.25	1.00	.50	4.00

We will send one dozen Sharpless, and three dozen of any other varieties on above list, by mail post paid for \$1.00.

## Celery Plants.

The demand for Celery increases annually in our markets and we find it necessary to increase our plant beds accordingly. We shall this season strive to have the largest and best stock of Celery Plants that we have ever offered at the low price of \$2.50 per M.

VARIETIES: Dwarf White Solid, Boston Market, Giant Solid, and La Plume Chestnut.

ISAAC F. TILLINGHAST, LA PLUME, PA.

## Price-List of Vegetable Plants.

We have for the past ten years probably handled a larger quantity of Vegetable Plants than any other parties in this section of the country, and shall continue to keep a supply on hand during their season.

We have room here for but a few quotations, which will give an idea of our very low prices. Our hot-bed plants will all be transplanted and hardened in cold frames and will give satisfaction.

	Per doz.	Per 100.	Per 1000.
Early Cabbage	15	50	\$5.00
" Cauliflower	15	60	\$6.00
Sweet Potatoes	15	50	\$4.00
Late Cabbage	10	25	\$2.00
Early Tomatoes	40	\$2.50	20.00
" Peppers	25	1.50	10.00
" Lettuce	15	50	5.00
" Celery	10	40	3.00

At the above prices the plants will be carefully packed and delivered to express, to be forwarded at purchaser's expense. When ordered to be sent by mail, add 20 cents per 100 to these prices for postage. If called for at our beds, we will allow a discount of 20 per cent. from these prices.

## LATE Cabbage Plants.

A Great Specialty of our business is growing Cabbage Plants for market gardeners and planters, who find it cheaper to purchase healthy, stocky, well-grown plants of us than to grow them. We shall this season make a seed-bed at least four acres in extent which will produce about six million plants. We are not afraid to compete with the world in prices or quality of plants. To insure freedom from disease we shall use ground never before occupied by any of the cabbage tribe. They will be ready by June 1st, and kept on hand till August. They will be carefully packed in damp moss and boxed so as to carry safely for three days by express, at the following rates: 1000 \$2.00, 2000 \$3.50, 5000 \$8.00, 10 000 or over at \$1.50 per M.

Price at the beds will be \$1.50 per M. regardless of quantity.

VARIETIES. We can supply plants of all the varieties named under head of Cabbages in our seed-list, but shall grow Early Winnigstadt, Fottlers Drumhead, and Premium Flat Dutch in the greatest quantities.

Bear in mind that we can fill orders for *any quantity* and will thank you to remember us whether you want one dozen or One hundred Thousand. Dealers and large planters will be furnished special rates on application. State how many and what kinds you want and we will quote prices.

Tell your neighbors of this PLEASE.

ISAAC F. TILLINGHAST, LA PLUME, PA.



# GLINES' SLATE ROOFING PAINT

—FOR—

## LEAKY ROOFS.

Old shingle roofs can be patched and coated, looking much better and lasting longer than new shingles without the slate, for one-third the cost of re-shingling. The paint is fire-proof against sparks, as may easily be tested. It stops every leak and for tin or iron has no equal, as it expands with heat and contracts with cold. Tar and gravel roofs can be made water tight at a small expense. This Slate Paint is extremely cheap. Two gallons covers a hundred square feet of shingle roof, or five hundred square feet of tin, iron, or other smooth surface. The paint has a heavy body but can easily be applied with a brush. No tar is used in this composition, therefore it neither cracks in winter nor runs in summer.

On decayed shingles it fills up the pores and gives a new, substantial roof that lasts for years. Curled or warped shingles it brings to their places and keeps them there. Our paint, which (for shingle roofs) is chocolate color when first applied, soon changes to a uniform slate color, and, is, to all intents and purposes, slate. On tin roofs red color is usually preferred, as one coat is equal to five of any ordinary paint.

For brick walls it is the only reliable slate paint ever introduced that will effectually prevent dampness from penetrating and discoloring the plaster. For factories, foundries, mills, machine shops, warehouses, engine houses, freight cars, depots, farm and seaside buildings, bridges, stables, fences, etc., etc., it is especially recommended. For these our red, bright red, or yellow are preferred.

## NEW ROOFS!

## NEW ROOFS!

### Glines' Rubber Roofing

can be laid by anyone, and is superior to all other roofing for cheapness, fire-proof qualities and durability. being ready for use, very elastic, and requiring no tar or gravel, is strongly recommended by architects, corporations, public institutions, builders and leading men in all sections for new steep or flat roofs; can also be laid over very old shingles, felt, plastic and mastic roofs with positive satisfaction; has no smell in hot weather; sheds water rapidly.

There being now in use, in every variety of climate, over 10,000,000 feet of this class of roofs, on stores, dwellings, barns, mills, etc., also on foundries subjected to constant jar from machinery as well as continued heat from the furnaces, has given such practical and varied experience, that we are confident, where the instructions are followed, our RUBBER ROOFING will give entire satisfaction.

### FARMERS.

Roofs that leak are costly property. You cannot afford them. The damage to your housed crops, which results from one storm is often more than the cost of putting your barn roof in order. The yearly decay of agricultural machinery and implements, arising from leaky roofs on outhouses, would more than pay the cost of roofing every shed, crib, and storehouse on your farm. Your stock suffers from the drippings of your stable roof and the necessity of lying in wet stalls. These evils affect property but when your house roof leaks it is worse yet. Then comfort departs and you have a garret full of old pails and pans to catch the steady streams; there are wet ceilings and falling plaster; there are spoiled furniture, damp bedding and rheumatism; there is the anxious wife wearied with running up stairs to guard against new leaks; it is decay and ruin and property wasted. You cannot afford it. Our Slate Roofing Paint will end your difficulties and make your roofs water tight. For new roofs our Rubber Roofing covered with Slate Roofing Paint gives satisfaction to any one.

### Price-List of Materials.

One Gallon Slate Paint and Can	\$1.50	Ten pounds Roofing Cement for Bad	
Five " " " " Tub	5.50	Leaks about Chimneys, &c.	\$1.25
Ten " " " " Package	9.50	Rubber Roofing, 200 Square Feet Roll	5.00
Twenty " " " " "	16.50	Tin Roofing Caps, per lb.	.20
Forty " " " " "	30.00		

## References from all the States.

# Rhode Island Paint & Roofing Co.,

PROVIDENCE, R. I.

And PHILADELPHIA, PA.



# Prize Bred Essex Pigs!!

Essex are the BEST FARMER'S PIG.

Have been known to

## DRESS 90 PER CENT.

OF LIVE WEIGHT.

They are small bone and light offal, quick to mature, quiet and gentle. Jos. Harris, author of "Harris on the Pig," etc., says of my boar "Porter," that he is the "finest Essex pig he ever saw." A few pedigree pigs for disposal (farrowed Feb. 23 and March 1, 1880) at moderate prices, suitable for breeding or exhibition. Personal inspection of my stock is solicited. All correspondence promptly answered.

C. W. CANFIELD, Athens, Pa.

N. B. A limited number of Eggs for Hatching from my Prize Winning Brown Leghorns, and Black Red Bantams, at \$2.00 per 13, warranted to hatch.

## Alonzo Roberson,

BINGHAMTON, N. Y.

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## Doors, Sash, Blinds and Glass,

## Hot-Bed Sash,

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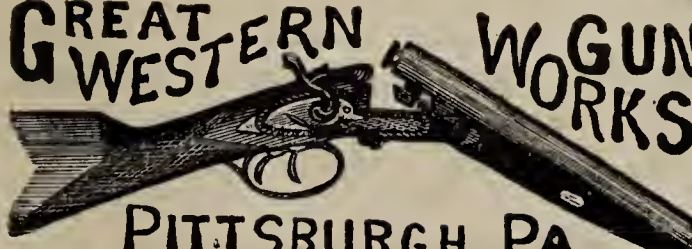
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Black Walnut Doors, Sash, Blinds, Etc.,

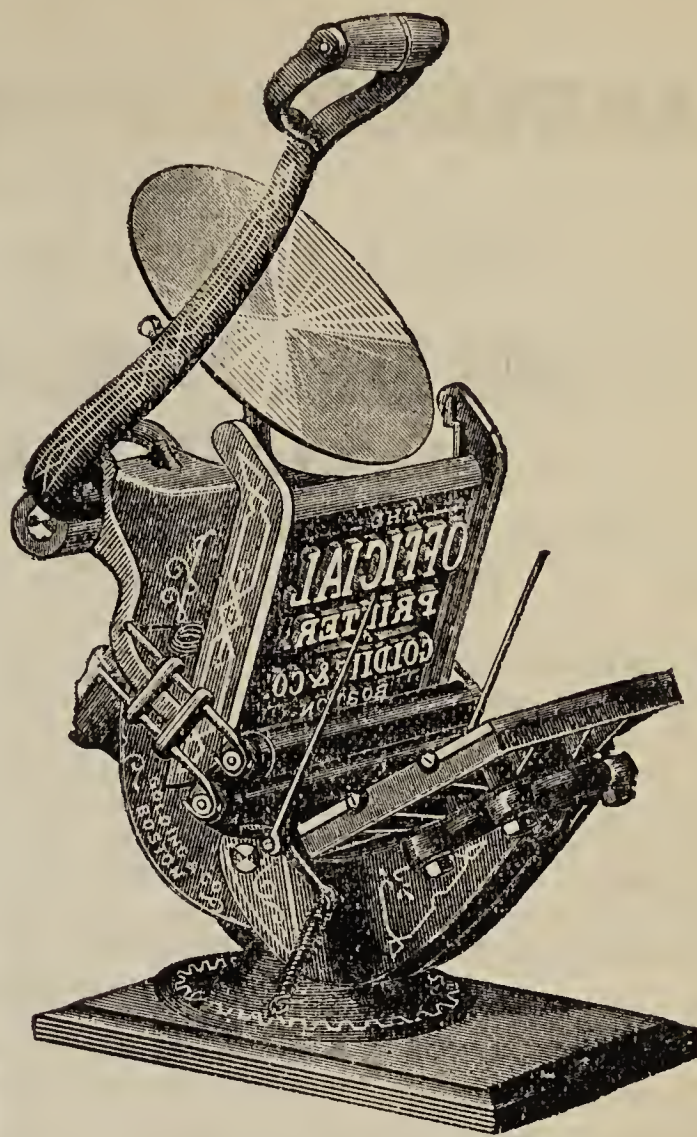
Made to Order.

## Rail Road Planing Mills,

No 7th of Erie Rail Road, Binghamton, N. Y.

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**PITTSBURGH, PA.**

Rifles, Revolvers, Shot Guns, Ammunition, Sporting and Fishing Tackle. Large Illustrated Catalogue free. GREAT WESTERN GUN WORKS, PITTSBURGH, PA.



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## **SICKLER'S PREMIUM PLOWS,**

Manufactured at the

Mill City Plow Works.

**HARD METAL, NOT BRITTLE, AND HARD TO BEAT.**

**BALANCED CENTRAL DRAFT.**

Excelling in Scouring Qualities, Lightness of Draft, Perfect-fitting Repairs.

**WOODEN BEAM, No. 3. IRON BEAM, No. 4.**

:0:

These Plows contain all the modern improvements, viz: Adamant Iron, and high curved Standard, warranted not to choke or clog; the Shares and Land-sides are renewable at small cost; the Mold-boards, by their convex form and long, gradual twist, give *Lightness of Draft*, thoroughly disintegrate and pulverize the soil, and will turn the soil *up hill* in a superior manner. Nos. 3 and 4 are identical in shape of mold-board, land-side and shares; therefore the parts are interchangeable. By carefully selecting and compounding the material we produce a metal (for the wearing parts) of uniform hardness,—in fact too hard to drill or file,—yet so fine in grain that it will polish like silver in any soil. In material used, general construction and finish and prices asked, we believe the

### **PREMIUM PLOW**

will compare favorably with any in the market, and will out-wear two ordinary plows.

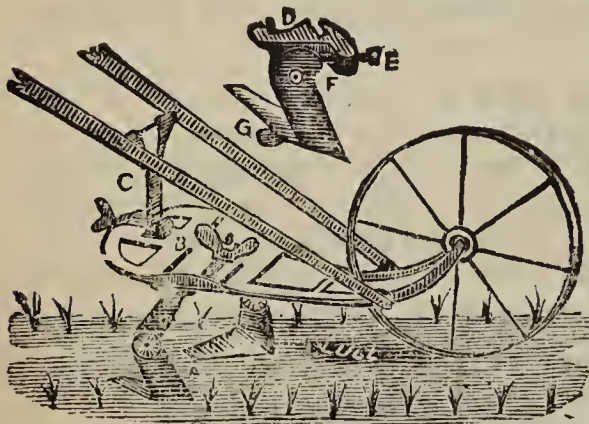
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And gather honey all the day, from every opening flower."

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MANUFACTURER OF AND DEALER IN

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SUCH AS

HIVES, SECTION-BOXES and FRAMES, COMB-FOUNDATION, &c.

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BROOD FRAMES, BROAD FRAMES,  $4\frac{1}{4}$  x  $4\frac{1}{4}$  SECTION BOXES,

AND

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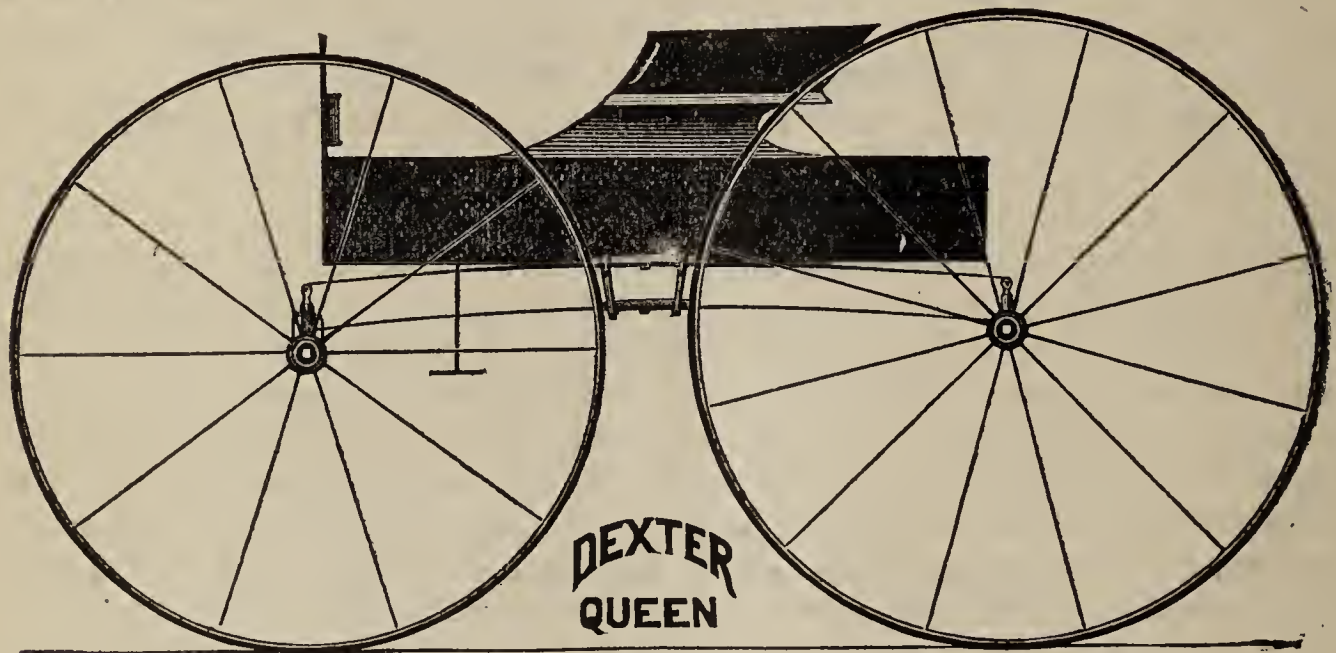
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This book, which embraces the results of years of practical experience on the topics of which it treats, has probably received higher and stronger endorsement than any work on Gardening heretofore published in this country. It is not a rehash of other writers' ideas, but claims to supply just what others have omitted; or, to dwell particularly full upon subjects on which they have failed to throw sufficient light. The author has endeavored, in its composition, to be as brief and concise as possible, knowing well that in this hurrying age, the wheat will be considered more valuable without the chaff than with it.

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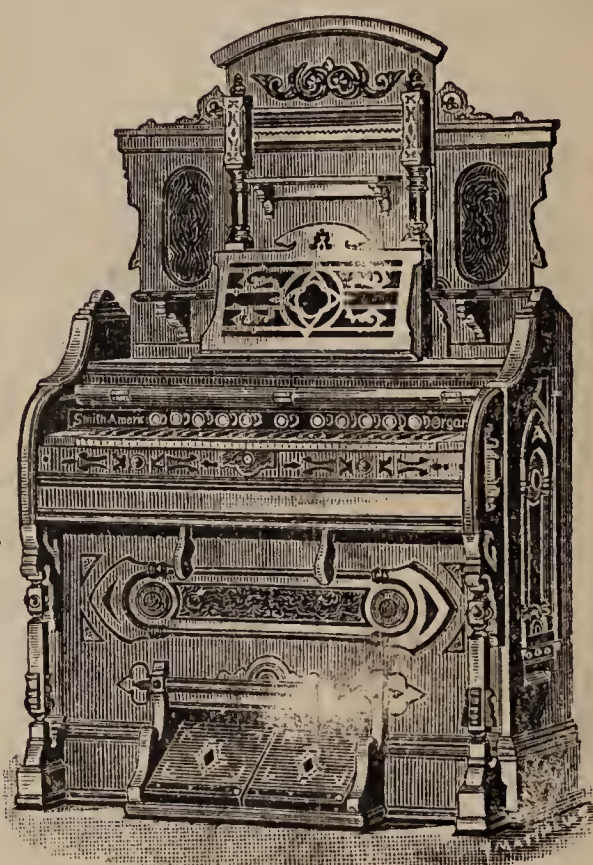
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Number Three.

Seed-Time and Harvest.

JULY, 1880.



[MIXED GLADIOLUS.]

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An Illustrated Quarterly Horticultural  
Magazine.

Isaac F. Tillinghast, Publisher.

LA PLUME, LACK'A CO., PA.



# TEN SPECIAL PRIZES!

## AMOUNTING TO One Hundred and Fifty Dollars.

*To be paid to those who will help to extend our circulation.*

We desire during the next two months to at least double the subscription list to Seed-Time and Harvest, and to that end we hereby make the following

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To the person who will send us in the most money, on subscriptions as above, between this date and the 25th. day of Sept. we will pay \$50. in cash.

To the person sending the second largest amount, we will give one of the Happy Thought Ranges, which we advertise elsewhere, by all means the finest cooking range in the world, worth \$30.

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To the person sending in the fourth largest amount, we will give a Websters Unabridged Dictionary, latest edition, worth \$12.

To the person sending the fifth largest amount we will give an order for seeds to be selected from our catalogue at any time within one year, anything the holder may desire to the value of Ten Dollars.

To the persons sending the 6th., 7th., 8th., 9th., and 10th largest amounts, we will give each a cash prize of \$5.

In addition to these liberal prizes, to the first one hundred persons who respond and enter into competition for the prizes, and send at least \$2. or more we will send the Home and Farm for one year free.

Accurate private account will be kept of all moneys received from each contestant, and on Sept. 25, 1880, the accounts will be examined and the awards made. The result will be published in the Oct. number of Seed-Time and Harvest.

Address, ISAAC F. TILLINGHAST, LA PLUME, LACK'A CO., PA.



# SEED-TIME AND HARVEST.

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*"Whatsoever a man soweth that shall he also reap."*

---

NO. 3,

JULY,

1880.

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Double French Ranunculus.



### Money in Cabbages.

There are at this season of the year, all through the country, pieces of good rich land which, from lack of time, have not yet been planted; or by reason of severe drought, or the devastation of worms and insects, or from some other cause have not at this time any crops growing upon them, and the owners are now interested in deciding what, if any, crops can still be grown which will prove remunerative. If the



EARLY JERSEY WAKEFIELD.

land is in good condition and a supply of fine manure can be procured, there are few, if any, crops which can still be put upon such lands which are capable of bringing as much ready money for the labor and expense of cultivating as a good crop of cabbages.

Having been interested in the growing of this vegetable for a number of years, I will offer a few hints to those who are in a position to be benefited thereby. The cabbage plant is a gross feeder and if the soil is not already rich must be heavily manured. However, good fresh corn or potato land which has vegetable matter enough in its composition to make it loose and lively will produce better results than heavy soil which has been several years under the plow. If there is not stable manure enough at command to give it a good coating of that, a dressing of superphosphate, bone dust or guano placed in the hill or around the plant and hoed in will answer every purpose.

Perhaps there is no vegetable, with which it is more important that a good stock or strain of seeds is secured to start with than the cabbage. There is much inferior seed in the market grown from poor, loose heads, or stumps on which no head has ever been, and such seed will almost invariably produce its like. "From nothing comes nothing," is an adage applicable here.

I have for a number of years used seeds grown from large selected heads, many of them finer than can be found in our markets and find that such will give satisfaction every time. I have grown upwards of fifty varieties in a single season, but find that for practical purposes there are three or four which combine the most valuable features of the whole. For summer use the *True Jersey Wakefield* and *Henderson's Summer* are unexcelled. For fall and winter the best strains of *Large Flat Dutch*, *Fottler's Drumhead* and *Winnigstadt*, are all that is desired. The *Flat Dutch* is the standard winter cabbage of this country, and to fully mature in this latitude should be set from June 15th, to July 10th. In New Jersey and further south it can be set correspondingly later. The *Winnigstadt* and



FOTTLER'S DRUMHEAD CABBAGE.

*Fottler's Drumhead* are a few weeks earlier and hence can be set correspondingly later.

As the cabbages head up best during the cool fall months, the late set plants make the finest and sweetest heads, providing they have time to mature. It is now too late to sow the seed for this seasons use, and those who have not a supply of plants must purchase them instead. The plants can



usually be procured in most sections at a small cost but purchasers have less chance of knowing what kind of stock they are planting unless they purchase of some one they can trust. Good plants are plenty in this vicinity at \$1 50 per thousand, and can probably be obtained cheaply elsewhere. They are usually set 2 feet by 3, and cultivated by horse one way, in this manner it requires about 7000 plants for an acre.

It is *very important* that plants which have *good roots* are set, as otherwise they are liable to perish from club-root, or other



LARGE FLAT DUTCH CABBAGE.

disease. In my *Manual of Vegetable Plants*, published three years ago, I first advanced the theory that the little white maggots which are frequently found in plant beds, and which eat the fibrous roots off, leaving only a long straight tap-root, are the larvæ of the *striped flea beetle*, and that to escape the maggots the flea must first be kept off. This theory received considerable criticism from other writers, but no one has as yet been able to disprove it, and from further experience I am more than ever convinced that it is correct, and should not now think of growing healthy plants without endeavoring to keep the *flea beetles* off from the start. Plants set during the latter part of June or in July are less frequently disturbed by these fleas and maggots than those set earlier and hence are as a rule not so frequently diseased.

The cabbage worm which but a few years ago made such havoc, has been so nearly exterminated by its parasitic enemies that it gives no occasion for alarm, in this locality at least. A few worms will be found upon the plants when hoeing, but as the season advances they grow scarcer

instead of more plentiful and do no particular damage.



EARLY WINNIGSTADT CABBAGE.

There is a principle in transplanting cabbage and other succulent plants which is unknown, or overlooked by many parties. They seem of the opinion that the sooner a plant is reset after being taken from the seed-bed the more sure it is to live. A moment's thought will show the fallacy of this idea, if it does not a little practice will.

The plant gets its supply of moisture and sustenance from the soil by means of numerous small mouths at the extremities of the fine rootlets. When the plant is removed from its seed-bed, more or less of these are of necessity broken and the evaporation is continually going on from its leaves, more or less rapidly according to the degree of heat and sunlight it is made to stand. If transplanted at once it follows that the plant must of necessity wilt badly, and if the weather is hot and soil dry it may never survive. If however, on being removed it has its roots "puddled" in muddy water and is then laid in a cool moist place, in from 12 to 48 hours numerous small white rootlets will be formed, the leaves will stiffen up and every energy of the plant is set at recovery. In other words the plant is convalescent, and if given half a chance for its life will commence growing with renewed vigor. For these reasons, plants which have been well packed and transported considerable distances by express will often wilt less on setting, and start to growing sooner than those which are reset at once when taken from the seed-bed.

JUNE 25, 1880.



### Urgent Horticultural Work.

There are some kinds of horticultural work, says the Rural Home, which, if not already done, should not be neglected for a single day. Most farmers are, to a certain extent, horticulturists. If they entirely neglect the kitchen garden, they most likely have an orchard; it is impossible to raise fair fruit in an orchard without making war upon the insect enemies of fruit. But few things are more aggravating or discouraging to orchardists, after they have succeeded in growing a large crop of apples, than to find that a large proportion of them are pierced with worm-holes. If they pack such fruit with the fairest, they do it with the consciousness that they are not sending to market first class products, such as every high-toned farmer delights in selling, and that they must be subjected to unfavorable criticism and reduction in prices. If they reject all but fair fruit, they find that their anticipations of a large crop are disappointed, and they are perplexed to dispose of their second and third class fruit at prices that will pay for handling. Thus, through the operations of insects, the apple crop that ought to be the most profitable and satisfactory crop the farmer grows, becomes the most troublesome if not unprofitable.

#### FIGHTING THE CODLING WORM.

We say fighting the codling *worm*, because as yet, the worm or larva form is the only one in which we have learned to fight them. The moth has thus far eluded our pursuit. She comes by night, like the thief, when insectivorous birds are asleep, and, quietly flitting from blossom to blossom, deposits a single egg in the embryo fruit, taught by instinct that, when under the influence of the later May, and early June sun, it hatches out into a maggot or larva, the tender young apple will afford just the nutriment it needs to grow into the full sized larva, and by the time that is accomplished the vitality of the young fruit will be so impaired that it will fall to the ground, enabling the worm to crawl out and find a secure hiding-

place in which to fulfil its destiny, change into the perfect insect, the moth.

In the farmers' warfare upon these enemies he should first provide for the destruction of the worms in the fallen apples. There are domestic animals which will devour this immature fruit, and learn to watch for it to fall. The best of these animals for the purpose is swine, the next best is sheep. With two or three pigs, or five to six sheep to every acre of orchard, but few of the worms that drop to the ground in the fruit would ever escape from it to multiply their species.

But some of the worms will, undoubtedly crawl out of the fruit before it drops from the trees; what is to be done with them, and such as may escape from the fruit after it has fallen? The instinct of the insect leads it to seek a hiding place near where its favorite food grows. After leaving the fruit it will crawl over the branches of the tree, and if it finds an old rough bark under which it may crawl and hide in darkness and security, it proceeds down the tree and if there are no hiding places there, it crawls down to the ground, and seeks its hiding place there. We can see the importance as a preliminary aid to trapping the worm, that no rough bark be left on the trunk or branches of our apple trees. A flourishing tree is less likely to be covered with rough, scaly bark than a slow-growing one, but if they become covered, the rough bark can be scraped off any time during the winter or spring when the farmer has most leisure, or if neglected then, it had better be done before putting on the codling traps, as you cannot expect the worms to go under the trap if they can find rough bark to hide under.

Having made all necessary preparations before the middle of June, put on the traps. What shall they be? Bear in mind that almost anything that will afford a hiding place and admit of being taken off and replaced a good many times, will answer the purpose. Paper is probably the cheapest material, in the first instance, but it will not last like cloth, and will be more affected by rains. It is, however, probably the most available for extensive use of any



thing attainable. Those who have old worn out discarded clothing, carpets, etc. can use them as far as they will go. A band three or four inches wide of one thickness will answer, but two or three thicknesses would be better. They will choose a dark place and one that appears sheltered from the rain. The bands should be long enough to surround the tree and lap an inch or two. They may be tied around with twine or the ends lapped and nailed with a single tack, or two tacks may be used, so that when the last one is drawn and you are searching for worms, one end of the band may remain tacked to the tree. The patent bands, a strip of Canton flannel attached to a broader strip of pasteboard, would be more durable than paper, but whether enough more to pay extra cost has not been fully demonstrated.

After these bands are once attached to the trees they must not be neglected. The object is not to furnish the worms convenient place in which to undergo their regular transformations and make their escape fully developed moths, to propagate another generation of larvæ to perforate the more advanced fruit, but rather to destroy them in the larval or pupa state. To do this we must examine the bands frequently, and destroy every worm we find under or about them. The exact period required for them to pass through the transforming stage probably depends somewhat upon the temperature, in the summer from two to three weeks. From eight to ten days is as long an interval as should be permitted to elapse between examinations during the summer season, while once a month may answer during the autumn.

Now if this careful and thorough warfare upon the codling worm be practiced, by all the orchardists of a neighborhood, the proportion of worm effected fruit will, unquestionably, be very much reduced leaving a very much larger proportion of such fruit as the farmer delights to offer to his fellow citizens for their consumption. The expense of going entirely through this process, not estimating the cost of swine or sheep, ought not to exceed ten cents a tree at the outside, and the principal item would be scraping the trees.

### Carbolic Acid.

Carbolic acid is destructive to the lower forms of insect life, while it is innocuous to the higher; hence, it forms one of the best means of protection against the ravages of noxious insects and malarial deposits. The crude acid in open vessels disinfects the diseased atmosphere, and diluted and incorporated in other forms, it destroys all insect life upon trees and plants. The best manner of applying it in the latter case, that we ever noticed, is that prescribed by T. T. Southard, of Rochester, N. Y., in the *Gardener's Monthly*. He says: "I obtain crude carbolic acid; I use it in this form because it is stronger and better for the purpose, and costs but very little" [about twenty-five cents a gallon I think.] I pour a quantity of this dark, crude acid into a quantity of good strong soft soap; stir well together and allow to stand a few hours. I then test the compound by mixing it with soft water, if too much acid has been added, oily particles of carbolic acid will be observed floating on the surface. This shows that more acid has been put in than the soap will incorporate or cut, and soap should be added to balance the excess of acid. No more definite rule can be given, as so much depends on the strength of the soap. Two or three tablespoonfuls of the acid to a quart of soap may be first tried. I prefer to make as strong with the acid as the soap will perfectly cut. A very little practice will enable any one to compound it correctly. The refined acid may be used when the crude is not at hand. When prepared as above, make a moderately strong suds, and apply with syringe or sponge. In using on very delicate plants, should any fear be felt for the plants, they can be rinsed off after a few minutes.

THE EDITOR of the *Rural New Yorker*, says: "At the present time, we should select among raspberries, Turners for early; Cuthbert for late; Belle de Fontenay for size and quality; Caroline [yellow] and New Rochelle [purple] to complete a handsome and excellent little assortment.



## How to Fight Insect Enemies.

BY PICKET.

Now is the time our insects are most active, and to secure the fruits of our toil we must be up and on the warpath. To be a successful insect-fighter a man must be patient, industrious and persevering. I have wrestled with insect enemies many years, and by keeping my eyes and ears open have become tolerably successful, yet no sooner do I learn how to effectually settle one species than another steps to the front and demands immediate attention. I will explain my method of dealing with a few insect pests which are now, or soon will be, especially active.

### THE APPLE-BORER.

This pest is now busily engaged in working ruin to thousands of apple and peach orchards, in all parts of the United States. A single specimen in a small two or three-year-old tree will ruin it in short order, or at least work an injury to it that will require years to repair. They enter the tree at or very near the surface of the ground, and work down or sidewise just under the bark. Three or four will totally ruin a good sized tree in one season.

To find the "varmint," carefully examine at, and an inch or so below the surface of the ground. If there is one at work, you will discover a small quantity of sawdust at the entrance to his workshop. Take a sharp-pointed knife and cut out a very narrow strip of bark, running up and down about half an inch; then with a fine wire you can reach and poke him out. Some advise punching around in his track until the end of your wire-probe looks juicy when you may consider him finished; but I always make sure by following him up with knife and probe until I actually see his mashed remains. Then fill the hole full with grafting wax, or bank the earth up around the tree until all scratches and cuts are well covered.

I have found it a good plan to bank each tree up with earth about six inches high, and when I go around looking for borers (which should be done at least three times

each season) I remove the upper part of the mound, dig out the enemy, and again cover up. Bateham's remedy, or rather preventive for borers, is invaluable to the orchardist, and if used not a dozen borers will be found in a hundred apple-trees. It is this: Into a tight barrel put two or three gallons of soft soap, and add as much hot water; then stir in half a pint of crude carbolic acid, and let it stand a couple of days to combine. Add six gallons of rain water, and it is ready for use. Stir it well and apply to the base of the tree with an old brush, working it well into all the crevices.

The latter part of June is the time to apply it in this latitude; later farther north. It will effectually prevent the moth from depositing its eggs wherever used.

If the crude acid cannot be obtained one third of the amount of pure will answer. This remedy will save thousands of apple and peach trees every year, and make it possible to grow a fine even orchard.

### THE CURCULIO.

The same remedy may be used with good effect on this troublesome insect. Fill a pail half-full of the mixture; then fill up with water, and with a broom whisk it through the trees just as the blossoms are falling, repeat every three or four days until the fruit is one-fourth grown. A fair crop of plums may be secured in this manner. The old manner of jarring the tree in the early morning, then picking up and destroying these pests is too slow and laborious for most people.

### THE CURRANT WORM.

When this rascal begins operation he must be summarily dealt with, or he will soon ruin the finest bushes in the garden.

Among the many mixtures I have tried there is one which I have never known to fail. Use it, and you will need no other. Dissolve a heaping tea-spoonful of hellebore in a pail of water, and sprinkle it on the bushes wherever you notice worms.

### THE ROSE SLUG.

This is a terrible pest. It will attack a rosebush, and multiply so rapidly as to totally destroy the foliage in a few hours.

They eat the surface of the leaf, leaving



the veins and skeleton untouched, giving the bush the appearance of being blasted or burned. The effect of their ravages can be seen at a considerable distance; not a moment of time should be lost. Make a pailful of strong soft soap suds, add a handful of salt, and thoroughly sprinkle the bushes. The bushes should be washed with clear water the next day, unless a shower of rain kindly does it for you. Fine sifted ashes or air-slacked lime dusted on the bushes after wetting them is very good. White hellebore prepared as for currant-worms is also as effective remedy.

#### THE TENT CATERPILLAR.

Another very destructive pest. Its web or tent can readily be seen from quite a distance, generally near the end of a thrifty branch. It is easily destroyed. The best instrument I ever used for that purpose was a "campaign lamp"—they will be plentiful and cheap this year. Fill it with kerosene oil, pull out the wick to make a good blaze, light it, and move it about under the web until every caterpillar is properly cooked, and the tent destroyed.

#### THE COLORADO POTATO BUG.

This insect has nearly disappeared from the West, thanks to the appetite of the little lady-bug. Where they are still so numerous as to injure the potato, I recommend the use of pure Paris green mixed in water. Take one table-spoonful to ten or twelve quarts of water, and sprinkle it on the plants with a watering-pot having a fine nose. Where there are but few bugs, early hand picking is the best and cheapest.

#### THE CABBAGE FLEA.

This little pest requires considerable attention. It will often eat off cabbage, turnip and radish plants as soon as they appear, and an inexperienced gardener would think the seed was bad and had never grown. Fine sifted ashes scattered over the plants when wet will check its operations, and will often save the crop. The plants are generally safe after they start the second leaf, and the best plan is to sow the seeds in rich soil and get them out of the way.

THE STRIPED MELON BUG  
is equal to the melon thief for destructive

manners. He is a tough customer to deal with. I have tried many highly recommended articles only to find them worthless. Wood ashes, or fine sifted coal ashes dusted over the plants when wet, have proved beneficial. Fresh cow-dung diluted with water and plentifully applied is good, and will aid considerably in preventing their ravages.

#### THE CUT-WORM

This insect will cause as much vexation and disappointment as any grub or beetle I know of. It always does the most injury where the plants are somewhat isolated, as in fields of corn or cabbage, and strawberry plantations, where a hill or plant destroyed leaves a large gap, which must be filled by replanting. I have seen whole fields of corn ruined by their ravages. They generally seem to be worse on spring than fall plowed land. Frequent harrowing and stirring the soil is very beneficial. The only way to effectually put an end to them is to smash them. I once saved a lot of valuable plants by placing over them, and pressing into the earth about two inches, small tin boxes, and fruit cans with both ends melted out. Balls of fresh clover scattered over the field will attract large numbers of them, and then they can be readily finished. In fighting insect enemies it will be well to remember the earlier you begin the battle the more certain you are to win. When you slay the early worm, or bug, you slay future thousands; hence it is advisable to slay early and often.

#### Cabbage Worm Parasite.

We notice that correspondents of the agricultural and horticultural press when referring to the *Pteromalus purpurum*, or Imported Cabbage worm parasite, generally state that the female fly deposits her eggs in the pupa or chrysalis. This however, is incorrect, as any one can discover by gathering some of the infested full-grown caterpillars and placing them in a close box to undergo their transformation. The flies, instead of laying their eggs upon the chrysalides, deposit them in the caterpil-



lar while this is feeding on the cabbages or other closely allied plants in the garden. The minute parasite grubs resulting, bore into and feed upon the fatty substance of the unfortunate caterpillar, but do not kill it, or prevent it from crawling away and successfully passing into its chrysalis state. But after this change the parasite continues to eat until the entire substance within the chrysalis skin is destroyed, the skin itself protecting them until the following Spring, when, having changed to flies, they break through the shell of their victim, and escape.—*Cor. Entomologist.*

### What Shall the Harvest Be?

The season of active farm labor is at hand. Instead of the daily care of flocks and herds, these will be turned out upon the hillside, and the farmer's attention will be directed to planting and sowing for a future harvest. Confidence in future effort has its foundation very much in the experience of the past, being strengthened by its successes and weakened by its failures; consequently, it is with many misgivings that the farmer, with each recurring Spring, goes forth to scatter his seed.

Remembering the smallness of this crop or the complete failure of some other in the past, he hesitates in his choice for the present year, inquiring with a good deal of solicitude: "What shall the harvest be?"

He knows that he cannot have a controlling influence over great agents of nature upon which he is so peculiarly dependent. The late frost of Spring or the early frost of Autumn may blast his hopes; then the plentiful showers may drown the tender plant, or the sunshine may wilt it and cause it to wither and die, or the drought may come just as it needs abundant moisture. The sudden gust of wind may break the brittle stalk, or the tempest may beat it to the ground; but, notwithstanding all this, the intelligent and thoughtful farmer may insure a remunerative harvest.

Not all depends upon a just amount of sunshine and air, rain and dew. The far-

mer is nature's assistant, and by studying nature and observing the habits of the plant throughout the different stages of its growth, he may help make it strong to withstand the wind and the tempest, by supplying such plant food as the soil lacks. He may rid the earth of superfluous moisture by proper drainage and give it power to retain moisture against the time of drought by deep and thorough cultivation, all of which shall warm up the soil, causing the roots of the plants to strike deep and thus be protected from the rays of the scorching sun.

The selection of seed is a matter to which every farmer should give particular attention. Forgetting or overlooking the well established fact that "like produces like," he sows light oats and pinched wheat, and indiscriminately takes the large and small, knotty and dead-eyed potatoes from his bin to plant, and asks and claims of Providence an abundant harvest. Thus through all his efforts many a farmer continually ignores some well established truth, and year after year cheats himself and hangs out to the gaze of the world the unmistakable sign of failure.

Too little attention is also given by many farmers, perhaps the majority, to the adaptability of crops to soil and soil to crops. How often as we look over the farms do we see the plant striving to make its growth upon soil entirely unfitted for its nature! Perchance a grass crop growing upon a warm hillside, while the corn is planted and expected to mature a perfect plant of its kind upon the cold wet level at its base.

Preparation of soil is another point of importance. The ground is too often just rooted instead of plowed, or only once plowed when it should receive a cross-plowing. Then it is just scratched over with the harrow where the outlay of a thorough pulverization would pay at least fourfold. Again the almost universal practice is to cultivate too many acres. A farmer may feel proud of his muscle as he measures his farm operations by the acre, but if he should put the same amount of labor upon one half as much ground he might derive a greater sat-



isfaction in tilling of his tons and his bushels and perhaps also establish a reputation for brains as well as muscle. A necessary result of cultivating too much land is spreading his manure over too much surface, and so by half tilling and half manuring he is compelled to be satisfied with a short and inferior harvest. Better care and culture of the plant through the season of its growth will go far to insure an ample and satisfactory harvest. The growing plant is left to "shift for itself" too much. If hoed at all it is apt to be but a sleight-of-hand performance. Weeds are left to multiply abundantly, which not only sap the growing crop but mature their seed to become a plague and a nuisance in all subsequent cultivation.

The desired harvest does not all depend upon a "smiling Providence," neither does it depend upon more muscle, but upon the use of more brains. It is not mere planting that is to fill the barn and granary, but more intelligent planting is what is needed. Good soil, good seed, good care, good cultivation, as well as a proper amount of rain and sunshine, are necessary to secure the desired harvest, and a farmer's failure is owing more to a want of the helps over which he has control than to those agencies over which he has no control.

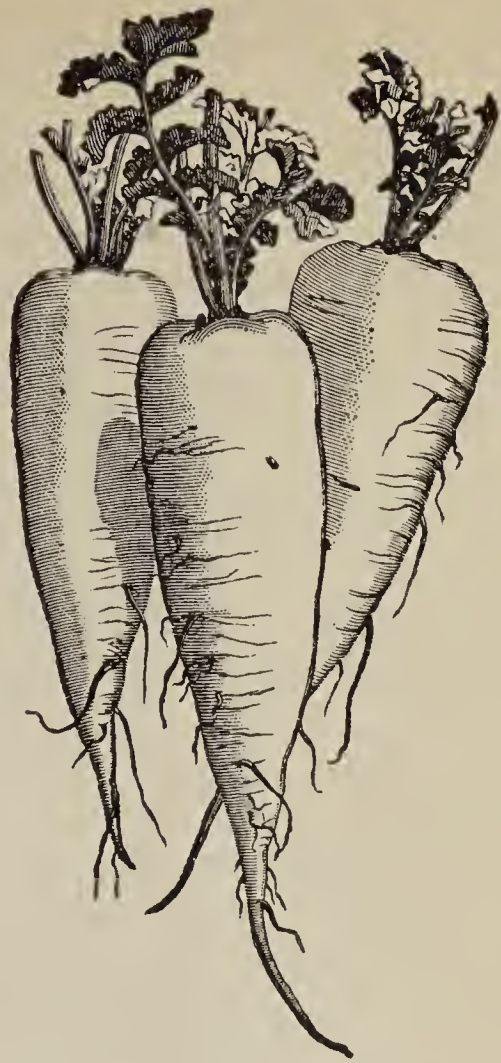
The coming harvest of the farmer shall be what he wills it to be by carefully planting what he desires, and giving to aid its growth, intelligent labor and seasonable harvesting.

W.

Norridgewock, Me.



PURPLE TOP STRAPLEAF TURNIP.



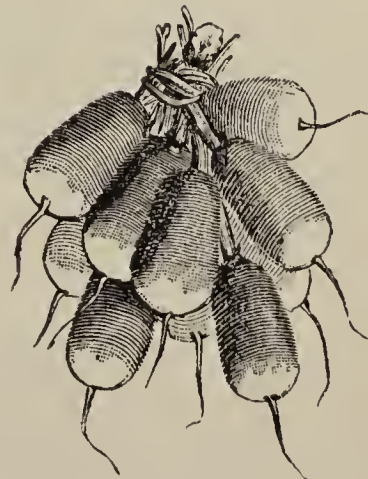
CALIFORNIA WHITE WINTER RADISH.

### Seeds For Late Sowing.

Every garden has at this time of year, unoccupied plots of good ground which must either be sown with some fall crop, or left to grow up with weeds.

Among the varieties yet seasonable for this climate we may mention Spinach, Early Turnips and winter Radishes. The Purple Topped Strapleaf Turnips, shown in the accompanying engraving, is the most popular and one of the best and quickest growing varieties. They are sown broadcast at the rate of three fourths of a pound per acre.

The engraving above, represent the California Mammoth White Winter Radish, and the one below, the China Rose Winter Radish, these should be sown in August, dug in the fall and packed in sand.



CHINA ROSE WINTER RADISH.



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JULY, 1880.

### EXAMINE OUR PRIZES.

On the inside cover of this issue, will be found some special offers to which we earnestly invite the attention of every reader. Please consider that it is to your interest, as well as ours, that we secure a large list of subscribers. The larger our subscription list becomes, the more time and money we can devote to the improvement of our magazine. We have begun its publication with the firm belief that we may make it a success, and earnestly ask the cooperation of every reader that our labors may be crowned with success. Yet we are aware that some other incentive is necessary in order to procure the assistance of all our readers, and to this end these prizes are offered. It is not probable that we shall receive many or large clubs. Indeed we have known of several similar schemes in which nearly every successful competitor received nearly, or quite as much, in return as the amount sent in by him on subscriptions.

Any person who will devote one month's time to canvassing, will without doubt receive better wages for his time than he can command elsewhere. The Premium Articles are all first class, and well worth the value claimed for them. The Happy Thought Range, is we believe, the best Kitchen Range manufactured. We have had one in use in our family for two years

and truly say, we never saw its equal in utility or appearance.

The Watch is one of the finest made by the American Watch Co., of Waltham, Mass. What more need be said of it? The Dictionary is a household necessity. The *Home and Farm*, newspaper has by its merits attained a circulation of *over One Hundred Thousand* copies in less than five years of publication. It is acknowledged to be one of the best and cheapest papers published in the Union. It contains 48 large columns, and is published twice each month. By sending us only \$2. you are certain to get this for a year. Sample copies, of each publication, will be furnished free to all who wish them for raising clubs.

Some will ask, will the seeds be good? One of the main objects in making these offers is to get the chance to place packages of our seeds in new hands for trial, with the hope of thus securing permanent customers by pleasing them. Can we then afford to send anything but the very best seeds to these subscribers?

These premiums are open to all competitors, to close positively on Sept. 25th, 1880.

At the close of another plant season we wish to make a few general remarks to our friends, who have kindly favored us with their orders. It has been our intention to serve all in a square, honest manner, and to this purpose we have as far as possible given our personal attention to the filling of all orders. Our friends will see however, that it is utterly impossible for us to pull and pack every plant with our own hands. At certain times we have orders for, perhaps, fifty thousand plants on hand, which are to be got off at the earliest possible moment to a score of different customers. The pulling and counting into bunches of one hundred plants, has in many instances of necessity been left to boys, whom we found sometimes rather careless. It may be, therefore, that occasionally an order has fallen short in number or quality of what it should have been. In all such cases if complaint is made we will be found ready and willing to make ample amends.





### Pansies.

BY MR. RENNY.

Of all the flowers I grow—and I try to find a corner for all I can get—pansies are my especial favorites, and I think I do not greatly err when I say they are admired by everybody. Somehow or other, they look so social and companionable, with their pretty upturned almost human, faces looking at you in such a knowing way, sometimes playing hide-and-seek among the leaves, and again, nodding and blinking to the passers by, that it seems as if they appreciated our admiration. Did you ever notice what pets pansies are? Go to almost any country where they grow, and you will find some endearing name given to them, such as “Heartsease,” “Call me to you,” “Johnny come to me” and many others. In our own land, let the children run in the garden, and more than likely the pansies will first attract their attention. Ask them the name, the almost certain reply will be: “Johnny-jump-ups,” nor are the children alone in giving this pet name for I have found many grown people who know no other name for pansies.

Pansies are admirably adapted for planting in cemeteries to decorate the graves of our dear ones laid away to their last sleep. I recollect there is a cemetery in the vicinity of my birth-place in Scotland, where almost every grave is adorned with flowers, and of these pansies are in the majority. The name is from the French, *pansees*, thought, alluding to “Keep in mind,” or “Forget me not.” What flower then can we more appropriately plant on the graves

of those whose memory we cherish? Listen:—

“Come to my grave, and you will see  
A pansy, and the bloom shall be  
A message penned to you from me,  
That I have not forgot you.”

How true the poet’s lines would be if we all clothed the resting places of our beloved dead with the flowers such as many of them delighted to tend while on earth.

Pansies are worthy of cultivation not only on account of their brilliant flowers, but the durability of the bloom. With me they flower from early spring until late in the fall, and with the protection of a cold frame I have picked flowers from them all winter. The largest flowers are always borne upon the youngest plants, hence seed should be sown every year. Get it into the ground as soon as possible, in a shady place, or better still sow the seed in boxes in the house; I put some in a month ago and the seedlings are of good size now. Sow the seeds



LARGE STAINED FRENCH PANSY.

in light finely sifted soil, dusting just enough over the seeds to cover them; then gently press with a smooth board to bring the seeds and soil together, and cause more



rapid germination. Seeds saved during the summer should be sown in the fall. Sometimes it happens that the seed pods burst of their own accord, and from the seed thus scattered many plants spring up which may be lifted in the fall and set out in beds to bloom the following spring. The seed, sown in spring should be transplanted from the seed box or bed to where they are to bloom. It is better not to let them flower until July or August.

Pansies prefer shade, but do not put them under a tree, for they will grow spindling. Neither plant them in raised beds, where the intense heat of the summer sun will speedily absorb the moisture. Choose rather a bed cut in the lawn, or still better the shady side of a house, remembering always that shade and moisture are essential to the successful cultivation of pansies.

If you desire all the flowers you can get, remove some of them every day—there will always be some to take their places. If you wish seeds, remove all but the largest and best formed blooms. Like produces like, and large flowers can not be grown from poor seeds, but there is no reason why people can not save the seeds themselves, and raise just as good flowers as if they bought seeds at an extravagant price from seedsmen.



AGROSTEMMA CÆLI ROSA.

### Women in the Garden.

Much in these days is said about the sphere of woman. Of the vexed question we have nothing new to say. The culture of the soil, the body and the soul are our



AQUILEGIA CHRYSANTHA.

themes. Rich soils, healthy bodies, pure cultivated souls, these are what we are aiming at. And to this end we recommend that every country woman have a garden that she keep and dress with her own hands or that she supervise and manage. The culture of strawberries, blackberries, gooseberries, currants and garden vegetables is as delightful and profitable as anything in which a woman can engage. She may sprinkle her garden well with flowers. All the better for that. A snowball in this corner, a rose-bush in that, a dahlia bed here and a moss border there, will not be out of place. Only let the substantial and useful constitute the chief part.



A touch of the ornate, like a ribbon on a good bonnet, is not in the least objectionable. Let all the girls study botany. It is healthful, pleasing and useful. The principles of horticulture are the principles of botany put into practice. Farmers study agriculture, why should not their wives and daughters study horticulture? If any employment is feminine, it would seem that this is. If any is healthy, this must be. If any is pleasurable, none can be more so than this. A rich bed of strawberries, a bush of blackberries or currants, a border of flowers produced by one's own hand, what can well afford a more rational satisfaction? We say to all our country sisters, have a garden, if only a small one, and do your best with it. Plant it with what pleases you best, with a good variety, and see what you can do with it. What woman cannot raise beets, tomatoes, melons, onions, lettuce, and furnish her own table with them? What woman cannot plant a raspberry, currant, or gooseberry bush, and tend it well? Come, good woman, study your health, your usefulness and happiness, and your childrens also.



DOUBLE PORTULACCA.



GERMAN ROCKET LARKSPUR.

### The Flower Garden.

To have beautiful flowers and a profusion of them, plant your plants and seeds in rich soil, as a rule. There are only a few plants that do better in poor soil than in that is well enriched, prominent among which are the different varieties of Amaranthus. The soil should be frequently stirred during the growing season, and especially soon after every shower. Finely breaking the surface with a hoe or small rake, after it has been beaten down by the rain, will enable it to retain moisture much longer than if left to become hard, as it will do if thus worked. Without proper culture and attention weeds will be certain to put in an appearance in flowerbeds, vases, hanging baskets, grass plats etc. Their presence will never be tolerated by any cultivator who has regard for neat and tasteful appearances. Provide strings, stakes or trellises to climbers and top-heavy plants and to guide the young tendrils of climbers that are stretching out for support, which they perhaps cannot reach. Dahlias should be provided with strong stakes early in the season, if their breaking down would be avoided. The season of out door flowers can be extended almost every year by protecting the plants during the first frosty nights. Usually after first frosts the weather becomes warm and pleasant.



### Preserving Flowers and Fruit.

Fruit and flowers may be preserved from decay and fading by immersing them in a solution of gum Arabic and water two or three times, waiting a sufficient time between each immersion to allow the gum to dry. This process covers the surfaces of the fruit with a thin coating of the gum, which is entirely impervious to the air, and thus prevents the decay of the fruit or the withering of the flower. Roses thus preserved have all the beauty of freshly plucked ones, though they have been separated from the parent stem for many months.

To insure success in experiments of this kind, it should be borne in mind that the whole surface must be completely covered; for if the air only gets entrance at a pin-hole the labor will all be lost. In preserving specimens of fruit particular care should be taken to cover the stem, end and all, with the gum. A good way is to wind a thread of silk about the stem, and then sink it slowly in the solution, which should not be so strong as to leave a particle of the gum undissolved. The gum is so perfectly transparent that you can with difficulty detect its presence, except by the touch. Here we have another simple method of fixing the fleeting beauty of nature.

Cut flowers soon droop and fade. Here are few of the ways in which they may be preserved: Add to the water a few drops of camphor or ammonia, a little salt, a lump of charcoal; immersing the stems in hot water when a bouquet is first made, and then as they commence to wilt repeating it, first cutting off the ends. In making bouquets be careful not to crowd too many flowers into one vase. They will last longer to say nothing of their improved appearance, if they stand losely. Never use cold water. Let it be luke-warm, and soft if possible. Sprinkling flowers in vases at night will help to keep them fresh, and better still lay them out on the grass where they will receive the dew, being careful to take them in early in the morning, in summer, before the rays of the sun have wilted them.

Flat bouquets, made in plates or glass platters, can be built up with a foundation of sand. Flowers will last much longer if their stems are thrust into wet sand than they will in water. The sand can be covered with moss, and flowers can be arranged in any fanciful shape desired, and they will not be likely to become disturbed, for the sand holds them in place firmly.

Instead of moss, leaves can be used to cover the surface, and make a groundwork for the design, or bits of geranium branches, which often put out roots in the damp sand, and most of them grow right along as if nothing had happened to them. Very pretty designs may be made of tin about an inch in depth, in diamonds, crosses, and letters, and then filled with sand and flowers.

In working button hole bouquets, or arranging flowers, such as roses, camelias etc., for the hair, cut the stems off at right angles, and immediately apply hot wax to the end of the stalk, then wrap in tin foil. The prettiest button hole bouquets are the most simple; a geranium leaf or two as a background with either a tuberose, a rose bud, two or three pansies, or some small flower; a sprig of mignonette is a pretty addition.

#### TO RESTORE FADED FLOWERS.

Place the flowers in a small empty teacup or scent-bottle. Half fill a saucer, in the centre of which place the cup or bottle containing the flowers, over which invert a tumbler, the top of which rests in the water, covering the flowers with the cup and excluding the air. The effect is surprising; in a short time the faded flowers will revive, the color return in the petals, which quickly expand, and the scent return as powerfully as when the flowers are first plucked. Care should be taken that the flowers do not come in contact with the sides or bottom of the inverted tumbler.

Reader, will you not procure some subscribers for us from among your friends? Do not overlook the chance offered on the second page of cover to obtain "good pay for doing good." A very small club may take a good prize. Why not try?



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 ☞ Small profits and fair dealing defy competition.  
 ☞ Old seeds do not satisfy old patrons or make new ones.

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☞ In comparing our prices with those of other growers please do not overlook the fact that our quotations include the prepayment of postage. The amount we charge will bring our seeds to your door.

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☞ We do not care to boast of handling more tons of commercial seeds than any other firm in the country. We much prefer to sell a limited amount of pure fresh seeds to a few hundred good customers on whom we can depend after they have learned that they can depend upon us, than to flood the country with stock that we know little or nothing about. We think it better to sell seeds which are worth all you are asked to pay for them and live on a fair profit, than to sell a cheap purchased article at a large margin and then have to expend the profits in newspaper advertising in order to drum up new customers for the future.

AGENTS WANTED.—For the purpose of introducing our seeds as extensively as possible we have made a magnificent offer, which you will see upon another page. We now want an agent in every town to show our magazine and solicit orders under this offer. If you will get four of your friends to subscribe and pay 50 cents each for the magazine and seeds, we will send you a fifth copy with seeds free for your trouble. Specimens free upon application.

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## Seed-Time and Harvest

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FOR MANY YEARS we have taken subscriptions for the principal Journals of the United States, and especially those devoted to Agriculture and Horticulture. By taking large numbers of subscriptions we are enabled to get publishers' lowest rates, and when we are enabled to do so we give our patrons the benefit of the deduction. In such cases our prices are frequently lower than any one could possibly secure except through a large club like ours. On some papers we can give no discount as the publishers have no clubbing terms, but we put them on our list because we think they are well worth all they cost. We give below a list of standard publications for which we receive subscriptions and the price of each. We club SEED-TIME AND HARVEST with any of them for 15 Cents additional to the price in the second column.

Please see if there is anything in this List that you need, and, if so, we should be glad to receive your order.

☞ THE FIRST COLUMN gives the Publishers' price, and the *Second Column* our price. ☞

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..... rosem. rose, a e.....	
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..... autumnalis, crimson, a.....	
Ageratum Mexicanum, blue, a.....	
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa p.....	.05
..... alba, white, p.....	
..... atro-sanguinea, crimson, p.....	
Alyssum maritimum, sweet, white, a.....	
Amaranthus caudatus, crimson, a.....	
..... melancholicus ruber, d'k crimson.....	
..... salicifolius, scarlet and purple, a.....	.10
Anemobium alatum, (Immortelle,) white, e.....	.05
Anemone coronariam, p.....	.15
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a. 10 colors mixed,.....	
Aquilegia hortensis, double, m. p.....	.10
..... chrysantha, new golden-spurred.....	.15
..... finest varieties mixed.....	.10
Aster, pœony-flowered, extra fine, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau, m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05
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Calandriana grandiflora elegans, rosy pink a.....	
Calceolaria scabiosæ-folia, new, p.....	.10
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..... early dwarf m. a. ....	10
Celosia cristata, —cockscomb— 6 colors mixed	05
..... variegata new, m a	10
..... crimson, gold and fire-feathered, m a.	10
Centaurea Babylonica, new p. ....	10
..... cyanus minor m p. ....	05
Centranthus macrosiphon m a	10
Chrysanthemum carinatum, m a.	10
..... double white new	10
..... Indicum grandiflorum, m p ..	10
Clarkia pulchella m a	15
..... elegans, new double, pure white	15
Cobæa scandens, purple c p	10
Coix lachrymæ, Job's Tears, .....	05
Colutea floribunda	10
Collinsia multicolor marmorata, a m	10
Convolvulus minor, m a	10
..... major, Morning-glory, m a	10
Coreopsis tinctoria m a.	10
Cucurbita, Ornamental gourds, m a	10
Datura fatuosa, double purple a	10
..... white a	10
..... Wrightii, new double, a	10
Delphinium (Larkspur,) dwarf double, m a.	10
..... tall German rocket	10
..... dwarf branching double,	10
Dianthus dentosus hybridus, m a b	10
..... sinensis double m a b	10
..... barbatus, [Sweet William,] p m	05
Digitalis gloxinoides, spotted, white & crimson	10
Eschscholtzia Californica, yellow a	10
..... tenuifolia, new a	10
Eutoca Wrangeliana, low blue annual	15
Geranium, zonale and inquinans mixed, a p	05
Gilia tricolor, blue, white and lilac m a	05
Globe Amaranth 6 colors m e a	15
Godetia, Lady Albemarle, new large crimson a	05
..... roseo albo, Tom Thumb a	05
Helichrysum lucidum m a e	10
..... dwarf m a e	10
..... monstruosum double m a e	10
Helianthus globosus fistulosus a	10
..... Californicus, double a,	10
Helipterum Sanfordii, yellow everlasting,	10
Hollyhock Chinese double a	10
Honeysuckle, Hedysarum coronarium m a	05
Ipomœa Quamoclit, Cypress vine m a	10
Jacobœa, Senecio elegans double m a	10
..... dwarf double m a	10
Lantana hybrid m	10
Linaria bipartita flora albo a	10
..... purpurea, snapdragon a	10
Linum grandiflorum roseum a	10
Lobelia Erinus grandiflora superba	10
Lupins, Dunnettii superbus, new a	10
..... tricolor elegans new a	10
..... polyphyllus mixed p	10
Lychnis chalcedonica, white and scarlet m p	10
..... Haageana hybrida new p	10

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Marigold African double m a	10
..... French	10
..... m a	10
Mignonette, Reseda odorata, sweet-scented a	10
..... large-flowering a	10
Mesembrianthemum, Ice plant, a	10
Mimulus cupreus hybridus extra a	05
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..... discordalis, black—white margin a	10
..... elegans —very brilliant— a	05
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Oenothera Drummondii, Evening Primrose a	10
..... macrocarpa	10
..... acaulis	10
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..... perennial	05
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..... double extra m a	1
Primula Japonica, new Japanese primrose a b	0
..... elatior, cowslip m a b	0
Rodanthe Manglesii, everlasting m a	10
..... maculata	10
..... m a	10
Ricinus sanguineus, castor oil bean a	10
..... major, largest variety a	10
Salpiglossis hybrid blue and scarlet m a	10
Salvia coccinea a p	10
Scabious major, mourning bride m a	10
..... minor, dwarf double m a	10
Silene Armeria, Lobel's catchfly m a	10
..... pendula double rose a	10
Schizanthus papilionaceous m a	05
Stocks Brompton m b	10
..... German ten weeks m a	10
..... Parisian	10
..... m a	05
Tagetes lucida m a	05
..... signata pumilla a	05
Tropæolum Lobbianum, spit-fire a	10
Tropæolum majus, Tall Nasturtium. a	10



Verbena hybrid, extra choice mixed a	10
Virginian stock m a	05
Wallflower double m p	10
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Xeranthemum annuum Imperial double	10
..... mixed varieties a e	05
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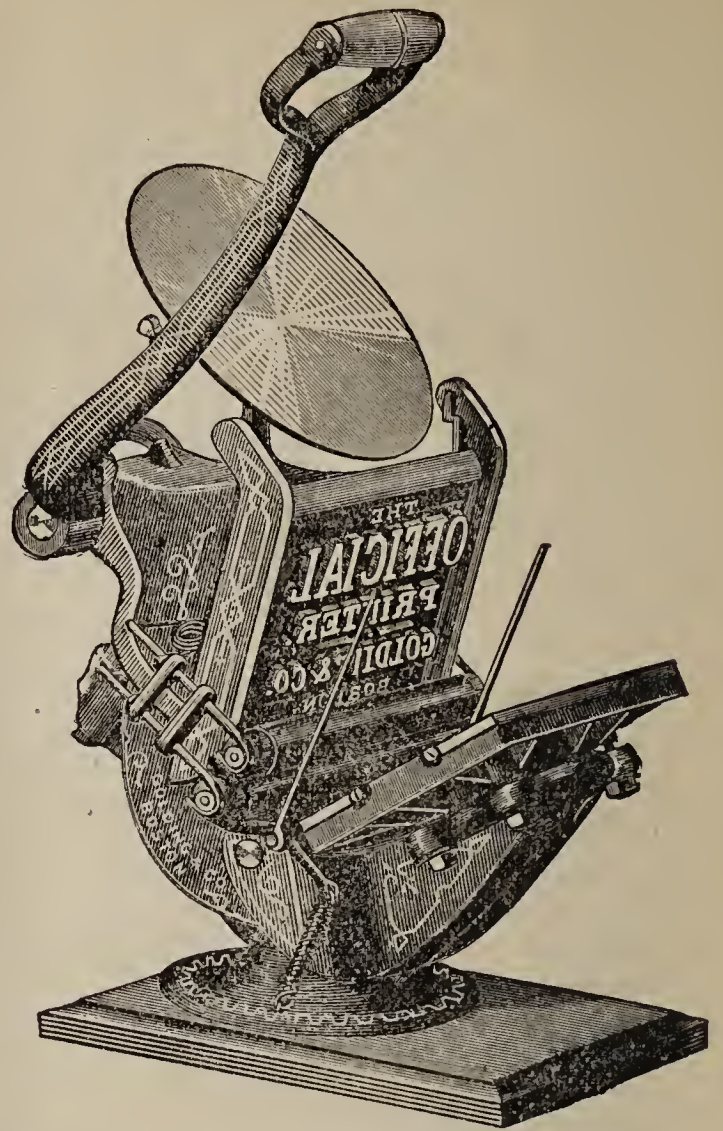
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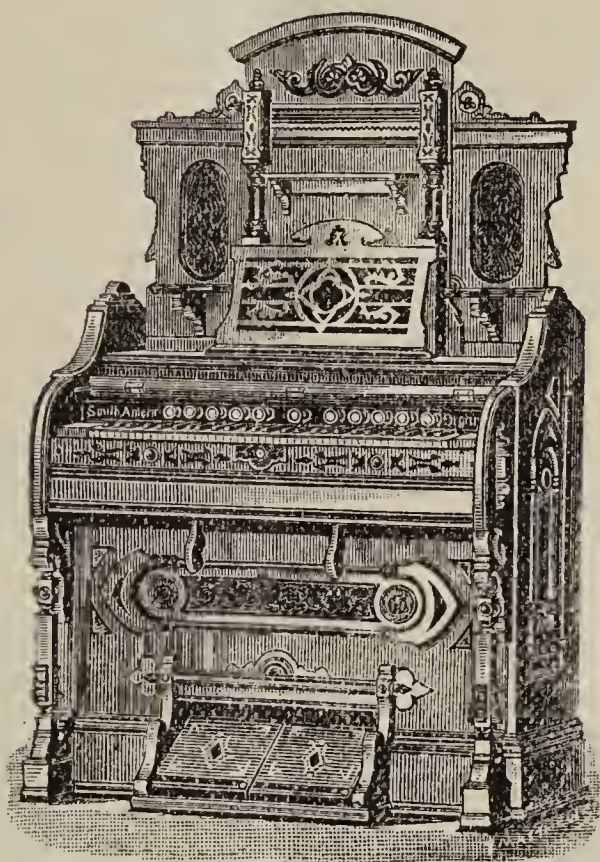
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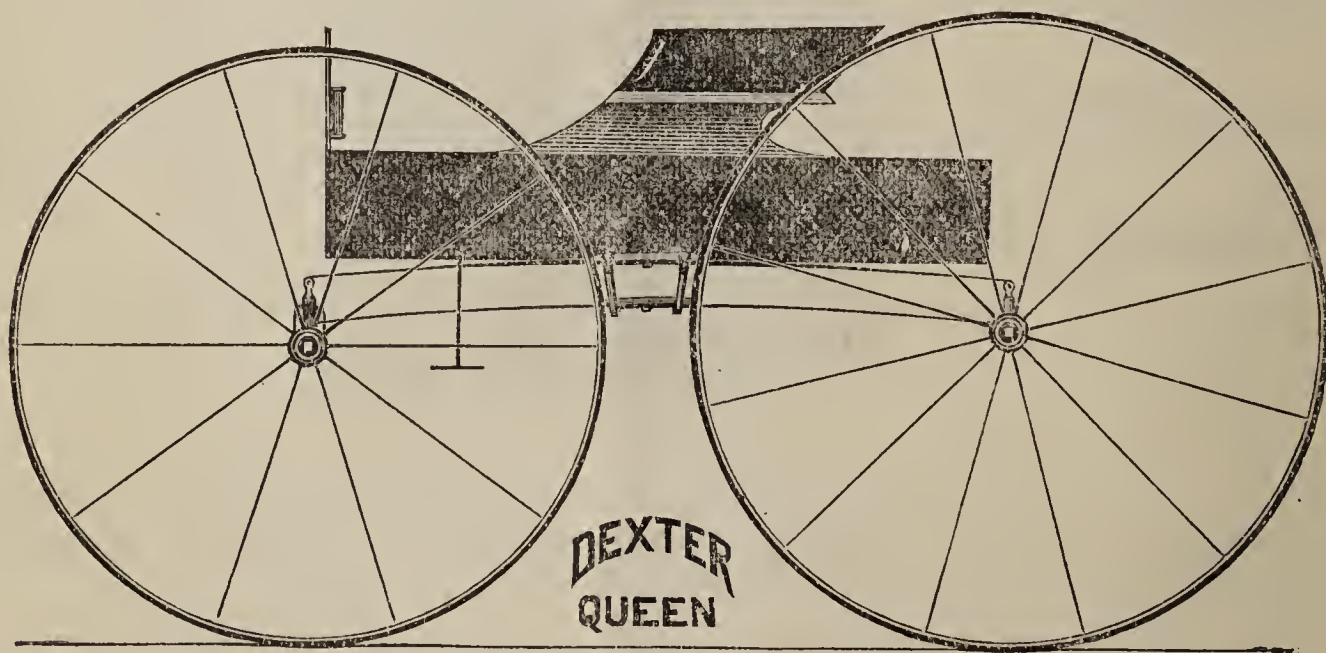
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FOR 1880 and 1881.

The Home and Farm is an Agricultural & Family paper published semi-monthly by B. F. Avery & Sons, at Louisville, Ky. It is an eight paged paper, six columns to the page, giving forty eight columns of matter in each issue, two issues of which are equal to an eighty paged monthly magazine, and not inferior in quality of matter to the best magazines published. The subscription price for Home and Farm is

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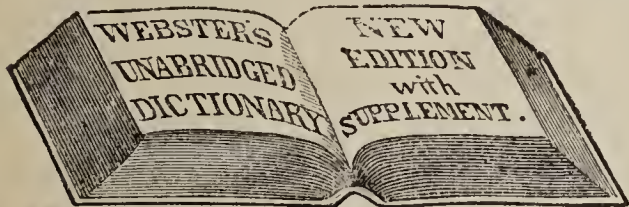
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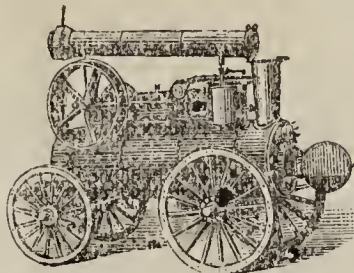
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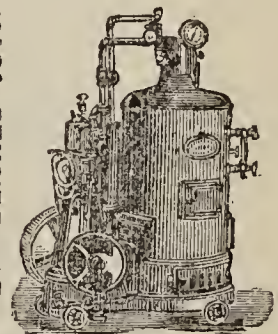
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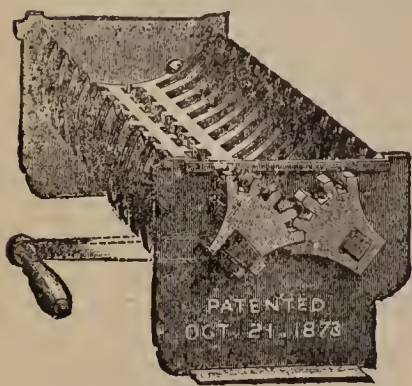


Fig. 1.

Fig. 1 Represents the Duplex Grate in proper position to start the fire, and the same in which it is generally used.



Fig. 2.

Fig. 2 represents the same reversed, allowing the ashes to escape and retaining the fire.

ever yet brought before the public.

The advantages claimed for this improvement are as follows:

FIRST. By one movement of the handle the ashes and clinkers are effectually removed, and the fire is left upon a clean grate. SECOND. As the operation is performed when the range is closed no ashes or dust can escape into the room, which, as is well known, is not true of the so-called anti-clinker grates now in use. THIRD. The entire clinker is removed regardless of size, while with other grates the large clinkers must be broken before they can be removed. FOURTH. No skill or experience upon the part of the operator is required.





Number Four.

Seed-Time and Harvest.

OCTOBER, 1880.



(FOTTLER'S EARLY DRUMHEAD CABBAGE.)

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An Illustrated Quarterly Horticultural  
Magazine.

Isaac F. Tillinghast, Editor & Publisher.

LA PLUME, LACK'A CO., PA.



# SPECIAL OFFERS AND PRIZES.

We propose during the next six months to add at least Ten Thousand New Names to our subscription list and to that end we hereby make the following

## GRAND OFFERS TO THE PEOPLE.

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**2d.** For 50 cents we will send SEED-TIME AND HARVEST one year, and with it a certificate entitling the holder to receive post paid by mail, to any part of the United States, his own selection of Flower or Vegetable Seeds in packets to the amount of fifty cents.

### AGENTS COMMISSION.

*Agents and canvassers will be allowed a commission of forty per cent. on the two above offers, providing at least five subscriptions are sent in at a time. On the following offers no commission will be allowed:*

**3d.** For 75 cents we will send SEED-TIME AND HARVEST, and 50 cent certificate as in above numbers, and in addition One Years Subscription to either *Farm and Fireside*, or *Home and Farm*, (the subscribers choice,) both being large semi-monthly, agricultural papers, well worth one dollar per year alone. See page 14 for particulars.

**4th.** For \$1.00 we will send SEED-TIME AND HARVEST, and certificate for 50 cents worth of seeds as above, and both of the above papers for one year, or, either of the papers (your choice) and a copy of our Manual of Vegetable Plants. See third page of cover.

NOTE. The offers of *Home and Farm* will close on Christmas Day, 1880, and all subscriptions for it must be in our hands by that day—All the other offers remain open until June 1st 1880.

## TEN SPECIAL PRIZES ! !

In addition to the above, and all other offers and prizes in this or any other list published by us, as a special inducement for agents to introduce our Magazine and Seeds, we offer the following Special Prizes to the ten persons who send us the most money between this date and June 1st 1881, the person sending the most money to receive the first and so on.

1 Gift of One Grand Parlor Organ,	\$160.00.
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1 Gift of Shakespear's Works Complete,	2.00.

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# SEED-TIME AND HARVEST.

*"Whatsoever a man soweth that shall he also reap."*

NO. 4.

OCTOBER,

1880.

## What shall the Harvest be ?



WHAT is the yield of the harvest-field?  
Grain or stubble? sad or sweet?—  
When the sickle goes through the  
ripening rows  
Of corn and wheat?

Fed alike by the sun and shower,  
The dew of evening and morning hour,  
By fervent kisses of fevered noon,  
By soft embraces of pallid moon,  
As light and darkness extend their hands  
Over the smiling meadow lands,  
At touch of the sickle the crowned  
heads fall

Whether the yield be great or small.

Whether the sun and the rain distilled  
Their sweets, and their bounteous  
work fulfilled;

And whether the skies do ill or well,  
Our barns will tell.

What is the yield of the harvest-field?  
Joy or sorrow? bliss or bane?—  
When up in the sky the moon sails by  
With starry train?

The August moon, that has gathered in  
Summer splendor to fill its bin,  
Now shining down on the meadows  
bare

After the reapers have gathered there,  
Seems to question with eager gaze  
The faithful record of Summer days.

What need hath the earth to make reply  
When the moon looks out of the tear-  
washed sky?

For the seams and scars on its rugged breast  
Speak plainly and truly, "I've done  
my best;

But oh! not here is written the yield  
Of harvest-field!"

"What is the yield of the harvest-field?  
Grain or stubble?" ever thus,  
In the moonlight clear do we voices hear  
Questioning us.

What did we sow in the early spring,  
With life at its sweetest blossoming,  
That deep in the soil has taken root  
To bring forth flowers or perfect fruit ?

Alas! if we only have thought to sow  
The weeds that grow as the rushes grow,  
What will the angle above us write  
In the solemn calm of an Autumn night,  
When the harvest moon in its silver rays  
Folds the glory of summer days?

If love we have sown, no need to weep;  
Love we shall reap.



### Watering Poultry.

There are many devices for watering vessels for poultry. Some are more elegant than useful, some poorly adapted, and some are convenient and to the purpose. At home we always use shallow tin or zinc pans. They are light, easily cleaned, and easily emptied and filled.

In visiting a farmers poultry yard the other day we saw a very good, cheap, convenient home-made device which pleased us entirely for summer use. But it would require some modification for winter. It was simply a large keg or half barrel which had originally been a whiskey or beer keg, but is now put to a better use. It was set one end on a big stone. A spigot was introduced in the side near the bottom, and so guaged as to drop the water slowly into a shallow pan from which birds of all sizes could drink. The trunk or keg was filled every morning by a funnel through a hole in the upper end, and supplied water for the day which was always clean and wholesome, though not very cold. He was much pleased with his success in rearing chickens, ducks and turkeys this season, and had not lost any from disease. He attributed his success in great part to this home made watering vessel, and the use of Poultry Powder in the water once a week. He will read this, and will be surprised, no doubt, to see so simple a device noticed in these columns. But simple as it is it is excellent and others may do worse than to improvise a similar utensil. FARM JOURNAL.

### How to Grow Potatoes.

The Potato is a native of America. It was, however, never fully appreciated by our people until the invasion of the country by the Irish, who, by their example, taught us to like it. Its importance as a staple field crop was never fully appreciated by American farmers until the invasion of the potato bug, who taught us, (by example,) to be industrious and enterprising in the culture of the succulent bulb. But enough on that score.

We promised last month to tell how to grow a big crop of potatoes. To aid us, we have sought and obtained information from farmers who annually do that very thing—grow a big crop of potatoes. Where else should we go? To some college professor, with head full of theories, who could by analyzing soil, potato and fertilizers tell exactly how to do it? We guess not?

#### WHAT THOMAS SHALLCROSS SAYS.

“In this neighborhood—twelve miles north of Philadelphia—potatoes generally follow corn, though a clover sod offers a better chance for a crop. To obtain the best results, after the fodder has been removed in the fall, plow the ground about 6 in. deep and leave for the mellowing influence of the frost. After the ground dries in the spring harrow nicely, then spread about 16 tons of good stable manure. (The most potatoes always grow where the most manure is spread). Plant from the middle of April to the middle of May, in every other furrow, about 3 inches deep, using good seed, obtained, if possible, from a more Northern locality, making the rows come about 2 feet apart. About as many potatoes will grow to the row as where they are planted in every third furrow. Keep the ground well harrowed until the potatoes are all up. The scratch harrow kills millions of small weeds and lessens the labor of after cultivation. Work well with the cultivators until the vines are ready to fall, then hill up and wait for results.” We asked

JOHN M. JONES,

a young farmer of Montgomery Co., Pa., to explain how he came to grow 400 bushels last year possible for seed. In September, 1874 I found the yield of the Vermont seed to be 73 lbs. and the yield from my potatoes 74 lbs. The result of this experiment, taken in connection with what I have observed in the growth of crops, leads me to the belief that it is more important to select good seed, from year to year, and always take good care of it, than to change seed, or obtain it from other localities.”

#### CUTTING THE SEED.

William G. Burke, of Delaware Co., Pa., says: “In a late paper I notice the following sentences, ‘do not neglect to cut potatoes ten days or two weeks before planting.’ After a fair trial of cutting potatoes two or three days before planting and planting them immediately after cutting, I have adopted the latter course as preferable. In this way they come up much more certainly and I think more speedily. When I have ashes I sprinkle them with that, otherwise with plaster of Paris, so as to coat the cut surface.”

R. Warrington, says:—“The crown eyes of the potato—those farthest from the stem—are the only ones which yield vigorous plants; the produce of the other eyes is feeble and unremunerative. If, therefore, potatoes are cut for seed, they should not (as is usual) be cut in their length, by which the crown is divided and eyes of all kinds introduced into the seed, but they should be cut across, the half containing the crown eyes



planted, and the other half consumed as food. The very best results are obtained when large potatoes are taken, all eyes excepting those of the crown cut out, and the whole remaining potato planted."

We print Mr. Warrington's views, not that any reader should blindly follow the suggestions given but that each one may test the correctness of the conclusions arrived at. This he can do readily and without expense. FARM JOURNAL.

### Small Fruit Culture.

BY CHARLES A. GREEN.

We are friends of the large fruits. We have nursed them in their infancy, planted them in their robust childhood, gathered the productions of their mature years, and smoothed the pillow of their old age. We cheerfully credit them with all their noble qualities, but cannot forget that they are carrying pretty high heads, and need to have their rough hides combed down a little at times. Therefore, I shall present, briefly, the qualifications of the more modest members of the interesting family, known as the Small Fruits, and demand that hence forth, in their season, they play first violin in the great orchard symphonies.

The Small Fruit possess the following advantages over the large fruits: They bear much sooner after planting; the plants are more easily propagated, and therefore less expensive: as a rule, they may be relied upon to bear every season, while the large fruits have their off years, they are not so seriously affected by insects and disease, they occupy less land, and submit gracefully to being tucked beneath the larger, like the trundle bed of our childhood.

It is to be regretted that we do not have local exhibitions of the small fruits. The people are not well informed of the better varieties, are incredulous of reports brought to their notice, and can only be convinced that strawberries are grown nearly as large as peaches, and that raspberries, grapes, currants and gooseberries have been improved in value to an equal extent, by viewing them on exhibition. Our annual

fairs are of no value except in the display of grapes. Why not have a strawberry show, and other exhibitions of small fruits? Were it possible that a collection of small fruits could be placed on exhibiton at once in competition with the large fruits, I am confident that the former would not be overshadowed, in points of beauty and excellence.

#### PROFITS FOR MARKETS.

"Is the growing of small fruits profitable?" we are asked. The production of an inferior quality of fruit, of any kind is not profitable. Therefore, if the inquirer has no tastes that incline him to small fruit culture, and no ambition that will urge him to the production of fine specimens, we would not reply in the affirmative. But if he loves to urge the development of his plants, if he loves to see them thrifty and luxuriant, if he finds beauty in the leaves, flowers, fruits and clinging vines, if he hates weeds, and has fair soil and market we reply yes, go ahead, they will repay you nobly; they are the most generous of things earthly.' But start slowly if you have had little experience, or you get wrecked on unprofitable varieties. If your capital is all in brains and sinews, remember that ten dollars worth of plants may be made to stock a small fruit farm, if you have patience to wait for the increase. Do not feel compelled to hug the cities, for those markets are often the most uncertain. The country and the villages are the most reliable markets.

It is possible for 300 bushels of strawberries to be grown on one acre. 200 bushels is not an extraordinary yield yet 100 bushels per acre might be over the average, for there is much poor culture. 100 bushels of raspberries is a satisfactory yield, but often above the average. Currants, gooseberries and grapes yield generously with good culture and congenial soil, and are highly profitable, if the best varieties are selected. The blackberry is perhaps, the most profitable of all, in sections of country where it does not winter-kill.

Of course, the grower of small fruits may be overtaken by drouth, hard times

(Continued on page 8.)



## SEED-TIME AND HARVEST.

average clover sod leaves in the soil in round numbers about 900 pounds of dry substance, 7,000 pounds of organic matter, and nearly 2,000 pounds of ash, while the phosphoric acid amounts to 75 pounds, the potash to 82 pounds and the nitrogen to nearly 200 pounds.

From these and other experiments, as well as the practical experience of farmers in this country as well as in Europe, the value of clover as a fertilizing crop is seen. Joseph Harris—so widely known as an authority in agriculture—calls clover the “grand renovating crop of America,” and for the climate and soil of nearly all parts of this country, he is right. Taking into account the amount of plant nutrition that clover leaves in the soil, when the crop is plowed under, either in the shape of green manure or when the soil is turned down full of fibrous roots—which not only add greatly to its fertility in the way of manurial matter, but have brought up salts from the subsoils as well as penetrated in all directions and thereby vastly improve the mechanical condition of the land—we can readily discern why many experienced farmers consider clover indispensable in any well regulated system of husbandry.

But the advantages are still more. It is already in the field without cost of hauling or spreading, and its distribution is even, uniform and perfect. Nor are its effects ephemeral for, successive crops for several years attest its quickening power. For many years it has been relied upon as the main stay of numbers of intelligent men who have made a specialty of wheat. Employed with plaster and sheep it has been possible for many Michigan farmers to keep up the fertility of their lands and annually obtain average crops, (and even better,) of wheat. One of these—a man whose method long since gave the reputation of an intelligent and successful farmer—says he considers clover of as much value as a fertilizer as a crop of corn is for fattening stock and making manure.

The complex action of clover, plaster and droppings of sheep in restoring fertility to worn wheat lands or giving to those naturally deficient, consists in supplying soluble

lime and sulphuric acid—two constituents consumed in large quantities by clover. These two elements are contained in plaster (sulphate of lime,) which is sown with clover, and also upon the young plants while they are damp with dew or after a shower. The result generally is a luxuriant growth if a good “catch” has been secured. The plants send down their long tap roots into the subsoil, collect such inorganic matter as they find there and bring it to the surface. The flocks eat the green plants and scatter the constituents of the clover over the ground, as well as the ammonia formed in the urine, and when the clover is plowed up, all that it has received from the subsoil and the air is again rendered more or less available for plant food by decay, and in this way surface soil is rendered fertile.

It is said that this is not real manuring: that nothing has been supplied except a little lime and sulphuric acid that the soil or the air did not contain before, and that the effect in time must be to impoverish the soil. Such may be the case in some kinds of soil, but we have the testimony of Hon. Geo. Geddes, of New York—one of the most noted farmers in the United States,—that this does not follow as a rule. He has a field which for more than three quarters of a century has been manured with nothing except clover grown upon it and plowed in, upon which, has been grown wheat, corn, oats, barley and grass; for fifty years plaster has been used upon the clover, and the land shows no diminution of fertility. His experience accords with that of many farmers of lesser note, going to prove that a judicious use of clover will restore lost fertility to land and enable it to produce good crops steadily for a long period.

There are other ameliorating crops, as buckwheat and field peas, which are plowed under as green manures, and in some instances at the start they may be preferable to clover, as in cases of sandy land where it may be difficult to get a catch of clover; but the latter is the farmer's great reliance in restoring and retaining the fertility of his land.



### Insect Enemies.

It is a remarkable fact in the wise economy of nature that *destructive insects do not increase largely in number from year to year*. A sudden increase in one year is likely to be followed the next by an almost total disappearance of the same variety. Do not allow yourself, therefore, to think you cannot grow Roses because the slugs or the bugs are so bad this year—a little perseverance to help your plants survive the present attack is probably all that is needed next year you may not be troubled with them at all.

In guarding against the attacks of insects it is well to remember that half the battle depends on keeping the plants healthy, and in strong growing condition. Good rich soil and thorough cultivation are the best insect preventives.

Frequent stirring of the ground with hoe and rake, besides benefiting the plants, is injurious and annoying to all insects whose eggs or young are deposited in the earth, and who want so much as to be LET ALONE. As it is much easier to destroy a few insects when they first appear, than the countless thousands which they soon produce it is important to watch closely the first attack, and apply the needful remedies at once.

**THE APHIS OR GREEN FLY** attacks the young growth, and will first be found at the extremities of the branches. It feeds on the juices of the plant, and will soon starve and sicken the bush. Remedy, *Tobacco Smoke*. This is easily applied by covering the plant with a box or barrel, or even a quilt and putting under a pan of burning Tobacco; the smoke should remain on an hour or more. If the insects are very bad it may take frequent applications but it is a sure cure. A strong tea of tobacco will answer the same purpose, if more convenient to apply. The infected part may be dipped in, or the whole plant may be sprinkled as often as may be necessary. For house plants when Tobacco is not desirable, a hot water bath is almost equally effective. The water should be as hot as the hand can bear, and the whole top of the plant dipped in two or three

times in succession; but should not remain more than two seconds at a time.

#### THE ROSE SLUG

is a much worse enemy than the Aphis, but it too, can easily be kept in check by proper attention. The body of the Slug is green and soft, almost transparent, like jelly, they eat the surface of the leaves, leaving the veins and skeletons untouched, and they multiply so rapidly that they destroy all the foliage of the largest number of bushes in a few hours. One plan is to dust the plant thickly with powdered or air-slacked lime, plaster of Paris, road dust or ashes, and repeat vigorously as often as may be required. Or, the plants may be thoroughly sprinkled and washed with a strong suds, made of soap and salt. A recent writer says the following remedy is thoroughly effective, cheap, and quickly applied: Dissolve one tablespoonful of powdered White Hellebore in two gallons of boiling water; when cool apply to the Roses with a whisk broom, bending the rows of the plants over, and dashing on the water in a fine spray, so as to reach the under side of the leaves as well as the upper. The Hellebore can be had of any druggist, and one application is usually sufficient for a season.

#### THE ROSE BUG

is well known to cultivators as one of their most desperate enemies. The only cure is hand picking. This is not a serious matter, but can easily be done if taken in time; the bugs being large, may be quickly brushed or picked into a vessel containing water, after which they should be burned. The best time to gather them is in the morning. As in other matters, constant vigilance is the price of success.

#### MILDEW.

When plants suddenly become covered with a whitish looking mould the disease is known as mildew. Unless a very severe attack it will not probably kill them, only retard their growth. It is believed to be induced by atmospheric causes, or sudden changes of temperature or moisture. For outdoor plants, a thorough stirring of the soil, with a view to encourage strong growth, is probably the best thing that can be done.



### Seed-Time and Harvest.

The good gardener has almost a continuous seed-time and a continuous harvest. What with sowing under glass and in open ground, with propagating by cuttings and layers, and division of roots, and by budding and grafting, his seed-time lasts the year round, so, also, is there no month when he may not cull a bouquet or furnish the table with fruit, or vegetable or a salad plant. At this time he thinks of sowing seeds of some beautiful perennials that, in the following season, will amply repay for the forethought and attention; such as Antirrhinums and Pansies, Chinese Pinks, Sweet Williams, Lychnis, Aquilegias, Hollyhocks, Sweet Rockets, and others. The seeds of all these may be sown this month in a cold-frame, or in some warm sheltered spot in the open ground; they will soon germinate and make healthy little plants that may be carried through the winter with a slight protection. In spring they will be ready to transplant, and will start early and soon become fine flowering stock.

When the severe weather comes, late in fall some leaves can be placed in between the rows of plants, and for those in frames this will be sufficient protection. Those in the open ground can be treated in the same way, and, in addition, have some branches laid over the plants, and leaves covered over them. The branches will hold the leaves up from the plants and prevent their getting smothered.

In the same way Lettuce and Cabbage seed may be sown and wintered over ready for use at the earliest opportunity in spring.

In the open garden, after having well prepared the ground by deep tillage and a generous coat of manure and thorough pulverizing, Spinach seed may be sown in rows about fifteen inches apart. Plenty of seed should be sown, so as to be sure of full rows. When the young plants are well up and growing, they can be thinned out, so that they will stand about eight inches apart; the ground should be frequently hoed and kept clean. When the coldest weather is at hand brush should be placed over the plants, and then these covered with leaves

for protection in the same manner already advised for Cabbage and Lettuce.

It is much better to prepare and plant beds of Asparagus in the fall than in the spring, as the growth is much stronger the next season. And this remark also applies to most hardy plants, such as ornamental vines and shrubs, Roses, Clematis, Virginia Creeper, Trumpetvine, and others; also, Raspberry, Strawberry and Blackberry plants, and Grape-vines, Currant and Gooseberry bushes. Any of these, after planting, can be protected by a covering of leaves so effectually that the frost cannot throw them out of the ground or in any way injure them.

By all means, do all the work in the fall that can be as well done, and so relieve as much as possible the burden of spring-time, which is always too great. *Vick's Magazine.*

### How to Eucher the Borers.

Ten years or more ago I tried use of papered bands and gas tar, in various forms, on my peach trees, and when carefully applied it was effective in excluding borers, but for the past seven or eight years I have practiced a much more excellent way, and I know other fruit growers who have done the same, and would not think of going back to the old methods. It is simply using carbolic acid, which is the essence or spirit of gas tar, and is easily made to combine with water by adding soap, while the tar itself will not combine, and is far less safe and cleanly in its application. My rule for preventing borers is to get a pint of crude carbolic acid, costing twenty five cents and is sufficient for twenty gallons of the wash. Take a tight barrel and put in four or five gallons of soft soap, with as much hot water to thin it, then stir in the pint of carbolic acid, and let it stand over night, or longer, to combine. Now add twelve gallons of rain water and stir well; then apply to the base of the tree with a short broom or old paint brush, taking pains to wet inside of all crevices. This will prevent both peach and apple borers. It should be applied the latter part of June or early in July,



in this climate, when the moth and beetles usually appear. The odor is so pungent and lasting that no egg will be deposited where it has been applied, and the effect will continue till after the insects have done flying. If the crude acid cannot be obtained, one third of the pure will answer, but it is more expensive.—*Fruit Recorder*.

James W. Robison, Esq., of Fremont, Ill., an ex-president of the Illinois State Horticultural Society, gives the following mode of dealing with this destructive insect: The eggs are deposited in the bark of the tree, the beetle puncturing or splitting the bark of tree upward or downward and a little sidewise, the puncture looking very much as if made with an ordinary pocket-knife. The eggs are usually injected into this puncture so deep as to be out of sight; but not always. On young and thin barked trees the eggs will be pushed in next to the wood, but in older and thicker barked trees they will only be through the hard outer bark and the inner soft bark. As soon as the eggs begin to hatch which is in a few days after being deposited its enlargement causes the puncture to open, and thereby it is much easier detected. The young borer hatches out in the inner side of the egg and eats out a circular piece the size of a half-dime; and then starts off, boring upward at first, but sometimes sidewise or downward. At this stage of development it is easy to detect the young depredator by a few drops of discolored juice of the tree extending from the puncture and sticking on the bark. The larvæ usually bore down below the ground surface in the Winter, and up again in Summer, living in the larvæ state in the tree nearly two years, then boring out in the form of the beetle, ready to repeat their round again. The remedy I have successfully used is to keep the ground around the trunk of the trees clean and mellow, so that there will be no cracks or openings there for beetles to get in to lay their egg in the tree, and so that the puncture where the eggs are laid or young beetles hatching may be easily seen, and eggs or insects destroyed, which can be done while in the

eggs by merely pressing firmly on the puncture with a knife blade (the cracking of the eggs can be heard distinctly,) and if hatched, by cutting away the dead bark over the cavity first eaten out, and killing the young worm. The borers do not go into the wood much the first year, and can be easily followed with the knife; but if not taken out soon after hatching, they seriously injure, if not entirely kill the tree, especially when they run around just under the bark, as they sometimes do. Or, when several borers are in a small tree, they so injure it that it breaks over with the wind. If the ground is well cleared and patted down smooth around the trees about the last of June, the destroying of the eggs and young borers will be much more certain. The trees should be examined twice or perhaps three times a year, if the borers are very numerous, in order that the first hatched may be killed before they so serious injury to the trees. August, September and October are the months in which to destroy them. They seem to infest certain parts of an orchard from year to year, while others are comparatively exempt. Low grounds have been more infested with me than higher parts of the orchard. A man can usually examine and kill all eggs and borers in five hundred or more trees per day, if the ground has been properly prepared, and no work in any orchard has been so absolutely necessary.

#### Clover as a Fertilizer.

A correspondent desires information about the fertilizing value of clover. We presume he refers to what it leaves in the soil when the crop has been cut or fed off as pasture. But plowed under green, there is scarcely anything in the way of vegetation that surpasses it as green manure.

The fertilizing effect of a clover sod, according to Dr. Lawes, is equal to 180 pounds of nitrate of soda to an acre. This estimate, however, is not high enough, if experiments made in Germany by Dr. Weishe and Dr. Weruncy, are taken as approximately correct. These show that an

(continued on page 4)



the currant worm, and other drawbacks. It won't be all sunshine and fair sailing by any means. Yet, I consider it safe to say that from eight to ten acres, favorably located, judiciously planted to the best varieties of all the hardy species, and properly treated will yield more average net profit than 100 acres at ordinary farming.

#### SMALL FRUITS FOR COUNTRY HOMES.

Complaints are made that our farmers isolate their families from the many enjoyments of city or village life, and neglect to provide those luxuries of the garden that lighten the heart and invigorate the stomach; a choice collection of which delicacies one might well travel some distance to partake, at the home of a friend, as some writer has intimated. Such complaints are well founded, and farmers are to be censured, if, as some imagine, our farmers are independent, and burdened with leisure hours. But this happy condition being simply a dream of the poet, or a burlesque on struggles for existence, let us not berate the patient husbandman: for no class is so badgered, harrassed and driven, nor so poorly paid for their toil. The care of farm fences, buildings and live stock, long journeys to market over horrible roads—relentless storms, the fickle seasons, and countless never ending drudgeries, assail the farmer at every turn; and lo and behold! it is discovered his fruit garden, his flowers, his lawns do not compare favorably with those of his city brothers. The homes of many of our farmers are indeed barren of the choice varieties and species of small fruits; but the farmer's heart beats kindly towards those dependent on his efforts, and as he becomes more familiar with the better varieties, and appreciates their value for home use, and learns how easily they may be grown, he will produce them. In fact, our well-to-do farmers are, of late, introducing these comforts quite liberally.

Small fruits are a great attraction to any place, but no country home is complete without them in abundance, from June to January. They are not only toothsome and healthful, but are possessed of great beauty. Downing says that "fine fruit

is the most perfect union of the beautiful that the earth knows." As much pleasure may be obtained by wandering through a garden of strawberries, raspberries, blackberries, currants, gooseberries and grapes, under good culture and treatment when in bloom or fruit, as from many flower gardens. We are apt to overlook the beauty of these useful plants, and bestow our admiration indiscriminately on those that have their being for beauty alone. If we desire we may train most of the small fruits in forms of beauty, greatly enhanced when bearing their luscious burdens. For instance, the Black Cap raspberry may be made to cover a trellis or may be trained low, and as round-headed as a hay-cock, or transformed into an uniform and trusty hedgerow. Should we first see the currant in fruit, when strolling for wild flowers, we should feel that we had discovered berries of great beauty. Like blades of grass, apple blossoms and sunsets, currants are too familiar to receive general admiration.

Few vines are more ornamental for home grounds than the grapes: and when the "bloom-dusted" clusters swell and ripen, in the autumn sun, we may rest with content beneath their shadows. Hundreds of dollars expended in architectural display, may not add so much attraction to a country home as the old grape-vine, trailing from a rustic arbor about the gables. How well we remember the vines that twined their tendrils about the homes of our childhood. Familiar scenes and former acquaintances may have been forgotten, but the old vines cling to our memory in all their beauty and fruitfulness. Let us plant the small fruits about our homes. They will promote health and contentment, and do much to brighten life's toilsome journey.

#### DIRECTIONS FOR SMALL FRUIT CULTURE.

For garden culture plant Strawberries in beds four feet wide, with paths between. In such beds set three rows of plants, fifteen inches apart each way. These beds can be kept clean, and the fruit gathered without setting the feet on the beds. Enrich and pulverize the soil at least one foot

Small Fruit Cult.  
 page 3.



deep before planting. This is President Barry's plan. For field culture plant in April or May, in rows  $3\frac{1}{2}$  feet apart, one foot apart in rows, cultivating and hoeing thoroughly the first season. For home use plant in September or October, covering each plant with a quart of compost or cut straw, to keep from heaving; also before fruit ripens a light mulch of leaves or straw should be given to keep the fruit clean. In field culture, if the soil is clayey, keep matted rows as narrow as six inches; if sandy, permit the runner to form matted rows 8 inches wide, but do not seek to have plants stand very closely in matted rows. The second or bearing year but little care is bestowed on such plantations, except in case the ground gets hard, to loosen it between the rows often. After the first season's bearing the matted rows are made very narrow with a plow, the ground leveled and new plants permitted to take root between the rows, after which the strip of old plants should be dug or plowed over, and the cultivator kept running therein.

Plant on soil suited to corn or wheat. Avoid newly ploughed sod land on account of white grub.

Do not grow Strawberries only; the patrons who purchase them will want the other small fruits also, and the boxes and crates will do for all.

Plant Black Raspberries in rows 6 feet apart, and 3 feet apart in rows. Cut off the top of Raspberry canes when 2 feet high, and when side branches appear, shorten them also. This is the hedge system—no stakes required. Layer Black Cap tips in August and September for new plants.

Unleached wood ashes and plaster mixed, is a good dressing for small fruits. Apply in fall or winter.

## Flower Bulbs for Fall Planting.

Having frequent applications from our patrons to furnish them with flowering bulbs, as well as seeds, we have been for the last two years collecting an assortment, and preparing to furnish them of such quality as to give satisfaction, and at prices which all who care for them can afford to pay. All the following should be

set in the fall, at any time before the ground freezes, and protected with a light covering of coarse straw or evergreen boughs. They will flower early in the following spring.



SINGLE STRIPED TULIP.

We send these bulbs securely packed by mail post paid, to any address, at the prices quoted.

## HYACINTHS.

Among hardy bulbs the Hyacinth stands deservedly foremost on the list. It is not only a great favorite for the garden, but has become exceedingly popular as a winter flower from the facility with which it may be forced into bloom either in pots, or glasses filled with water. Nothing can be more delightful, either for beauty or fragrance, than a stand of these lovely flowers, in the parlor or drawing-room,



SINGLE PIED TULIP.



during these winter months.

Full directions for the management of Hyacinths for winter blooming have been so frequently given in periodicals, and catalogues devoted to horticulture, that we will omit them here.

Price of bulbs, single or double, of red, white, blue or yellow colors, 20 cents each, by mail post paid.

One bulb each, of the eight varieties, (four colors single, and four double,) \$1.50 by mail post paid.

#### TULIPS.

The Tulip is the most celebrated, popular, brilliant and showy of spring flowers; and not simply in effect alone, as many of the choice kinds



DOUBLE TULIP.

have a delicacy of penciling and richness of tinting which excel all other plants.

They are of easy culture, both for window and the open garden. They will thrive in almost any soil, a sandy soil enriched with well rotted cow manure is, however, preferable; and being perfectly hardy, they can well claim a prominent rank among hardy bulbs.

#### EARLY DWARF DUC VAN THOLL TULIPS.

The Duc Van Tholls are admired for their neat dwarf habit of growth, and brilliant colors. They are the earliest of all Tulips, and are especially adapted for pot culture, for winter blooming. The best effect is produced by planting in large pots, six, twelve, or more bulbs of mixed or different colors. They can also be highly recommended for early flowers out of doors, and produce a pretty effect when planted in masses.

Our collection consists of crimson, rose, scarlet vermillion, white, yellow and striped.

Price, mixed bulbs, each 5 cents. Per dozen 50 cents, by mail post paid.

#### EARLY FLOWERING DOUBLE TULIPS.

These can also be forced in pots, or they are a real ornament for the garden, as their large, early, fine colored flowers and dwarf habit, make them very desirable for bedding.

Price, mixed colors, each, 8 cents; per dozen, 75 cents.



THE CROCUS.

As one of the earliest ornaments of the flower garden, the Crocus is a universal favorite; being neat, dwarf and compact, and varied in all the essential shades of color for producing harmony of effect. It is particularly adapted to planting near the edge of flower gardens etc., so as not to require removal, or in forming lines or edges which after blooming may be removed. Like Tulips they should be planted at any time during the fall, before the ground freezes, placing the bulbs about two inches deep. They may be in groups of separate colors, or in blended varieties; They will improve several years if not disturbed.

We offer yellow, white, striped, blue and purple, separate or mixed, at 25 cents per dozen, or \$1.50 per 100, post paid by mail.

#### NARCISSUS.

The various classes of Narcissus are very attractive and showy flowers, producing on a tall stem large clusters of white and yellow cup shaped blossoms, and are particularly admired for their sweet jasmine perfume. They contrast finely with the Hyacinth and Crocus for garden, pot or window culture, and require the same treatment.

Prices: single, mixed, 5 cents each, 50 cents, per dozen. Double mixed, 8 cents each, 90 cents per dozen.





NARCISSUS.

### A CHAT WITH MY PATRONS AND CORRESPONDENTS.

One of the main objects in publishing this sheet, is that I may become better acquainted with my patrons. That through the medium of its pages a familiarity may spring up between us, that without its aid would be impossible. I therefore, wish to be allowed to drop the impersonal *we* in this department, and talk as freely as I would to a friend in person, without seeming egotistical.

I am continually receiving letters from my friends and patrons, which require answers which it is frequently impossible for me to give owing to lack of time. The same query is often propounded by different parties, and an answer to one will be of interest to many. Therefore, I wish all my patrons to receive SEED-TIME AND HARVEST, regularly, and of course wish all subscribers to become patrons. I have made the terms so liberal that all may do so.

There is probably no other business in which a man can engage, that requires the confidence of its patrons to a greater degree in order to make it a success, than the production and sale of seeds. A man may open a store and stock it with dry goods and groceries; if customers do

not come the goods may lay upon the shelves for months or years without diminishing in value, and the patrons can readily judge for themselves whether the articles offered for sale are worth the price asked or not. But it is not so with the seed business. A pound of old, mixed, impure, or wholly worthless seeds may appear just as valuable as the same quantity of the purest strains. Therefore, it behooves the purchaser to exercise the utmost care in deciding of whom to purchase his supply, as the amount paid for a quantity of seeds is but a tithe of the loss or damage in case they prove unreliable. I have selected the seed business as a life-work and give it my personal supervision. I am young in years and in business, this being the first real undertaking of my existence. It is my earnest wish, and highest earthly aim that it shall be in every particular a successful business. I would much rather keep every customer I have, though I make but a penny a year in my business relations with him, than to make a dollar and lose him. Remember, friends, my business is one that requires patronage, and your patronage is desired, and solicited. My goods must be sold while they are salable whether any thing is made on them or not. Some of my customers seem to think that it is almost an unpardonable transgression for them to bother me with an order for seeds, especially if they are so situated that they might have got them nearer home!

I recently received a small order from a lady in a western town, to whom I had sent my catalogue regularly for some years, who actually made a handsome apology for sending to me and troubling me to send her by mail a small list of seeds for which she inclosed an amount of cash more than sufficient to pay me the catalogue price for the same! She "might have got them nearer home," the letter said, but had "delayed until they were all sold, and must now trouble me for them!" Indeed! Isn't this a case of "loves labor lost?" Did she suppose I was sending her my catalogue merely to show her what a nice business I was doing at home, and what nice things she might purchase if she were only here! Little does it matter whether you live one mile or three thousand miles from La Plume, if I have anything on my lists that you, reader, would like to possess, and if the price is not more than you would be willing to give, to have the article delivered free of all expenses at your very door, I will thank you to favor me with the order whether it amounts to ten cents or ten dollars,



and you need not apologize for troubling me either. It is a real pleasure to me to receive a letter which shows that the writer is pleased after having made a purchase of me.

I find that people do not always order blindly, but have a reason for sending their orders where ever they do send them. The following order explains this feeling:

Monroe Co., N. Y.

April 10,

Dear Sir:—Being fully satisfied, after a trial of two or three years of your Garden Seed, and that it is not safe to trade houses when you are confident you have the best, I inclose you an order for myself and one or two neighbors.

Very Respectfully

Geo. Emerson.

This is quite suggestive, coming as it does from a county which claims to send out more seeds than any other in the Union, and the faith expressed in it is such as I would like to be permitted to instil into the bosom of every one who gives this page a reading.

#### EVERGREENS.

Mr. Tillinghast:—In passing your place I saw Evergreens. Will you please price them to me. I want some 50 or 100 of different varieties. Also please tell me best time to set, etc. I know nothing about handling them but wish to use them about my house and grounds. Also on bank of Lake.

In Haste,

R. S. Searle.

Answer:—I have a large number of Norway Spruce, Austrian Pine and Arbor Vitae. The weather was so very dry and hot last May, that I did not dare set any myself or advise others to do so, but I think they might be set safely now.

I will furnish good well rooted trees of the above varieties at ten dollars per 100. To successfully set them it is only necessary to keep the roots moist, never letting them dry for a minute. Otherwise treat as you would any other tree.

Owosso Mich. Aug. 9, 1880.

I. F. Tillinghast.

Dear sir:—I Suppose you understand the cabbage business pretty well and also claim to have some very nice seed. Now I'll tell you what I want. I want the seed to a variety of cabbage that will winter out well in cold frames; perhaps you would suggest more than one variety for that purpose, then I shall want some good varieties for selling plants in spring, and also for heads in summer, fall and winter.

I supply the town with milk and raise cabbages for a two fold purpose, namely, to make what I can in sales, and balance for feed for milch cows in fall and winter. Have you any experience in wintering out lettuce; If so what varieties do you succeed the best with? Send me the price of your seed.

Yours Respectfully,

James L. Wright.

Answer:—I have experimented with dozens of different varieties of cabbage, and think those named in my seed-list possess more desirable qualities than any others. The first five there named are all suitable for wintering over, and the Fottlers Drumhead and Premium Flat Dutch are standards for later use. Lettuce is seldom "wintered over," but that sown under glass in the fall is usually marketed by February so that the space may be occupied by other plants.

For early out-door setting the Boston Market and Black Seeded Tennisball are the varieties most frequently used for forcing under glass.

#### TOMATOES AND ASPARAGUS.

Dear sir:—I want to get all the information I can on the cultivation of Tomatoes. Does your Manual of Vegetable Plants, treat much on the tomato?

Would Asparagus be any earlier if I dig trenches, say 8 ft. wide and 6 ft. deep running E. & W. (well drained) and plant asparagus in the bottom without any covering or artificial heat?

Yours Very Truly,

T. Chapman,

Manson, N. C.

Answer:—My Manual of Vegetable Plants, does not treat on tomatoes, although it does upon nearly every other important vegetable. We sow our tomato seed early in March, quite thickly in drills four inches apart, in a hot bed, (full information for making hot beds will be given in the next number of this magazine.) To produce good stocky plants it is necessary to transplant them two or three times, each time give them more room to grow thick and stocky, and produce an abundance of fibrous roots.

Tomatoes do not require very rich land, but should be placed in an early, warm, sheltered position and manured a little in the hill. This will give the vines a good start when young and as soon as the roots grow through into the poorer soil the vines will cease to grow so rank and ripen early. We do not stake them up but hill them pretty high and let them run.



## GARDENING IN TEXAS.

LOCKHART, TEXAS.

Mr. I. F. Tillinghast,

Dear sir:—Please send me at your earliest convenience, your catalogue with prices. Is the Early Ohio the best producing early potato, if not, which is, and what is the price per barrel, and what will the freight cost to New York, as I will have to get them via the Malory line of steamers?

No sugar corn that I have tried ever comes to any thing in our climate, the ears come out at the ground and the stalk does not grow over two feet high; and the ears never grow more than four inches long, and never half fill. Can't you furnish me with some good kind of early corn that will make good sized ears?

The cabbage seed you sent me in the fall, came up better than any I have ever planted.

Will cauliflower planted in the spring produce a head during the summer?

What is the most practical and useful work on gardening. I mean a cheap work?

W. F. Blunt, M. D.

Lockhart, Cadwell Co., Texas.

Answer:—The Early Ohio has been for several years considered our very best early potato. But since the advent of the Beauty of Hebron it has had to take a back seat, in favor of that justly celebrated variety. It is still a good variety for planting on rich garden soil, but the B. of H. all things considered is better.

Potatoes are billed at 180 lbs., per bbl. and the cost of freighting them to New York is 59 cents per bbl. Or, they can be sent to Philadelphia for 61 cents, or to Baltimore, Md., for 76 cents per barrel.

2d I know nothing, practically, about the soil and climate of Texas, and cannot advise as to the best Sugar Corn for that locality, but should think that the Early Minnesota or Crosby's Extra Early, would do as well as any.

3d Am glad to hear my strains of Cabbage Seed pleased you, though to do otherwise would be an exception to a very general rule.

4 Cauliflower Seeds sown at any time before June will head in this locality, and I think they will also with you. For earliest use the seeds are sown in the fall and the plants wintered over in cold frames, or what will answer nearly as well, sow in March in a hot-bed and transplant in cold-frames as soon as large enough to prick out. They require a rich, deep soil, and frequent watering to thrive well.

5. If you have my "Manual of Vegetable Plants, and Henderson's "Gardening for Profit," White's "Gardening for the South," will probably be the next best for your use.

## EARLY CABBAGES.

Newport, R. I. Sept. 30. 1880.

Isaac F. Tillinghast,

Dear Sir:

I had some of your "Hendersons Early Summer." Cabbage in market the 1st of July last, and they were the best ever seen in Newport so early in the season. Hoping I may be successful again, I remain,

Truly Yours, Corn's. Twomey.

## Our Prizes.

In regard to the Special Prizes offered in the July number of SEED-TIME AND HARVEST, we will simply say that every competitor received a prize worth more than the total amount of money sent in by him on subscriptions. We suppose that the time of year was unfavorable for work of that character and do not doubt but that we shall have more competition during the winter and spring. A full statement of the awards has been sent to every competitor.

Now we are determined that our seeds shall be put into thousands of new hands for trial during the next six months, and will again try to induce *you* to help do it.

As the uncertainty of gaining a prize deterred many from trying, we propose to pay in such a manner that every one who tries to help us will *certainly* get good pay for all his labor in our behalf.

There are hundreds of thousands of persons in this country who would willingly and quickly accept our very liberal offer of *Seed-Time and Harvest for one year and their own selection of seeds in packets from our list to the amount of fifty cents, all post-paid by mail for fifty cents*, if they only had their attention called to it.

Now if you will show this offer to your friends and forward their subscriptions to us, we will allow you a commission of 40 per cent. on all you collect, providing you get at least five subscribers. This will net you 20 cents on each, which will pay you well, and *in addition* to this commission we offer the special prizes on the second cover page. We do all this simply to put our seeds in new hands, hoping thereby to gain new customers and make new friends.

**A Blunder** was made in paging the first form of this issue which was not discovered until several thousand copies had been run off. The continuation of the article on "Small Fruits" on the 3d page will be found on the 8th page, and the continuation of the article on "Clover as a Fertilizer." will be found upon the fourth page.



# A Decided Bargain

Open Until Christmas 1880.

Among all our exchanges we think there are no two better worth the subscription price than the *Farm and Fireside*, and the *Home and Farm*. Believing that all our patrons who become acquainted with them will thank us for calling their attention to these papers, we have made special arrangements with the publishers whereby we are enabled to club them with our SEED-TIME AND HARVEST, at a rate which is a *decided bargain*.

The *Farm and Fireside* is published on the 1st and 15th of each month. It contains sixteen pages filled with well-written articles from the best writers in this country. Each number has the following departments: The Farm, Household, Fireside, Sunday Reading, Young Folks, Puzzles, Amateur Science Club, News Notes, Queries, and Full Market Quotations. The number before us, (October 1st) contains forty-five columns of very interesting and instructive reading matter exclusive of the advertisements. Had the price for this paper alone been \$1.00 per year we should say it was cheap and well worth it.

The *Home and Farm* is also published semi-monthly. It contains eight pages, each issue, but the pages are nearly twice as large as the above. It is filled with about the same class of reading matter, and is also offered at an astonishingly low price.

Each of these papers have an actual circulation of over one hundred thousand copies, and were their merits and cheapness known they would soon double those figures. We are now forming clubs for each and in order to enroll a handsome list in a short time we make the following

## Extraordinary Offer!

For 75 cents we will furnish either of the above papers (your choice) for one year, also our SEED-TIME AND HARVEST for one year, and your own selection of Seeds in packets from our list to the amount of Fifty cents, all postpaid.

For \$1. we will furnish both the above papers and SEED-TIME AND HARVEST and the Seeds as above. Specimen copies free upon application.

It is not necessary to make the selection of seeds before ordering. We will send a certificate entitling the holder to select them at any time. This offer positively closes on Christmas day 1880. All money sent on these subscriptions may count on our Special Prizes also. Address all orders,

SEED-TIME AND HARVEST,  
LA PLUME, LACK'A CO., PA.

# Seed-Time and Harvest

Clubbing List for 1881.

FOR MANY YEARS we have taken subscriptions for the principal Journals of the United States, and especially those devoted to Agriculture and Horticulture. By taking large numbers of subscriptions we are enabled to get publishers' lowest rates, and when we are enabled to do so we give our patrons the benefit of the deduction. In such cases our prices are frequently lower than any one could possibly secure except through a large club like ours. On some papers we can give no discount as the publishers have no clubbing terms, but we put them on our list because we think they are well worth all they cost. We give below a list of standard publications for which we receive subscriptions and the price of each. We club SEED-TIME AND HARVEST with any of them for 15 Cents additional to the price in the second column.

Please see if there is anything in this List that you need, and, if so, we should be glad to receive your order.

THE FIRST COLUMN gives the Publishers' price, and the *Second Column* our price.

American Agriculturist, M.....	\$1 50	\$1 10
American Cultivator, W.....	2 00	1 75
American Bee Journal, M.....	1 50	1 25
American Rural Home, W.....	1 50	1 40
Atlantic Monthly.....	4 00	3 50
Coleman's Rural World, W.....	1 50	1 40
Country Gentleman, W.....	2 50	2 15
Demorest's Monthly.....	2 50	2 00
Demorest's Monthly with Premium.....	3 00	2 50
Farm Journal, M. (Philadelphia).....	50	35
Fireside Companion, W.....	3 00	2 60
Floral Cabinet, with Premium, M.....	1 30	1 25
Forest and Stream, W.....	4 00	3 50
Fruit Recorder M.....	1 00	75
Gardener's Monthly and Horticulturist.....	2 10	1 75
Harper's Magazine, M.....	4 00	3 40
Harper's Weekly, and Bazar, each.....	4 00	3 60
Harper's YOUNG PEOPLE.....		1 50
Hall's Journal of Health, M.....	1 50	1 30
Herald of Health, M.....	1 00	90
Household, (Vt.) M.....	1 10	80
Home and Farm, S. M. See Special Offer.....	50	50
Lippincott's Magazine, M.....	4 00	3 50
New England Farmer, W.....	2 15	2 00
New York Herald, W.....	1 00	90
New York Evening Post, W.....	1 50	1 40
New York Ledger, W.....	3 00	2 50
New York Witness, W.....	1 50	1 40
New York Tribune, W.....	2 00	1 25
Park's Floral Gazette, M.....	50	50
Peterson's Magazine, M.....	2 00	1 60
Phrenological Journal, M.....	2 00	1 75
Poultry World, M.....	1 25	1 00
Prairie Farmer, W.....	2 00	1 75
Rural New Yorker W.....	2 00	1 90
Scientific American, W.....	3 20	2 90
St. Nicholas, M.....	3 00	2 75
Scribner's Monthly,.....	4 00	3 60
Scientific News, M.....	1 00	85
Saturday Evening Post, W.....	2 00	1 50
Vick's Magazine, M.....	1 25	1 15
Wide Awake, M.....	2 00	1 75

ANY NEWSPAPER OR MAGAZINE Not on the above list can also be procured at *Club Rates* by applying to

SEED-TIME AND HARVEST,  
LA PLUME, Lack'a Co., Pa.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**ARTHUR'S HOME MAGAZINE.**—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**DEMAREST'S MONTHLY,** devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**PETERSON'S MAGAZINE.** Chas. J. Peterson & Co., Philadelphia, comes again with its monthly greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

**LIPPINCOTT'S MAGAZINE.** J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PHRENOLOGICAL JOURNAL.** S. R. Wells, & Co., New York, ranks ahead of any other in America in its specialty. Each number contains a fine portrait of some gentleman of note, with an analysis of his character, and much other matter of interest to every one who would know himself.

**THE PRAIRIE FARMER.** A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 78 Duane Street, New York.

**VICK'S MONTHLY MAGAZINE,** Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**THE GARDENER'S MONTHLY AND HORTICULTURIST.** Edited by Thos. Mehan and published by Charles H. Marot at Philadelphia Pa., at \$2.10 per year. It gives full instructions in the science and practice of every branch of gardening.

**THE AMERICAN CULTIVATOR.** Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE LADIES' FLORAL CABINET** is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.

**Semi-Tropic California,** monthly, Carter & Rice Los Angeles, \$1.50 per year, devoted to the agricultural interests of the Golden State, is edited with the usual "snap" for which the great West is noted.

**The Housekeeper,** Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**THE HERALD OF HEALTH.** Wood and Holbrook, 15 Laight St., New York. One of the oldest and best sustained health publications issued. Has an excellent corps of eminent writers who strive to elevate the mind as well as strengthen the bodies of mankind.

**HALL'S JOURNAL OF HEALTH.** New York. This publication differs in the fact that it is composed entirely of short and concise editorial articles upon the most common causes of loss of health, and best methods of regaining it. Ought especially to be read by the young.

**THE AMERICAN BEE JOURNAL.** Monthly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$1.50 per year.

**THE SCIENTIFIC NEWS,** published bi-weekly by Mr. S. H. Wales & Son, N. Y., should be in the hands of every mechanic. It is devoted to Science, Arts, Inventions, Patents, Shop and Household economy. It is finely illustrated. \$1.00 per year.

**GLEANINGS IN BEE CULTURE,** monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

**AMERICAN RURAL HOME.** A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

**THE WEEKLY WITNESS.** John Dougal & Co., New York. Contains News of the Day, Prices Current, Financial Reports, Spirit of the New York Daily Press, Home Department, General Correspondence, also Departments for Agriculture, Temperance, Sabbath School, Religious Reading, Stories &c. It gives more reading matter than any other religious weekly.

**The Poultry Monthly,** published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

### PURDY'S RECORDER

Best paper on fruit and flowers. Specimen free. Speaks for itself. Address PURDY, of Palmyra, N. Y.

## PURDY'S SMALL FRUIT INSTRUCTOR.

Tells in plain, simple language how to plant and grow all kinds of Small Fruit for home and market; how to make a Dry-House; profits of the business; sorts, with description; how to market; manures; crates; different plans for growing; garden and market plans; soils, preparation, etc., etc. 64 pages *postpaid* for only 25c. Postage stamps accepted. Also his Catalogue on

### SMALL FRUITS

16 pages. Very instructive. FREE TO ALL applicants. Address PURDY, of Palmyra, New York.



# Isaac F. Tillinghast's

PRICE-LIST OF SELECT

VEGETABLE AND FLOWER SEEDS,

For 1880.

ANY of the following Seeds will be sent by mail or express, free of all charges, to any address in the United States, upon receipt of the prices named below, except Peas, Beans, and Corn ordered in quantities greater than pints. We think we have made our prices as low as we ought to accept for Seeds of so fine a quality as we know these to be, yet as there seems to be a disposition on the part of some dealers to cut under on the prices of some articles, we offer to any one wishing to purchase a large amount, considerable discounts on these prices. *Prices are liable to change at this time of year without notice. Our corrected list for 1881 will be ready Jan. 1st.*

☞ All our seeds are WARRANTED to the amount paid for them only.

Every person who purchases from this list to the amount of \$1., gets Seed-Time and Harvest free for one year.

Beans.	Pkt.	Pint.	Peck.
Early Feejee.....	\$0.10	\$0.30	\$1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	15	40	3.00
Ferry's Golden Wax.....	15	40	3.00
Large White Marrowfat.....	10	25	1.50

Pole Beans.	Pkt.	Pint.	Peck.
Concord.....	10	35	2.00
Kentucky Wonder (New)....	20	—	—
German Wax.....	10	35	2.00
Dreer's Improved Lima.....	15	40	—

Corn.	Pkt.	Pint.	Peck.
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	30	1.00
Triumph.....	10	30	1.00
New Egyptian.....	10	30	1.50
White Rice Pop-Corn.....	10	35	—
Reynolds's Improved Field .	10	25	0.75

Peas.	Pkt.	Pint.	Peck.
Philadelphia Extra Early ...	10	30	2.00
Daniel O'Rourke.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
McLean's Blue Peter.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	25	1.50

Asparagus.	Pkt.	Oz.	Lb.
Conover's Colossal.....	05	10	0.75

Beets.	Pkt.	Oz.	Lb.
Early Egyptian.....	05	08	.75
Bassano.....	05	08	.75
Dewing's Red Turnip.....	05	08	.75
Long Smooth Blood.....	05	08	.75

Mangel Wurzel Beets.	Pkt.	Oz.	Lb.
Yellow Globe.....	05	08	.65
Norbital's Giant.....	05	08	.65
Webb's New Kinver.....	05	08	.75
Imperial Sugar.....	05	08	.65

Broccoli.	Pkt.	Oz.	Lb.
Early Purple Cape.....	10	60	—
White Cape.....	10	60	—
Walcheran.....	10	60	—

Brussels Sprouts.	Pkt.	Oz.	Lb.
New Dwarf.....	05	25	—

Cauliflower.	Pkt.	Oz.	Lb.
Lackawanna (New).....	20	2.00	—
Earliest Dwarf Erfurt.....	15	1.25	—
Early London.....	10	.75	—
Nonpareil.....	15	1.25	—
Lenormand's Short Stem....	15	1.25	—

Cabbage.	Pkt.	Oz.	4-Oz.	Lb.
True Jersey Wakefield.....	05	25	1.00	4.00
Henderson's Early Summer..	05	25	1.00	4.00
Newark Early Flat Dutch....	05	25	1.00	4.00
Early Wittingstadt.....	05	20	.75	3.00
Fottler's Early Drumhead....	05	20	.75	3.00
Premium Flat Dutch.....	05	20	.75	3.00
Late American Drumhead....	05	20	.75	3.00
Marblehead Mammoth.....	05	20	.75	3.00
Perfection Drumhead Savoy..	05	20	.75	3.00
Red Drumhead,.....	05	20	.75	3.00

Celery	Pkt.	Oz.	4-Oz.	Lb.
Dwarf White Solid.....	05	20	.75	3.00
Boston Market.....	10	25	1.00	4.00
Sandringham.....	05	20	.75	3.00
Giant White Solid.....	05	20	.75	3.00

Carrot.	Pkt.	Oz.	4-Oz.	Lb.
Early Short Horn.....	05	10	.40	1.60
Improved Long Orange.....	05	10	.40	1.60
Danvers Orange.....	05	10	.40	1.60
White Belgian.....	05	10	.40	1.60

Cucumber.	Pkt.	Oz.	4-Oz.	Lb.
Early Cluster.....	05	10	.30	1.00
Early Russian.....	05	10	.30	1.00
Early White Spine.....	05	10	.30	1.00
Green Prolific.....	05	10	.30	1.00
Long Green.....	05	10	.30	1.00

Chicory.	Pkt.	Oz.	4-Oz.	Lb.
Large Rooted.....	05	15	.30	1.00

Cress.	Pkt.	Oz.	4-Oz.	Lb.
Curled, or Peppergrass.....	05	10	.25	.75
Water Cress.....	10	60	—	—

Egg Plant.	Pkt.	Oz.	4-Oz.	Lb.
Long Purple.....	10	40	—	—
Improved N. Y. Purple.....	10	60	—	—

Kohl Rabi.	Pkt.	Oz.	4-Oz.	Lb.
Early White Vienna.....	10	35	—	—

Lettuce.	Pkt.	Oz.	4-Oz.	Lb.
Hanson.....	05	35	—	—
Victoria.....	05	35	—	—
Early Curled Simpson.....	05	35	—	—
True Boston Market.....	05	35	—	—
White Seeded Tennisball....	05	35	—	—
Black Seeded Tennisball....	05	35	—	—
Drumhead, or Malta.....	05	35	—	—

Leek.	Pkt.	Oz.	4-Oz.	Lb.
Large Scotch Flag.....	05	20	—	—

Musk Melon.	Pkt.	Oz.	4-Oz.	Lb.
Nutmeg.....	05	10	.30	1.00
Skillman's Netted.....	05	10	.30	1.00
Ward's Nectar.....	05	10	.30	1.00
Improved Yellow Cantaloupe	05	10	.30	1.00
Green Citron.....	05	10	.30	1.00
Pine Apple.....	05	10	.30	1.00
Jenny Lind.....	05	10	.30	1.00
Surprise, [New].....	10	30	—	—

Water Melon.	Pkt.	Oz.	4-Oz.	Lb.
Phinney's Early.....	05	10	.30	1.00
Striped Gipsev.....	05	10	.30	1.00
Ice Cream.....	05	10	.30	1.00
Mountain Sweet.....	05	10	.30	1.00
Ferry's Peerless.....	05	10	.30	1.00
Citron, (for preserving,).....	05	10	.30	1.00

Mustard.	Pkt.	Oz.	4-Oz.	Lb.
White French.....	05	05	.15	0.50
Black American.....	05	05	.15	0.40

Onion.	Pkt.	Oz.	4-Oz.	Lb.
Extra Early Red Globe.....	}	}	}	}
Yellow Danvers.....				
Red Wethersfield.....				
Large Yellow Dutch.....				
White Globe.....				
White Portugal.....	}	}	}	}
New Queen.....				

Prices on application.



<b>Parsnip.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>4-Oz.</i>	<i>Lb.</i>
Hollow Crowned.....	05	10	.25	0.75
Smooth Dutch.....	05	10	.25	0.75
<b>Parsley.</b>				
Extra Fine Curled.....	05	15		
<b>Pepper.</b>				
Sweet Bell or Bull Nose.....	10	30	1.00	4.00
Large Sweet Mountain.....	10	20	1.00	4.00
Red Cayenne.....	10	30	1.00	4.00
Spanish Monstrous (New)....	10	40		
<b>Pumpkin.</b>				
Large Cheese.....	05	10	.25	0.75
Sugar. (Best for pies.).....	10	20		
Connecticut Field.....	05	05	.15	0.35
<b>Radishes.</b>				
Early Scarlet Turnip.....	05	10	.30	0.90
Early White Turnip.....	05	10	.30	0.90
Long Scarlet Short-Top.....	05	10	.30	0.90
Early Scarlet Olive.....	05	15	.35	1.00
French Breakfast.....	05	10	.30	1.00
China Rose Winter.....	05	10	.30	1.00
Black Spanish Winter.....	05	10	.30	1.00
California Mammoth White..	05	15	.40	1.40
Grey Summer Turnip.....	05	15	.40	1.40
Golden Yellow Summer (New)	05	15	.50	1.50
<b>Salsify, or Vegetable Oyster.</b>				
White French.....	05	25	.75	3.00
<b>Spinach.</b>				
Round Leaved.....	05	10	.20	0.50
Monstrous Viroflay.....	05	10	.25	0.65
<b>Squash.</b>				
Early White Bush.....	05	10	.30	1.00
Summer Crookneck.....	05	10	.30	1.00
Hubbard.....	05	15	.40	1.25
Marblehead.....	05	15	.40	1.25
Butman, (New,).....	05	15	.40	1.25
Cocoanut, (New,).....	10	30		
Mammoth.....	10	30		
<b>Tobacco.</b>				
Connecticut Seed Leaf.....	10	30		
Kentucky Broad Leaf.....	10	30		
<b>Turnip.</b>				
Early White Dutch.....	05	10	.25	0.75
Purple Top Strap Leaf.....	05	10	.25	0.75
Long White Cow Horn.....	05	10	.25	0.75
Yellow Aberdeen.....	05	10	.25	0.75
Yellow Globe.....	05	15	.25	0.75
Golden Ball.....	05	10	.25	0.75
<b>Rutabaga, or Swede Turnip.</b>				
White French, or Sw't German	05	10	.25	0.75
Skirving's Purple Top Yellow	05	10	.25	0.75
Brill's American Yellow.....	05	10	.25	0.75
Shamrock Swede, Yellow.....	05	10	.25	0.75
<b>Tomato.</b>	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>	
Acme, [New,].....	05	0.25	0.50	
Red Chief, [New,].....	05	0.25	0.50	
Red Currant.....	05	0.25	0.50	
Paragon.....	05	0.25	0.50	
Canada Victor.....	05	0.15	0.30	
Conqueror.....	05	0.15	0.30	
Hathaway's Excelsior.....	05	0.15	0.30	
Trophy.....	05	0.15	0.30	
Arlington.....	05	0.15	0.30	
Green Gage.....	05	0.15	0.30	
Golden Trophy.....	05	0.20	0.40	
North Star, (New).....	25			



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

**EXPLANATION.**—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—  
a.—annual. b.—biennial c.—climber- e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a.....	.05
Acroclinium album, white, a. e.....	05
..... roseum, rose, a. e.....	05
Adonis vernalis, scarlet, a.....	05
..... autumnalis, crimson, a.....	05
Ageratum Mexicanum, blue, a.....	05
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa p.....	.05
..... alba, white, p.....	05
..... atro-sanguinea, crimson, p.....	05
Alyssum maritimum, sweet, white, a.....	05
Amaranthus caudatus, crimson, a.....	05
..... melancholicus ruber, d'k crimson.....	05
..... salicifolius, scarlet and purple, a.....	.15
Ammobium alatum, (Immortelle,) white, e.....	.05
Anemone ranunculifolia, p.....	.15
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a. 10 colors mixed.....	.05
Aquilegia hortensis, double, m. p.....	.10
..... chrysantha, new golden-spurred.....	.15
..... finest varieties mixed.....	.10
Aster, pæony-flowered, extra fine, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau, m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05
Cacalia, (Tassel Flower,) scarlet and yellow a.....	.05
Calandrina grandiflora elegans, rosy pink a.....	.05
Calceolaria scabiosæ-folia, new, p.....	.10
Callirhoe pedata nana, purple crimson, a.....	.05
Campanula trachelium, double, b.....	.10
..... nobilis alba b.....	.10
..... medium, (Canterbury bells,) double.....	.05
Candytuft, rocket selected, m, a.....	.05

<b>Herb Seeds.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Pkt.</i>	<i>Oz.</i>
Coriander.....	05	.20	Dill.....	05 .25
Horehound.....	10	50	Sage.....	05 20
Summer Savory.....	10	30	Saffron.....	05 25
Sweet Marjoram.....	10	40	Lavender.....	10 30
Caraway.....	05	15	Sweet Basil.....	10 40
Sweet Feunel.....	05	20	Thyme.....	10 50

### Grass Seeds.

Timothy, Clover, &c., at Market Rates.



# SEED-TIME AND HARVEST.

Candytuft fragrant m. a. ....	05
..... hybrid dwarf m. a. ....	10
Canna Ind ca, 5 colors mixed, a. ....	05



Carnation, double picotee, m. a. ....	15
..... early dwarf m. a. ....	10
Celosia cristata, —cockseomb— 6 colors mixed	05
..... variegata new, m. a. ....	10
..... crimson, gold and fire-feathered, m. a.	10
Centaurea Babylonica, new p. ....	10
..... cyanus minor m. p. ....	05
Centranthus macrosiphon m. a. ....	05
Chrysanthemum carinatum, m. a. ....	05
..... double white new	05
..... Indicum grandiflorum, m. p. ....	10
Clarkia pulchella m. a. ....	10
..... elegans, new double, pure white	15
Cobæa scandens, purple c. p. ....	10
Coix lachrymæ, Job's Tears, ....	05
Colutea floribunda ....	05
Collinsia multicolor marmorata, a. m. ....	05
Convolvulus minor, m. a. ....	05
..... major, Morning-glory, m. a. ....	05
Coreopsis tinctoria m. a. ....	05
Cucurbita, Ornamental gourds, m. a. ....	05
Datura fatuosa, double purple a. ....	05
..... white a. ....	05
..... Wrightii, new double, a. ....	05
Delphinium (Larkspur,) dwarf double, m. a. ....	05
..... tall German rocket	05
..... dwarf branching double,	10
Dianthus dentosus hybridus, m. a. b. ....	10
..... sinensis double m. a. b. ....	10
..... barbatus, [Sweet William,] p. m. ....	05
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Eschscholtzia Californica, yellow a. ....	05
..... tenuifolia, new a. ....	05
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Geranium, zonale and inquinans mixed, a. p. ....	15
Gilia tricolor, blue white and lilac m. a. ....	05
Globe Amaranth 6 colors m. e. a. ....	05
Godetia, Lady Albemarle, new large crimson a.	15
..... roseo albo Tom Thumb a. ....	05
Helichrysum lucidum m. a. e. ....	05
..... dwarf m. a. e. ....	05
..... monstruosum, double m. a. e. ....	05
Helianthus globosus fistulosus a. ....	05
..... Californicus, double a. ....	05
Helipterum Sanfordii, yellow everlasting, ....	10
Hollyhock Chinese double a. ....	10
Honey-suckle, Hedysarum coronarium m. a. ....	05
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Jacobœa, Senecio elegans double m. a. ....	05
..... dwarf double m. a. ....	05
Lantana hybrid m. ....	05
Linaria bipartita flora albo a. ....	05
..... purpurea, snapdragon a. ....	05
Linum grandiflorum roseum a. ....	05
Lobelia Erinus grandiflora superba ....	05
Lupins, Dunnettii superbus, new a. ....	05
..... tricolor elegans new a. ....	05
..... polyphyllus mixed p. ....	05
Lychnis chalcædonica, white and scarlet m. p. ....	05
..... Haageana hybrida new p. ....	10

Marvel of Peru hybrid, Four o'clock, m. a. ....	05
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Mignonette, Roseda odorata, sweet-scented a.	05
..... large-flowering a. ....	05
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Ricinus sanguineus, castor oil bean a. ....	05
..... major, largest variety a. ....	05
Salpiglossis hybrid blue and scarlet m. a. ....	05
Salvia ecceinea a. p. ....	05
Scabious major, mourning bride m. a. ....	05
..... minor, dwarf double m. a. ....	05
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Tropæolum majus, Tall Nasturtium, a. ....	05



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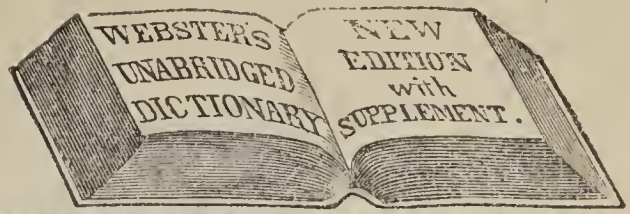
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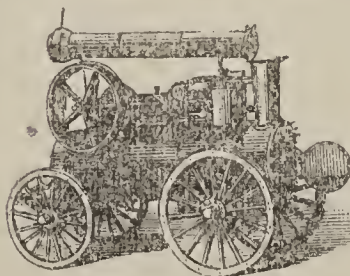
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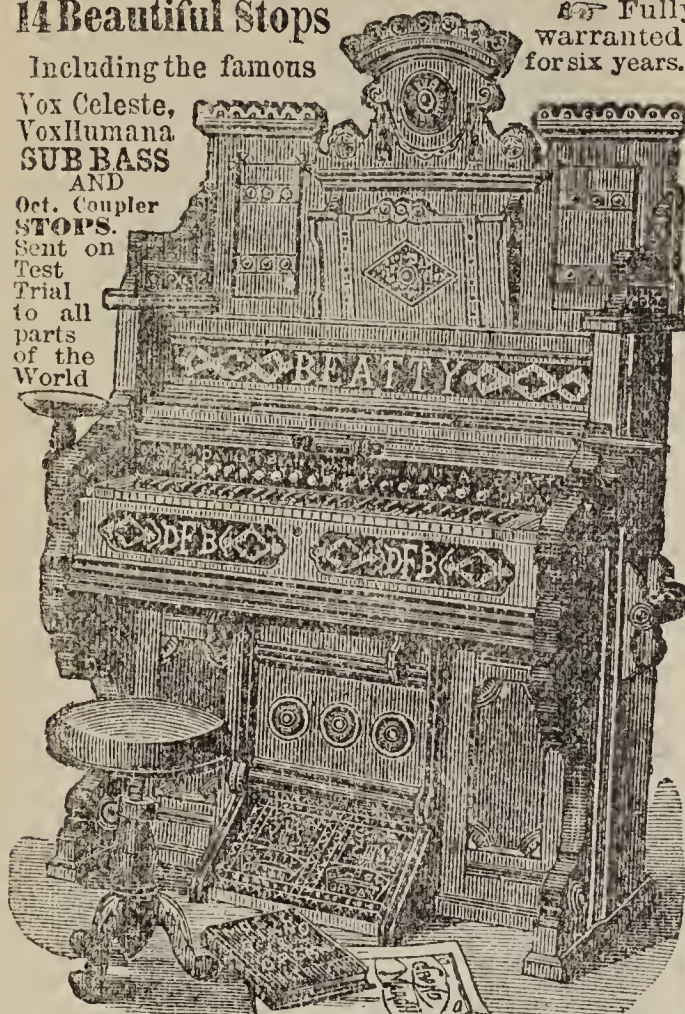
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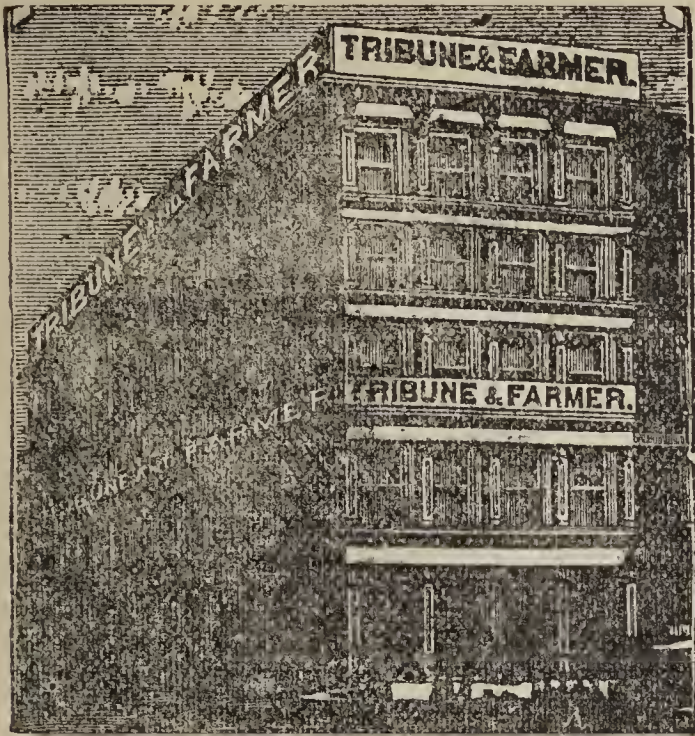
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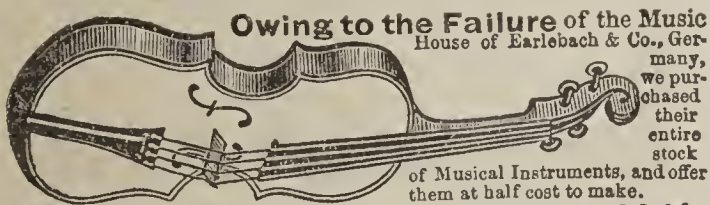
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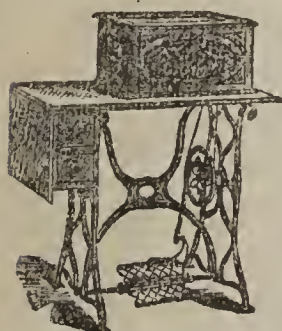
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The Radish Maggot  
The Use of Lime  
Plaster or Gypsum  
Special or Commercial Fertilizers  
Preparing Ground for Cabbage Plants  
Cultivation  
Transplanting  
Varieties  
The Cut-Worm  
The Green Cabbage Worm  
Salting Cabbage  
Watering Plants in Seed Bed

#### CELERY PLANTS

#### ASPARAGUS PLANTS

#### STRAWBERRY PLANTS

Setting the Plants

#### PACKING PLANTS FOR TRANSPORTATION—

Care on Arrival

#### GROWING SQUASHES

#### THE POTATO—

Notes on the Newer Varieties

### PART SECOND.

#### GROWING PLANTS IN THE OPEN GROUND.

#### CABBAGE PLANTS—

Club Root  
The Cabbage Maggot  
Cotton Sheeting for Covers  
Shutters  
Use of "Flats"  
Small Boxes For Single Plants  
Planting Early Cabbage Seed  
Soil for Hot-Beds  
Temperature  
Air and Light  
Damping Off  
Watering  
Cauliflower and Celery Plants  
Tomato, Pepper, and Egg Plants  
Lettuce  
Sowing Fine Seeds  
Transplanting  
Assorting  
Mice—Preventing Depredations  
Cold Frames

#### SWEET POTATO PLANTS

Growing at the North  
How to Prepare the Ground  
Best Varieties  
Requisites to Complete Success

☞ Should you wish to know more concerning this book, we will, upon application, send a special circular giving full particulars with the opinions of many who have read it.

### **SPECIAL OFFER!**

For a limited time I will present a copy of this book in cloth binding to any person requesting it when ordering Seeds of me to the amount of \$1. or more; or in paper covers to any one ordering seeds to amount of 50 cents. No other premium to be given in either case.

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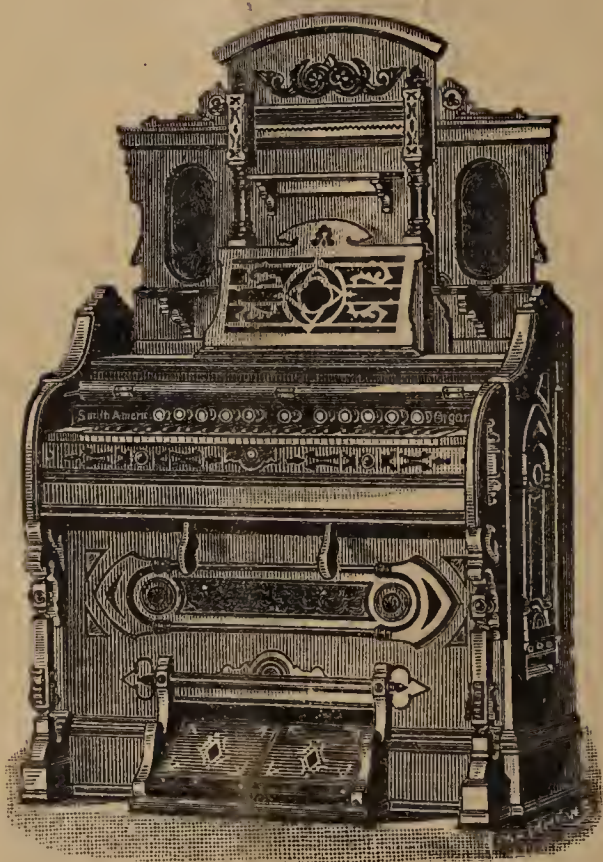
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Number Five.

Seed-Time and Harvest.

JANUARY, 1881.



(NEW LACKAWANNA CAULIFLOWER.)

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An Illustrated Quarterly Horticultural  
Magazine.

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Isaac F. Tillinghast, Editor & Publisher.

LA PLUME, LACK'A CO., PA.



# SPECIAL OFFERS AND PRIZES.

We propose during the next six months to add at least Ten Thousand New Names to our subscription list and to that end we hereby make the following

## GRAND OFFERS TO THE PEOPLE.

**1st.** For 25 cents we will send SEED-TIME AND HARVEST for one year.

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*Agents and canvassers will be allowed a commission of forty per cent. on the two above offers, providing at least five subscriptions are sent in at a time. On the following offers no commission will be allowed:*

**3d.** For 75 cents we will send SEED-TIME AND HARVEST, and 50 cent certificate as in above numbers, and in addition One Years Subscription to either *Farm and Fireside*, or the *Farm Journal*, (the subscribers choice,) both being well conducted agricultural papers, well worth seventy-five cents per year alone.

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## TEN SPECIAL PRIZES!

In addition to the above, and all other offers and prices in this or any other list published by us, as a special inducement for agents to introduce our Magazine and Seeds, we offer the following Special Prizes to the ten persons who send us the most money between this date and June 1st 1881, the person sending the most money to receive the first and so on, *providing only that no prize shall be awarded unless the total amount sent in by the contestant shall equal its value, as given below.*

1 Gift of One Grand Parlor Organ,	\$160.00.
1 Gift of a Family Sewing Machine, either a Singer, White or Domestic.	45.00.
1 Gift of a Silver Hunting Cased Watch,	25.00.
1 Gift of a Websters Unabridged Dictionary,	12.00.
1 Gift of an Order for Garden Seeds,	10.00.
1 Gift of a Handsome Calendar Clock,	5.00.
1 Gift of an Open Faced, Stem Winding American Watch,	4.00.
1 Gift of a Nickle cased Cricket Clock,	2.50.
1 Gift of an American Popular Dictionary,	2.00.
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All persons competing for these prizes must say "Competitor for prize" on every order sent in, otherwise we may fail to credit the amount sent.

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# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO. 5,

JANUARY,

1881.



' The Pride of America Potato.

My friends and patrons who have received my seed catalogue for three years past will remember that I have frequently spoken very highly of a new variety of potato sent me on trial by Mr. E. S. Brownell, of Vermont, under the name of "Early Williston." For three years in succession it has shown decided superiority in my trial patch. This potato was first offered to the public last Spring by Messrs. B. K. Bliss & Sons, as "Pride of America," Mr. Brownell having decided to change its name before making it public. It is a very smooth and beautiful variety having a white skin somewhat resembling the Snowflake. Its cooking qualities are very fine, and I think it will become very popular. I can supply a limited quantity at 75 cents per pound post paid by mail. By express or freight, per peck 75cts, bushel \$2.50, barrel \$7.00.



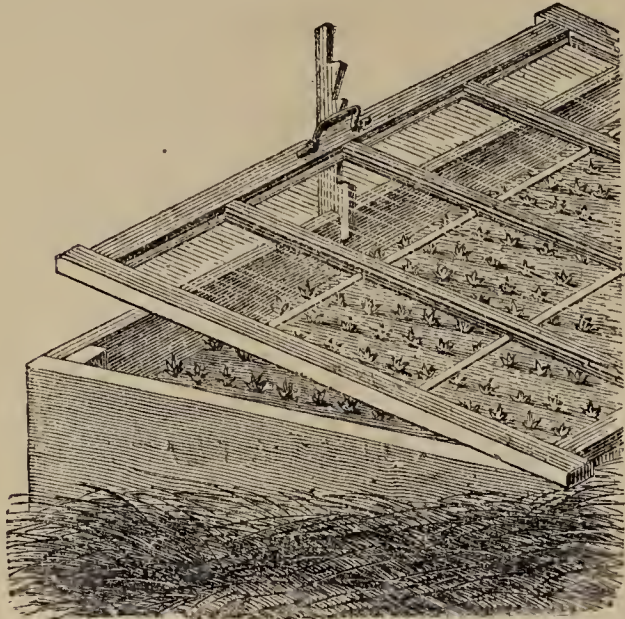


Figure 1.

**HOT BEDS.*****How To Construct And Manage Them.*****MANURE BEDS.**

The construction and management of Hot Beds, is an exceedingly simple matter, and yet it requires careful attention to keep plants growing in a healthy condition.

Manure Beds, are most commonly used, horse manure being preferable to any other readily available substance. Fresh manure recently removed from the stable is best, but if it is made in too small quantities it should be frequently spread through the winter in order to keep it from heating and spoiling before spring. If a good proportion of fine straw or forest leaves are used in the bedding it improves the manure greatly for hot bed purposes.

When ready to begin operations the manure should be forked over, shaken out finely and thrown into a high conical heap to heat, if any-ways dry it should be watered until well dampened throughout the heap. Leave it standing in this heap about a week and it will surely heat and begin smoking like a small volcano.

There are now two methods for forming the bed, some digging a pit and sinking the manure in it, and others simply building the manure up into a square bed and setting the frame on it; the first named method requires the most labor, the second the most manure, so we will let labor vs. manure decide which you shall adopt.

Fig. 2, shows a perspective view of a bed constructed on the manure without a pit. If the manure is fine, and contains little, or no long straw it will be found necessary to put a plank frame around the manure to keep it in position.

After leveling the manure there should be three or four narrow boards laid across it on which to rest the hot bed frame, so that after the manure heats all will settle together evenly, otherwise the weight of the frame and sash will force it down into the manure, and the centre of the bed will appear to raise and perhaps displace the plants.

Of course you should select a spot for the bed which is sheltered as much as possible on the north and west by some building or high board fence. The sash should slope gently towards the south or east, both in order to carry off the rain water readily and to catch the sun's rays and gain light and warmth.

The most common sashes are 3x6 feet. The frame should therefore, be made six feet wide and as long as necessary to accommodate the number of sashes to be used.

A vital point always to be observed in making a hot bed is to spread the manure down while hot, it then continues to heat, but if spread down cold it will heat very slowly and unevenly or perhaps not at all.

Early in spring, when considerable cold weather may yet be expected it will be necessary to use about a common wagon box full of manure to each sash, but later in the season, when forming beds in which to transplant seedlings, one-half that quantity will suffice.

The soil to be used should be prepared in advance. It must be light, loose and rich.

Good sods placed in a heap with alternate layers of cow manure and allowed to stand and decay for about one year, makes a fine compost for starting a hot bed. In removing the soil from an old hot bed, shovel out some of the fermented manure with it each year, this will keep it loose and in good mechanical condition. The poorest article I ever saw used in a hot bed was sand washed from the road, which it was thought, would be rich and nice, but it packed down so hard that the whole bed was a failure.

Soil should be placed on the manure to the depth of from four to six inches, and the glasses adjusted properly. After the soil becomes warm sow the seed in rows about four inches apart and scatter them quite thickly in the rows. Never sow broadcast, as the labor of keeping free from weeds is much greater. When the seedlings are about three inches high, they should be transplanted into rows, say 3x6 inches, and as soon as these need more room or are in danger of running up spindling transplant again:



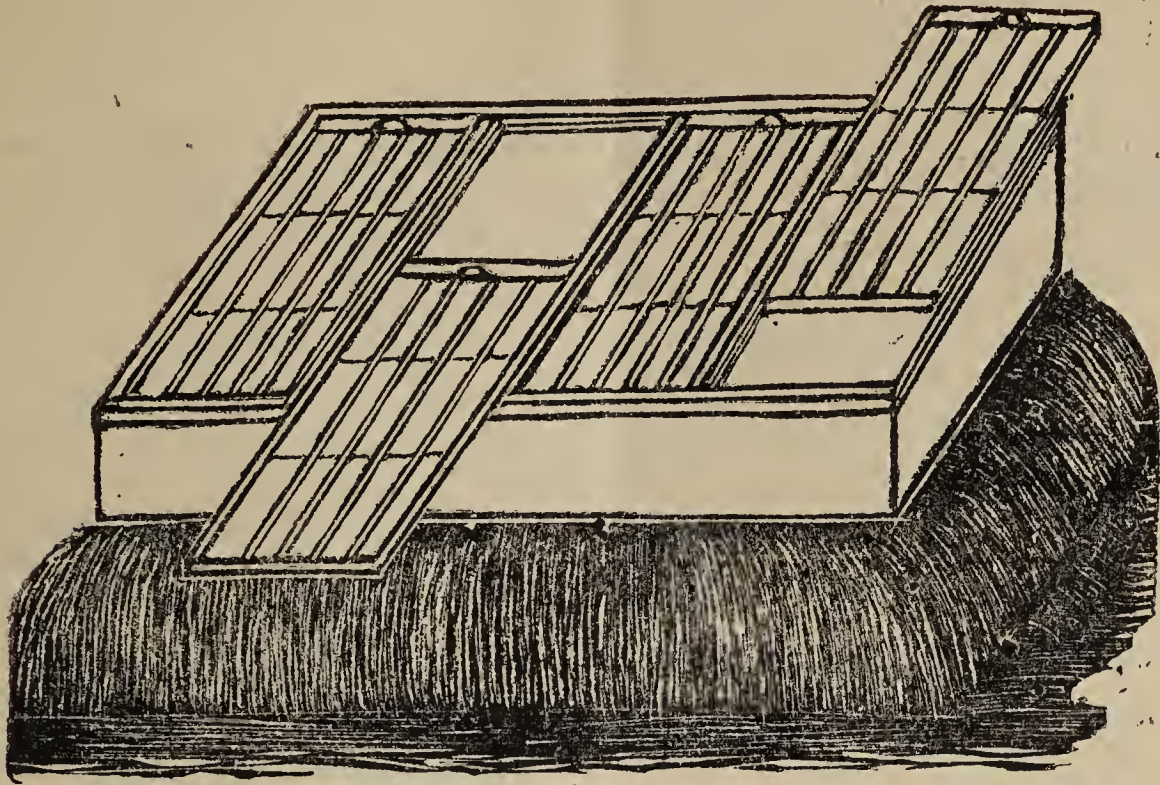


Figure 2.

In transplanting tomato plants, the stem should be set down well into the soil, and will take root wherever covered. The object sought is plenty of fibrous roots on a short stocky stem

The temperature of the beds must be closely watched though it may vary considerable. The mercury may run from  $50^{\circ}$  to  $80^{\circ}$  though the mean,  $65^{\circ}$ , should be as closely kept as possible. This for tomatoes, peppers &c. Cabbage and cauliflower plants require much less heat and should never be placed in the same bed with tomatoes. In fact very little or no bottom heat is required to produce good early cabbage plants. Fit a frame as for a hot bed except to omit the manure for the bottom heat; cover it with sash and sow the seed in February, or early in March, and better plants will usually result than if bottom heat is used.

#### FIRE HOT BEDS.

In sections where horse manure is scarce and valuable, and coal or wood cheap, a Fire Hot Bed may be made and run at much less expense than with manure. These are now much used in preference to manure, and give the best of satisfaction. The "Manual of Vegetable Plants" (advertised elsewhere) gives directions for constructing Fire Hot Beds, but we have made some changes in our manner of constructing them since that work was published. The wooden floor made as described in that work will not last more than two or three years before it will decay, so as to necessitate rebuilding. We find a better plan is to dig the trench as there described, say 2 feet deep,

six feet wide and as long as you wish your bed. With a rise of ten or fifteen feet to insure good draught it may be seventy five feet long.

Fig. 3 shows a perspective view of a Fire Hot Bed. The furnace (Fig. 4,) is covered by a small house which may be dispensed with if preferred though it makes a very handy tool house and a good place in which to do the transplanting when boxes or flats are used. Above the furnace house in Fig. 3 is shown a sectional or end view of the pit and bed. A, represents the space in which the plants are to grow. B, is the soil which should be at least eight inches in depth. The pit should be dug deepest at the middle, and a small drain formed in it and covered with small stones. This is shown at F. Above this, E, is a layer of spent tan bark or saw dust, which acts as a non conductor and keeps the bed much warmer than when the cold ground comes in direct contact with the warm air space. The space at D, is occupied by a direct flue, constructed of terra-cotta pipe, brick, or even stones and cement, running from the furnace to the chimney at the other end, through which the smoke and draught passes.

We now build some cross walls of stone or bricks, on the same foundation on which the the main flue rests, but built up several inches higher or to the top of the space C. These are shown at A, A, in Fig. 5. This allows the heated air which escapes from the direct flue to circulate to the sides of the bed. After a coal fire is well started if the main flue can be closed and the draught all thrown into these crooked flues the heat will be more evenly spread. This



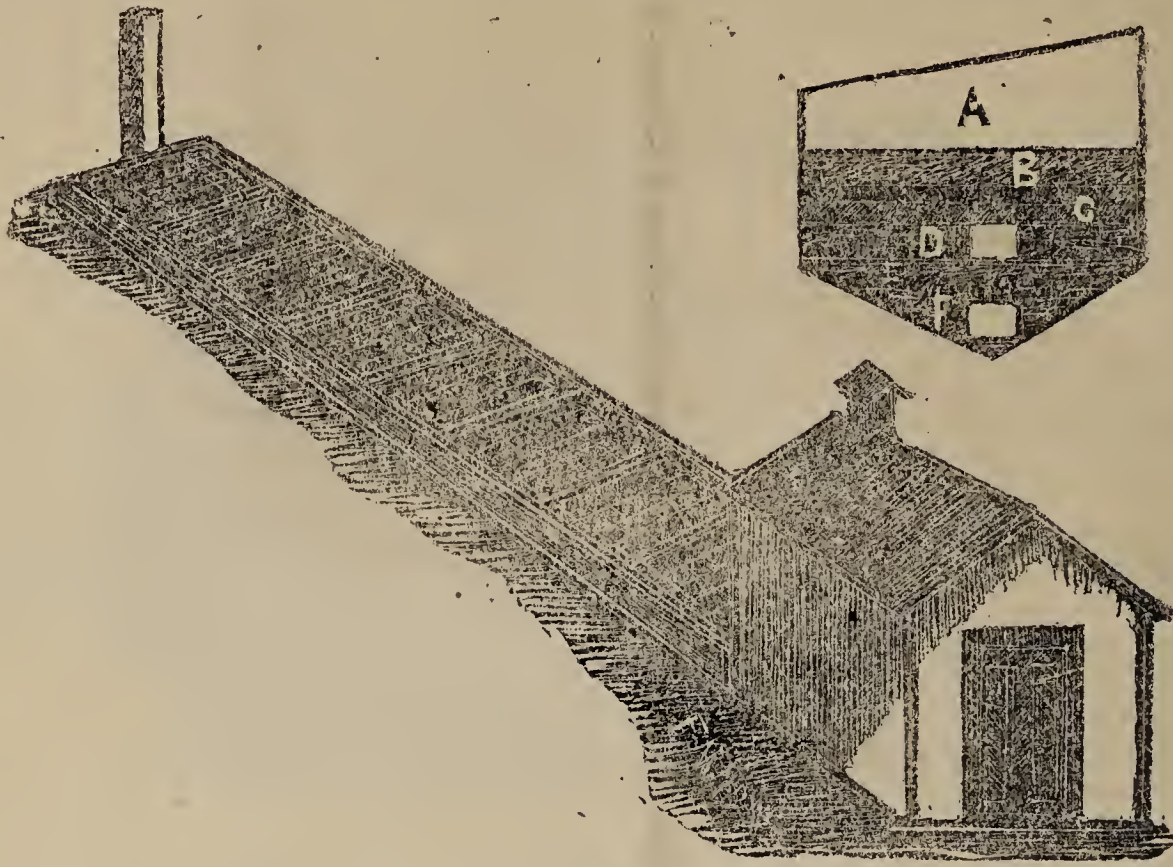


Figure 3.

whole section, Fig. 5, is next covered with flat stones, and the cracks filled with mortar or cement, on which the soil, B, rests. The main flue is not shown as it should be in Fig. 5, but it is to run directly through or under the walls A, A, from furnace to chimney. When finished in this manner you have a solid bed which will not rot out, and need not be disturbed for years.

We have never had to get up nights to fix the fire even in the coldest weather. In very severe or windy evenings we keep up a hotter fire than usual for an hour or two, shut the sashes close and obtain sufficient heat to carry it safely through the night.

Fig 4, represents the simplest manner of constructing the furnace. It is best built of brick, though if smooth even stones are at hand and brick not attainable, the stones might be made to answer. The height of the furnace is about two feet, ten inches of this being below the grate bars for an ash pit, and fourteen inches above for the fire place. The width is twelve inches. The grate bars are each cast separately, and are each about thirty inches long, which forms the depth of the furnace from front to rear. Eight of these bars are required, each occupying a space of one and a half inches. They may be obtained at any foundry. Immediately back of the furnace there should be a rise of six inches to prevent ashes and cinders from being drawn up into the flues. The chimney may be made of four one inch boards each ten or twelve inches wide nailed together in the form of a square box.

The height will depend upon the number of feet or rise in the bed and strength of the draught. These minor items can only be ascertained by trial. The whole plan may be changed in detail to suit circumstances. In every instance in which I have known of their construction they have worked better than was anticipated by the builders.

In Fig. 4, the furnace is shown with no door or covering on the top. A suitable door and frame may readily be found belonging to some cast off oven or cooking stove. This should be on hand before laying the brick so that bearings or hangings for it may be laid in the wall.

The top may be covered with a piece of sheet or plate iron, and that with a bed of soil, but as warm water will be continually needed for watering the plants it will be well to place a large pan or kettle such as maple sugar makers use, over the furnace and keep it filled with water.

Straw mats or shutters may be used on these fire beds the same as on manure beds, but as the heat may be regulated at will their use is not essential.

These fire beds are also well adapted for the business of sprouting sweet potatoes, and finely rooted slips or plants may be produced in them. I think it requires a little more time to develop a plant of a given size than a manure bed, as the soil does not become so warm. But the plants grow slowly, are shorter and more stocky,



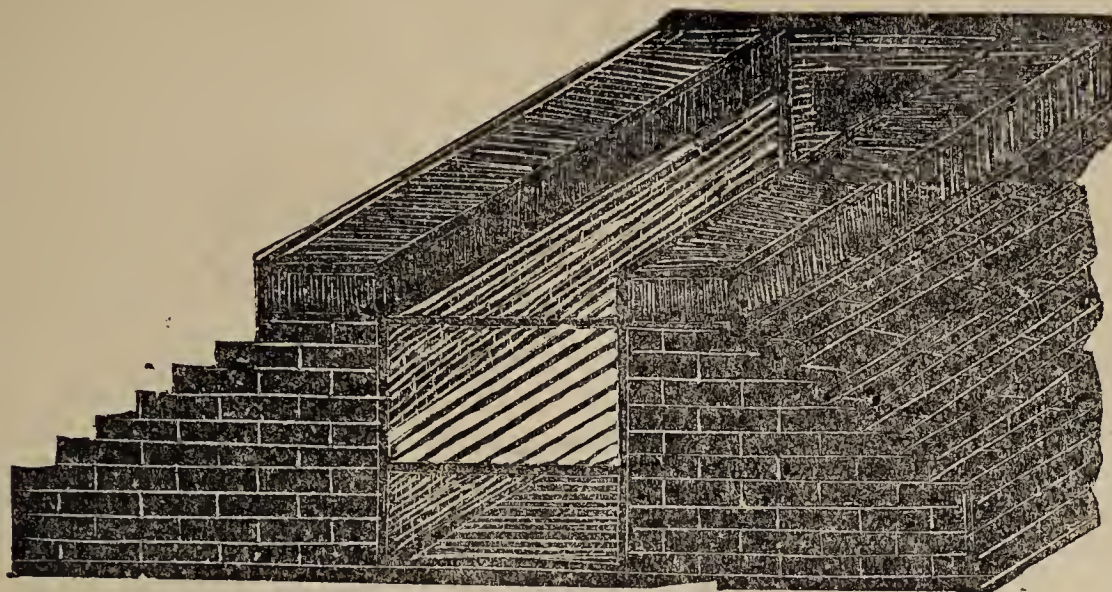


Figure 4.

hardier and better adapted to planting out.

One ton of pea coal, costing here \$1.60 will furnish fuel sufficient to run a bed of 25 sashes for two or three months, while the horse manure required for the same sized bed would cost not less than \$25. and would be hard to purchase at that.

Good sash, glazed and ready for use, will cost from \$2.25 to \$ 2.75 each. There should be no cross bars protruding above the face of the glass, but each pane lap a half inch or so on the pane below it so that the rain water will run off readily. Thus many pieces of glass and broken panes may be worked in to advantage, making the cost less and diminishing the risk of breakage.

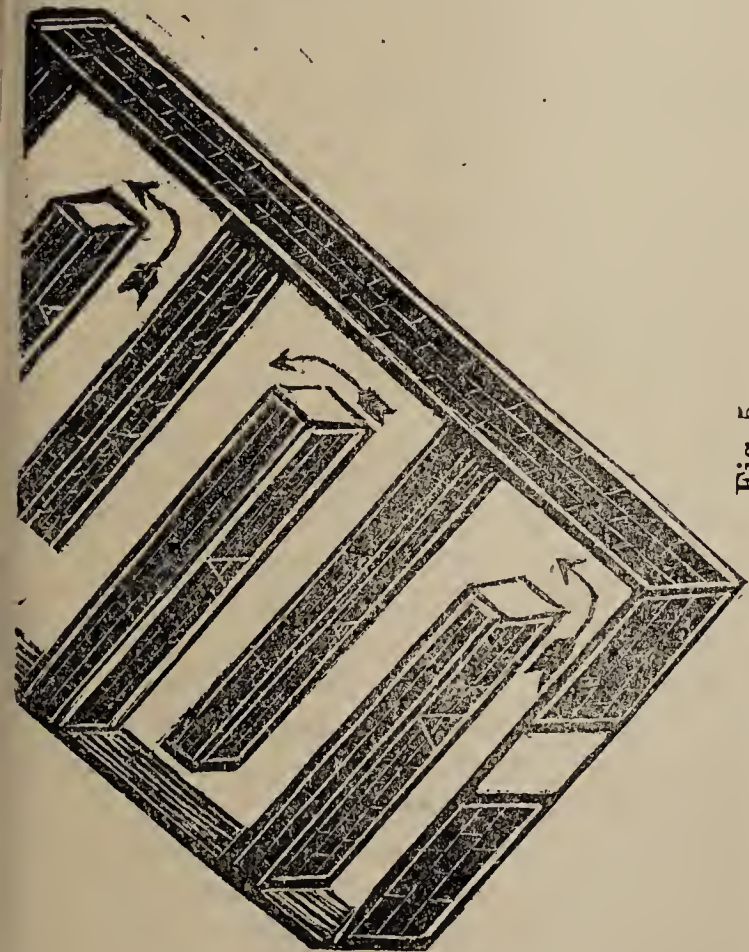


Fig. 5.

In all the above plans it is quite necessary that the bed be on ground that has a number of feet of rise in order to carry the pipes up, and thus insure a good draught. If a flue be carried for a long distance on a level or with but a few inches of rise, the current of air becomes so cool by the time it reaches the chimney that it will not move the column of cold air in it, and a difficulty will be experienced in starting the fire. In case it is necessary to construct a bed upon level ground, probably no better arrangement can be found than one which we find in the American Agriculturist which was applied to heating Greenhouses by Mr. Wm. K. Harris, of Philadelphia. We think it will be adapted to heating Fire Hot Beds, as well as Greenhouses. The furnace is built at one side of the middle of the bed, as shown in figure 6. The bars for the grate are 40 inches long, and enough of them to make a width or grate of 18 inches.

The sides of the furnace are built of fire brick to a height of 15 or 18 inches, over which is thrown an arch or a plate of iron. From the neck of this furnace proceeds two flues, one turning to the right and the other to the left. These are built of brick so as to form a flue of 8 inches square inside. At a distance of 25 feet from the furnace they may be made of terra cotta or drain pipe. These flues should be raised from the ground so as to keep them from damp, and that the radiation of heat may be obtained from all sides. This house or bed is one hundred feet long, so each flue forms a length of about one hundred feet and should rise at least one foot in its length, so as to enter the chimney directly over the furnace, and a foot higher than when it started out. This method of placing the chimney on the furnace is the key to the whole improvement. The continued heat given out from the furnace is sufficient to drive



back the cold or outer air that would necessarily force its way down the chimney before the heated air running through the length of the flue could get around.

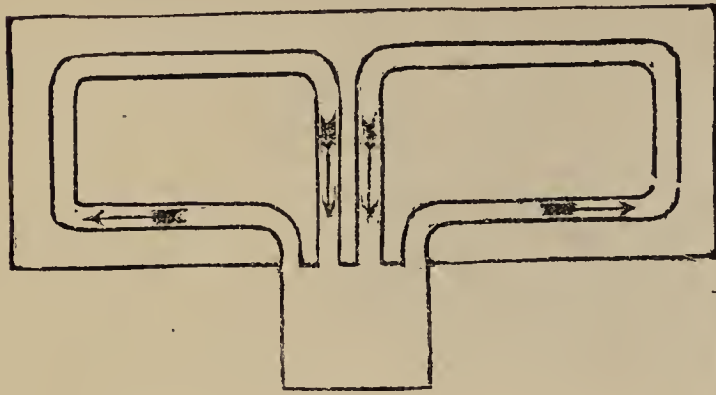


Figure 6.

### A CHAT WITH MY PATRONS AND CORRESPONDENTS.

One of the main objects in publishing this sheet, is that I may become better acquainted with my patrons. That through the medium of its pages a familiarity may spring up between us, that without its aid would be impossible. I therefore, wish to be allowed to drop the impersonal *we* in this department, and talk as freely as I would to a friend in person, without seeming egotistical.

I am continually receiving letters from my friends and patrons, which require answers which it is frequently impossible for me to give owing to lack of time. The same query is often propounded by different parties, and an answer to one will be of interest to many. Therefore, I wish all my patrons to receive SEED-TIME AND HARVEST, regularly, and of course wish all subscribers to become patrons. I have made the terms so liberal that all may do so.

There is probably no other business in which a man can engage, that requires the confidence of its patrons to a greater degree in order to make it a success, than the production and sale of seeds. A man may open a store and stock it with dry goods and groceries; if customers do not come the goods may lay upon the shelves for months or years without diminishing in value, and the patrons can readily judge for themselves whether the articles offered for sale are worth the price asked or not. But it is not so with the seed business. A pound of old, mixed, impure, or wholly worthless seeds may appear just as valuable as the same quantity of the

purest strains. Therefore, it behooves the purchaser to exercise the utmost care in deciding of whom to purchase his supply, as the amount paid for a quantity of seeds is but a tithe of the loss or damage in case they prove unreliable. I have selected the seed business as a life-work and give it my personal supervision. I am young in years and in business, this being the first real undertaking of my existence. It is my earnest wish, and highest earthly aim that it shall be in every particular a successful business. I would much rather keep every customer I have, though I make but a penny a year in my business relations with him, than to make a dollar and lose him. Remember, friends, my business is one that requires patronage, and your patronage is desired, and solicited. My goods must be sold while they are salable whether any thing is made on them or not. Some of my customers seem to think that it is almost an unpardonable transgression for them to bother me with an order for seeds, especially if they are so situated that they might have got them nearer home!

I recently received a small order from a lady in a western town, to whom I had sent my catalogue regularly for some years, who actually made a handsome apology for sending to me and troubling me to send her by mail a small list of seeds for which she inclosed an amount of cash more than sufficient to pay me the catalogue price for the same! She "might have got them nearer home," the letter said, but had "delayed until they were all sold, and must now trouble me for them!" Indeed! Isn't this a case of "loves labor lost?" Did she suppose I was sending her my catalogue merely to show her what a nice business I was doing at home, and what nice things she might purchase if she were only here! Little does it matter whether you live one mile or three thousand miles from La Plume, if I have anything on my lists that you, reader, would like to possess, and if the price is not more than you would be willing to give, to have the article delivered free of all expenses at your very door, I will thank you to favor me with the order whether it amounts to ten cents or ten dollars, and you need not apologize for troubling me either. It is a real pleasure to me to receive a letter which shows that the writer is pleased after having made a purchase of me.

I find that people do not always order blindly, but have a reason for sending their orders where ever they do send them. The following order explains this feeling:



Monroe Co., N. Y.

April 10,

Dear Sir:—Being fully satisfied, after a trial of two or three years of your Garden Seed, and that it is not safe to trade houses when you are confident you have the best, I inclose you an order for myself and one or two neighbors:

Very Respectfully

Geo. Emerson.

This is quite suggestive, coming as it does from a county which claims to send out more seeds than any other in the Union, and the faith expressed in it is such as I would like to be permitted to instil into the bosom of every one who gives this page a reading.

Owosso Mich. Aug. 9, 1880.

I. F. Tillinghast.

Dear sir:—I Suppose you understand the cabbage business pretty well and also claim to have some very nice seed. Now I'll tell you what I want. I want the seed to a variety of cabbage that will winter out well in cold frames; perhaps you would suggest more than one variety for that purpose, then I shall want some good varieties for selling plants in spring, and also for heads in summer, fall and winter. I supply the town with milk and raise cabbages for a two fold purpose, namely, to make what I can in sales, and balance for feed for milch cows in fall and winter. Have you any experience in wintering out lettuce; If so what varieties do you succeed the best with? Send me the price of your seed.

Yours Respectfully,

James L. Wright.

Answer:—I have experimented with dozens of different varieties of cabbage, and think those named in my seed-list possess more desirable qualities than any others. The first five there named are all suitable for wintering over, and the Foters Drumhead and Premium Flat Dutch are standards for later use. Lettuce is seldom "wintered over," but that sown under glass in the fall is usually marketed by February so that the space may be occupied by other plants.

For early out-door setting the Boston Market and Black Seeded Tennisball are the varieties most frequently used for forcing under glass.

### TOMATOES AND ASPARAGUS.

Dear sir:—I want to get all the information I can on the cultivation of Tomatoes. Does your Manual of Vegetable Plants, treat much on the tomato?

Would Asparagus be any earlier if I dig trenches, say 8 ft. wide and 6 ft. deep running E. & W. (well drained) and plant asparagus in the bottom without any covering or artificial heat?

Yours Very Truly,

T. Chapman,

Manson, N. C.

Answer:—My Manual of Vegetable Plants, does not treat on tomatoes, although it does upon nearly every other important vegetable. We sow our tomato seed early in March, quite thickly in drills four inches apart, in a hot bed, (full information for making hot beds will be found in another part of this magazine.) To produce good stocky plants it is necessary to transplant them two or three times, each time give them more room to grow thick and stocky, and produce an abundance of fibrous roots.

Tomatoes do not require very rich land, but should be placed in an early, warm, sheltered position and manured a little in the hill. This will give the vines a good start when young and as soon as the roots grow through into the poorer soil the vines will cease to grow so rank and ripen early. We do not stake them up but hill them pretty high and let them run.

I doubt whether the trench alone would make Asparagus enough earlier to pay; but if it could be covered with hotbed sash for a few weeks it could undoubtedly be readily forced out of season.

Blue Ridge Springs, Va., Nov. 5th 1880.

I. F. Tillinghast,

La Plume P.O.

Dear sir:—"Seed-Time and Harvest" for Oct. is just to hand, and I notice you club it with Home and Farm, and Farm and Fireside, I also notice a heavy advance on some of your seed from last years Catalogue. Cabbage seed for which I paid you \$2. last season I must now pay \$3.00 per pound or get my seed elsewhere, which I would greatly regret to do as they certainly gave perfect satisfaction. I will give you a remittance now of three dollars, if you will send me your publications, Book on plants, Seed-Time and Harvest, and the two papers, Farm and Fireside, and Home and Farm. At your present price for cabbage seed this will allow you \$1.00 over last years prices. And if you will send me a few specimen copies of Seed-Time and Harvest will do what I can without further charge. As to your seeds there is but one other House in the United States, that can equal them.



I last season planted 4,000 cabbage plants produced from your seed, and I do hereby certify that out of that number there were not more than 25 plants that did not make a marketable head.

I also would like to plant other seeds from your House, next Spring, I want a pound or so of cabbage seed now.

V. M. St. Clair,  
Blue Ridge Springs,  
Botetourt Co., Va.

Answer:—Thank you for the cheering report, but my friend I beg to assure you that I have figured closely in issuing this list and cannot accept, or make any special offer to any one lower than those given.

I have been compelled to advance the price of Premium Flat Dutch Cabbage one dollar per pound on account of the very short crop harvested this season, which will no doubt affect the quotations in other lists when issued. While you complain of this you do not seem to notice that I have reduced the price on several other varieties of cabbage. Henderson's Early Summer, which was last Spring worth \$7.00 per pound I now quote at five dollars.

It is my aim to offer seeds which are in quality above suspicion at as low a price as they can be bought at elsewhere in the Union. I do not fully understand the offer you make. You are at liberty to accept any of my special offers, but whatever seeds you wish by weight additional, must be added at the price quoted. I shall hope to receive your continued patronage, and will strive to give the same satisfaction in the future as in the past.

ONIONS AND CANARY BIRDS.

Lombardy, Mc Duffer Co., Ga.

Oct. 18, 1880.

Dear sir:—

Will your black onion seed produce bulbs the first season in the south? Please give me instructions on the management of canary birds, if that may come within the scope of Seed-Time and Harvest.

Respectfully Yours,—T. M. D.

Answer:—I have many patrons even as far south as Texas, who plant my onion seed and obtain good crops the same season. To do it I think it is necessary to plant seeds which are grown as far north as Pennsylvania. I am preparing an article upon onion culture for our April number and will be thankful for any notes concerning the experience of my southern friends on this subject.

The canary bird was first found a native of the Canary Islands, from whence it was brought to Europe in the 16th century and made a household pet. It is a small singing bird of the finch family, and perhaps no other pet has found so warm a place in the hearts of all classes of civilized humanity.

A ship having many canary birds on board was wrecked near the Isle of Elba, on the coast of Italy. The mild climate was so congenial to them that they increased rapidly, and would have naturalized themselves in their new home had not their fine melody caused them to be hunted by the natives, until no wild birds were left on Elba's Rocky-Isle.

The music loving Italians, were the first to tame and breed the little songster whose music touched a responsive chord in their hearts. The canary next found a place in the kingdom of Hanover, a part of Germany, where the peasants make their chief means of subsistence by their breeding.

The Hartz Mountains, is the great breeding mart of the world, and the most of the 40,000 birds imported into the United States, are furnished from this locality.

The male is the singing bird; The female scarcely ever sings.

A bird well taken care of will continue in song twelve or fifteen years. Much has been written, and many rules given, for taking care of canaries, which only go to show the ignorance and error of the writer. Breeding and rearing canaries is at this time a rapidly increasing industry in this country, and well adapted to the aged and the invalid.

A good singer is worth as much as a good turkey, and will out sell it in most large cities and towns of the United States.

In breeding and rearing, the rules most to be observed are, first, cleanliness, second even temperature, third, good pure water, once per day, fourth, freedom from vermin 5th give sand and gravel. They will thrive on many kinds of seeds, and when ground nearly all cereals that mankind eat. One pint of seed will last a single bird six weeks. Canary seed is much used as food. Cuttle bone supplies the place of sand and gravel.

\$80. to \$100. worth of birds have been raised and sold from a single pair of birds in one season, without interfering with the regular hours of labor, by factory operatives, miners and needle women.

There are large bird dealers and importers in New York and Philadelphia, but they can and should be raised in the United States, as well as in Germany.

Books teaching you how to breed and rear canaries can be had at most bookstores experience, however, is the best teacher "If at first you dont succeed try again.



## Some New Vegetables.



### The La Plume Triumph Potato.

The above cut is a most accurate and truthful representation of this most promising variety engraved from a photograph, which was taken from an average sized specimen. I have now grown this variety for three years, and have been more and more pleased with it each year. Grown by the side of the Late Rose, and Burbank, as a field variety, it produced 20 per cent. more than either of those justly celebrated varieties, with exactly the same care and cultivation, and they would readily bring about 10 cents more per bushel than either of these in our markets. It has been carefully tested by a number of experienced growers in various parts of the country, and all unite in pronouncing it a decided acquisition.

In color and general appearance, it somewhat resembles a well grown specimen of the once popular Garnet Chili, perhaps a little more flattened and the eyes rather more prominent. It ripens in August, or early in September, produces few tubers too small to be marketable and in

quality is equal to the best. The vines are large and thrifty, and the tubers well formed in the hill. Its keeping qualities are excellent. To sum up it is a good healthy vigorous, market or table variety, bound to go beyond its recommendation, and please every one who plants it. In order that all lovers of a good potato may add to their collections we have put the price as low as the the stock on hand will possibly warrant. Unlike many varieties which have gone "up like a rocket and down like a stone," this is "better liked when better known" and is likely to advance rather than diminish in price for several years to come.

In cooking qualities this variety would be classed with the Peachblows, having the same rich, dry, mealy habit so well known in that old favorite. It is however much earlier than the Peachblows and grows more compactly in the hill. The roots never spread and produce tubers out of the hills as the Peachblows are wont to do.

Per pound postpaid by mail, 50 cents; per peck, by express or otherwise, 75 cts. per bushel, \$2.50; per barrel, \$7.00.





*La Plume Chestnut Celery.*

This is a magnificent new half dwarf white Celery, having uncommonly large and solid leaf stalks which possess a peculiar chestnut flavor which is greatly admired by all lovers of good celery. It is a very vigorous and rapid grower, the young plants, even, looking much stouter and stockier than others when in the same bed. Like the "Lackawanna Cauliflower" this variety claims to have been produced on the principle of the "survival of the fittest," the very best and handsomest plants from several of our best large and dwarf growing varieties having been selected for seed, then the fittest of the product again selected, so as to combine the good qualities of all, and this kept up for a series of years until a type has been established which reproduces itself with considerable certainty.

It can only be offered in packets and ounces at present. Price per pkt., 20 cts. Ounce 50 cts.



*The Lackawanna Cauliflower.*

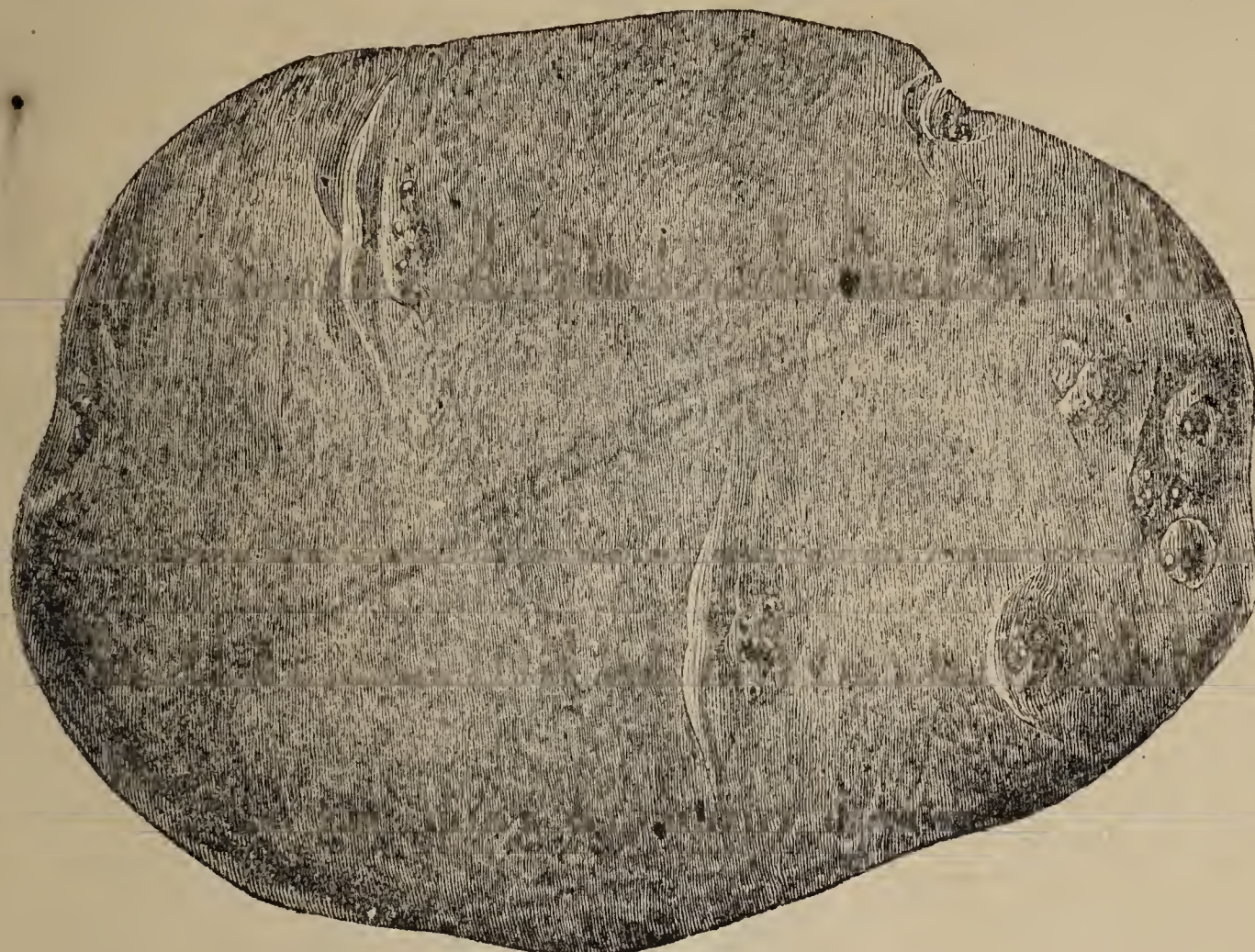
This is a very fine, new, early, large heading variety, which originated a few years since with a gentleman in one of our seaport towns where the growing of cauliflower for market is carried on extensively. It was produced by the plan of "the survival of the fittest" i.e. by annually selecting the earliest and best formed heads from several of the best varieties, and saving them for seed. Thus by long continued selection this variety has become fixed in type so that it now reproduces itself with considerable certainty. It grows to a good size, is beautiful in form and color, and is one of the most certain to head up evenly, scarcely a plant failing if given a chance. The seeds being limited, it can only be offered in packets, which in order to give all a chance to try, are put at the low price of 30 cts. per packet.



*Surprise Muskmelon.*

The New Surprise Melon has a thin, cream colored skin thickly netted. The flesh is of a deep salmon color and very thick. The shape of the melon is round, resembling the nutmeg. It is early and prolific, and is pronounced by all who taste it to be one of the finest flavored melons ever offered to the public. Per pkt. 10c. oz. 30c.





### The "Belle" Potato.

During the past ten years I have planted and tested several hundred different varieties of potatoes including all the promising new varieties which have been offered by the leading seedsmen, and many which have been forwarded to me for trial by my friends and patrons in various sections of the Union. Recognizing the fact that there are already too many varieties of only ordinary merit before the public, I have been slow to introduce any new ones to notice, wishing to be certain that I have a variety possessing very superior qualities before making it public.

I now call attention to the BELLE as coming nearer perfection, all points considered, than any variety ever yet introduced. I know this is a strong claim but believe the real merits of this variety entitle it to nothing less. It is of the best possible color, in my judgement, viz. a light red with skin slightly netted or covered with russet. It is very smooth and beautiful in form and proportions, with eyes but slightly depressed. In size it is extra large and yet is solid, never hollow or prongy. It is unsurpassable in cooking qualities, fairly eclipsing

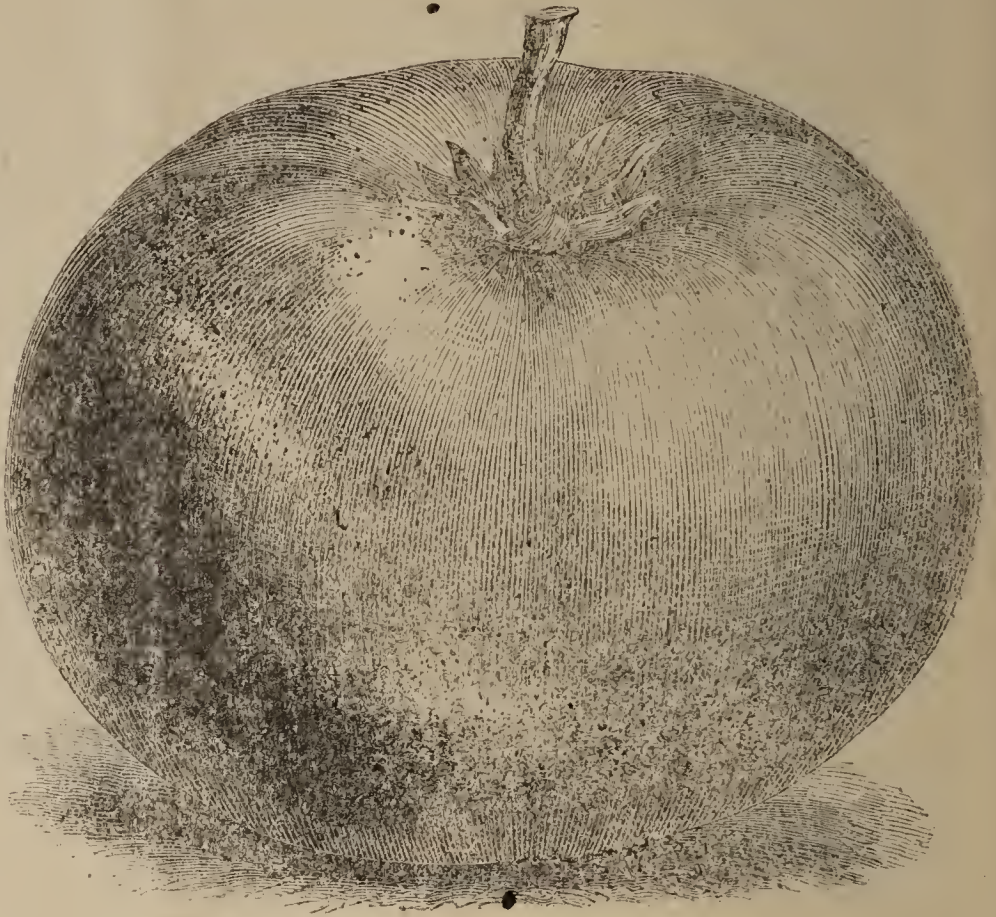
the old Peachblow in its palmyest days, and in yielding properties it is simply immense. While large potatoes are really no more desirable in themselves than medium sized ones for table use, it is well known that in order to produce a great yield it is necessary to dig large tubers. A bushel of the "Belle" consisting of 48 tubers weighing 60 lbs. all fair and smooth, attracted a great deal of attention at the late Penn. State Fair at Philadelphia. Many good judges to whom this variety has been submitted for trial have pronounced its cooking qualities simply superb, really unapproachable by any variety ever yet introduced which will nearly equal it in size and yield. Believing that, all things considered, this variety has combined within it more good qualities and fewer faults than any other one yet known I have decided to offer it at a reasonable price in order that it may be quickly disseminated. As the stock is very limited it will probably not be offered at lower rates than these for several years to come.

Price, per pound postpaid by mail, 75 cts; per peck, by express or otherwise, \$1.25; per bushel, \$4.50; per barrel \$10.00.



*Essex Hybrid Tomato.*

Farmers and Market Gardeners, who want a good Tomato that always grows smooth and handsome should try the Essex Hybrid. The flesh being very hard and solid makes it one of the best Tomatoes for marketing or shipping, as it will keep a considerable time after ripening without rotting. It is very productive and a vigorous grower; fruits very evenly on the vines without any rough fruit, hardly ever bearing any fruit which is not fit for market. Per pkt. 15 cts.; per oz. 60 cts.

*Pure German Millet.*

The farmers and stock breeders of this country have long been on the lookout for the "best forage plant" something to fall back upon in an emergency when the hay crop is likely to fail. For this purpose I believe nothing has as yet been found which will compare with Pure German Millet. It will grow in almost any climate, in wet or dry, rich or poor land; never falls down; ripens gradually which gives ample time to harvest it; can be cut with a mower and stacked as hay, or with a reaper and bound as wheat or oats; will yield from two to four tons of good hay, and 40 to 75 bushels of seed to the acre; and requires about 60 days to perfect a crop. It will grow from four to nine feet high; a blade resembling that of young corn comes out alternately about every five inches on the stalk. When well matured the stalks are soft and will be readily eaten by all kinds of stock. The seeds are no less valuable than the hay, as they are readily consumed by Horses, Sheep and Fowls. Two to three pecks of seed is required per acre. I believe the "Pearl Millet which has been pushed so extensively is not to be compared with this in actual value. Price per pkt. 10 cts.; pint 30 cts. quart, 60 cts., postpaid. Per peck by express or freight, \$1.50.

*Saint Paul Tomato.*

A new variety of Minnesota origin which is sufficient guarantee of its extreme earliness. It is perfectly smooth and of good form, very solid and firm, thus making a good shipping fruit. Its uniform large size, solidity and fine flavor will keep it in the front rank as a table or canning tomato. It cans 12 lbs. to the bushel more than the Trophy. Color cherry red. Per pkt. 15 cts.; oz 60 cts.

*North Star Yellow Dent Corn.*

A perfectly pure yellow dent, the handsomest corn we ever saw, and the earliest Dent corn we know of. Our stock was grown in Northern Minnesota; and our grower there says: "Another years trial places it at the head of the list for earliness and productiveness. It is positively the best field corn for planting in any latitude. Per pkt. 10 cts.; pint 40 cts., postpaid. By express, per quart, 20 cts; peck \$1.50.

*Squaw Corn.*

This is probably the earliest variety in existence. It will ripen in Manitoba. Per pkt. 10c per pint 40 cts., postpaid.





*Essex Hybrid Squash.*

This is a new and very excellent Squash, introduced to the public for the first time in spring of 1880. It resulted from a cross between the Hubbard and American Turban, having the color, shape and superior qualities of the Turban, with the dryness, hard shell and good keeping qualities of the Hubbard. It is not only one of the richest flavored, finest grained and sweetest of all the squash family, but one of the very best keepers we have, specimens of last year keeping until the middle of June, as sound as when gathered in the fall. The flesh is very thick, rich colored and solid, having an extremely small cavity for seeds, thus making them much heavier than any other variety of the same size. It is also one of the most productive squashes ever introduced, yielding even better than the marrow, often growing in pairs on the same vine, within the space of two feet. It also has the merits of maturing very early, and may be planted as a second crop following Early Peas, Potatoes and Cabbages. A piece planted on the 3d of July in just two months from the day of planting had squashes weighing 12 pounds.

Price per pkt. 15 cts.; per ounce 30 cts.

*Black Seeded Simpson Lettuce.*

This was offered for the first time last season and only the most satisfactory reports are received in regard to it. It differs from the ordinary Curled Simpson in being much lighter colored, the leaves being almost white; stands the summer heat better, and attains a size nearly double that popular variety; Per pkt., 15 cts.; oz., 40 cts.

*Mammoth Russian Sunflower.*

The Mammoth Russian Sunflower is the largest, best and most productive variety. The flowers measure from one foot to one and a half feet in diameter, and a single flower will produce an immense quantity of seed. A flower exhibited at the Centennial measured twenty-two inches in diameter. The seed is highly valuable for stock feeding. It is THE BEST EGG PRODUCER KNOWN for poultry, keeping them in fine condition, and largely increasing the production of eggs. It can be raised at a very low price per bushel. It is highly recommended to every farmer and poultry breeder. It can be sown any time up to the middle of July. The leaves furnish capital fodder for cows, and the stalks will pay for feed in localities where that is scarce.

Per pkt. 10 cts.; pint 40 cts. postpaid.

*Amber Cream Sweet Corn.*

This was introduced last spring as a valuable addition to our medium early sorts, and such it has proven itself to be after having been grown in many different sections of the country. The stalks are strong and vigorous, growing from seven to eight feet high. The ears are set well up from the ground, and have from twelve to sixteen rows on each. Color when fit for table, white and handsome and of very superior quality. The size of the ears is large, averaging ten to fourteen inches in length. When dry they are of a dark amber color and very much shrivelled. From a plot containing 144 hills there was harvested, last season, eleven hundred and twenty ears, averaging over ten inches in length.

Per pkt., 15 cts. per pint 50 cts., postpaid.

*Winona Dwarf White Marrow Peas.*

This a large and handsome new marrow Pea, having the prolificness of the Marrow class, but growing only 18 inches in height. It produces a great abundance of well filled pods of excellent quality, and we predict will be in great demand when better known. Per pkt., 15 cts. pint 50 cts. postpaid.

*Kentucky Wonder Pole Bean.*

This is a new variety which I have grown for three years and I think it deserves a place in every garden. It is the most productive Pole Bean I ever saw, the poles being fairly loaded with very long pods which make a beautiful appearance hanging in great clusters. Give it a trial. Packet 20 cts.



**Early Minn. Amber Sugar Cane.**

The above variety, largely tested in Minnesota for several years past, will, from reports received, before long prove of great value to our northern states. Its saccharine qualities are A No. 1, we have ourselves eaten sugar manufactured from this cane, and can, therefore, speak intelligently. The seed is very nutritious and liked by all kinds of stock; some also being of the opinion that it will increase egg production in poultry. It is a strong grower, the stalks averaging 10 to 12 feet high, standing well; consequently, is not easily blown down. When planted in Minnesota, from 1st to 10th of May, it almost invariably ripens, thus giving if properly handled a double crop, namely, 20 bushels or more of seed, together with 150 gallon of syrup per acre.

The Country Gentleman for Nov, 18, 1880, contains the following from a correspondent, S. H. C. Norfolk, Conn. Last year I had 15 bushels of ears of corn from 14½ rods of ground and this year I planted the same piece to Amber Cane. I had 273 gallons of the crude juice and 40½ gallons of No. 1 syrup. I have a Victor cane mill, for extracting the juice, and a Russia sheet iron pan to boil it in. The syrup sells readily for 70 cents a gallon. The first thirty gallons of juice made 3½ gallons of syrup, Oct. 9th. The last 23 gallons of juice made four gallons of syrup, Oct. 29th. The cane was ripe when I cut it."

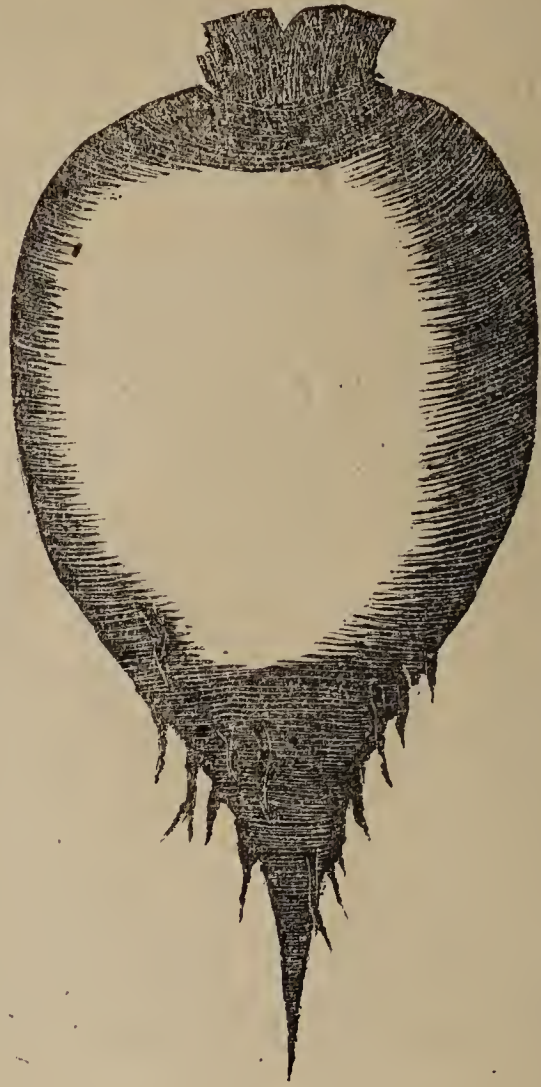
This variety grows and ripens with us as readily as common corn and we have no doubt the production of syrup and sugar from it will soon form a great American industry.

Seeds of our growth have taken 1st premiums at the New York State Fair two years in succession.

Pkt. 5 cts.; ½ lb. 30 cts.; lb. 60 cts. postpaid; 5 lbs., by express, \$2.00.

**Nicollet Big Gem Pea.**

Supposed to have had its origin with the gardeners of Minneapolis, Minn. The vines are about 18 inches in height. The pods are very large and full, quality fully equal to the Champion of England. It is bound to be the leading table and market Pea of this country soon as known and disseminated. The seed is yet scarce and can only be offered in packets. Per pkt. 25c.

**New White Egg Turnip.**

An entirely distinct and new variety, that we first saw in the fall of 1877. It belongs to the class of quick growing Fall Turnips, and for this purpose should be sown in this latitude, between July 25, and August 10th. Its shape is nearly oval or egg, as its name would indicate, flesh very firm and fine grained, thin and perfectly smooth skin, and both skin and flesh are of snowy whiteness. Its flavor is of the very best, mild and sweet, making it particularly desirable for table use, while its attractive appearance is certain to make it one of the most salable Turnips that can be grown for market.

10 cts. per pkt.; 20 cts. per ounce.

**Carter's Dwarf Crimson Celery.**

It is admitted that as a rule the red or crimson varieties of celery are not only better flavored, and more crisp, but hardier and keep better during winter, than the white kinds. This is one of the best colored varieties we have ever seen, having every requisite good quality.

Pkt., 15 cts.; oz. 40 cts.





*Brills Am. Yellow Rutabaga.*

The hardest, heaviest cropping, smoothest, best Swede in cultivation. This variety thrives in all soils, grows to a large size with single tap root, is free from mildew, and for evenness of crop and keeping qualities, is unequalled. We have sold this for the last two years, and it fully sustains its remarkable qualities. Per pkt. 5cts.; oz. 10 cts. lb \$1.50.

The following shows our customer's opinion of this variety:

The Ruta Bagas raised from seed purchased from you for two years past are the finest I have ever seen. The yield this year was over 500 bushels per acre, the dryest season ever known in this section of the country; quality excellent, sweet, tender, delicious. I consider it the "Acme" of the whole Turnip family. A. C. Sisson.

*Golden Dwarf Celery.*

A very distinct variety, which originated near Newark, N. J., and which is undoubtedly of great value, as shown by the fact that, although of only very recent origin, it is already largely grown around that locality, for both the markets of Newark, and New York. In size and habit of growth it is much the same as the Half Dwarf White kinds, except that when blanched the heart, which is large and full, is a waxy, golden yellow, rendering it a most striking and showy variety, for either market or private use. It is entirely solid, and of most excellent flavor, and one of the best keepers we have ever known. Per pkt. 15 cts.; oz, 40 cts.



*Crawford's Half Dwarf Celery.*

This variety (called also Henderson's Half Dwarf in some catalogues) is now grown more extensively than any other by the Market Gardeners who supply the New York City Markets, is now the kind found on the tables of first class hotels. When blanched it is of a yellowish white, making it very ornamental for the table, is entirely solid, possessing the nutty flavor peculiar to the dwarf kinds while it has much more vigor of growth, surpassing most of the large growing sorts in weight of bunch, when grown under the same conditions.

Pkt, 5 cts.; oz., 25 cts; lb, \$4.00.

*Red River Sweet Corn.*

This is offered as the earliest good sweet corn known, being fit for table use at least a week in advance of the well know Early Minnesota. It is of good habit, very prolific and very sweet. The ears will not of course compare with the late varieties in size but are of good size considering their extreme earliness. It is worthy of a trial by all.

Per pkt., 15 cts.; pint, 50 cts postpaid.





*Fottler's Drumhead Cabbage.*

This is, in season, intermediate between the Winnigstadt and Flat Dutch. No variety within my recollection has come so rapidly in public favor as the Fottler. Wherever known, it is favorably known. Being two weeks earlier than the Late Flat Dutch it can be put out correspondingly later. If planted early it makes a profitable summer variety. It produces beautiful, large, white flat heads, frequently attaining a weight of 20 pounds each. We have greatly improved this variety since it came into our hands, and believe that it is, as we have it, the best variety, for all purposes, known. We have received many very flattering reports concerning its great value from growers in all sections of the Union.

Per pkt. 10 cts., ounce, 20 cts., lb. \$3.00.

*Cow Peas.*

These resemble beans in their growth. They are used for green feed, for hay, and for green manure crops, to be plowed under. The growth is rapid, and the weight of the haulm enormous. Two bushels of seed drilled in is the usual seeding per acre. Their use is rapidly increasing in the Northern States, especially for green manuring. On good soil, simply "run out," no manure is required. On barren land, some fertilizer is desirable, to secure a crop, though not essential. Repeated crops, plowed under, will insure a degree of fertility upon any soil. The Southern practice, of putting in the seed at the last hoeing of corn and plowing as soon as the corn is cut up is an excellent one. Per pkt. 10c. Pint, 30c. postpaid. Prices by the bushel on application.

*New Egyptian Sweet Corn.*

A comparatively new variety that has been grown near Baltimore, Md., for some time. The ears are of large size, and the flavor is peculiarly rich and sweet, and so superior to other sorts of Sweet Corn, that hotels and families using it will have no other kind as long as this variety is to be had. The introducer, who is a large grower and canner of corn, states that the superiority of this variety is so well established in his neighborhood, that the prices he receives for it both in the canned and green state, will average nearly one half more than what he can obtain for any other sort he grows.

Like all other large sorts it is late in ripening.  
Pkt., 10 cts.; pint, 30 cts., postpaid.

*Early Snowball Cauliflower.*

This is a new, very desirable early sort. Very similar to, but an improvement on, the Extra Early Dwarf Erfurt. Of ten different kinds of cauliflowers planted out the first week in April fifty plants each, the first ready was the Early Snowball, which gave heads measuring 9 inches in diameter by 10th of June. Every plant formed a fine head, and in addition to its earliness and a greater certainty to head over all other sorts, its dwarf habit and short outer leaves allows it to be planted so close that from 12,000 to 14,000 can be set out on an acre. Pk. 25 cts.



*Early Jersey Wakefield.*

This, if "TRUE," is unquestionably the best very early cabbage known, producing large and solid heads, and is marketable earlier than any other variety which makes what may really be called a head. It is the favorite with all market gardeners around New York, and, in fact, where ever tested is gaining in popularity. The seeds are sown in September, and the plants wintered over in cold frames for earliest spring use. or what answers quite as good a purpose, are sown in March in a hot-bed, from which they are shifted into a cold frame about the first of April, in this latitude, where they are kept until the weather permits their being set in the field.

Per pkt, 10 cts., ounce, 35 cts., lb. \$5.00.



☞ The best advertising medium is a pleased patron.  
 ☞ Small profits and fair dealing defy competition.  
 ☞ Old seeds do not satisfy old patrons or make new ones.

☞ In our house a guarantee means something. If our seeds do not satisfy you we will refund your order.

☞ Should you receive more than one copy of our Catalogue please have the kindness to hand those you do not need to some one who is interested.

☞ Our Flower-seed List comprises the choicest varieties to be procured at home or abroad. All packets not otherwise priced are but Five Cents each.

☞ Amounts not exceeding One Dollar may be sent in a common letter at our risk. If over one dollar Register the letter, or buy a Money Order and deduct the fee—10 cents—from the amount enclosed.

☞ In comparing our prices with those of other growers please do not overlook the fact that our quotations include the prepayment of postage. The amount we charge will bring our seeds to your door.

☞ In writing to us never fail to plainly write your full Name and Address. Don't think that because you have written to us before, our clerks can remember where you belong or who you are. Tell us every time.

☞ We accept Postage stamps when sent but continually receive more than we can use. If you will send us even dollars in currency we will return your exact change. If you must send stamps, send one-cent stamps if possible.

☞ We do not care to boast of handling more tons of commercial seeds than any other firm in the country. We much prefer to sell a limited amount of pure fresh seeds to a few hundred good customers on whom we can depend after they have learned that they can depend upon us, than to flood the country with stock that we know little or nothing about. We think it better to sell seeds which are worth all you are asked to pay for them and live on a fair profit, than to sell a cheap purchased article at a large margin and then have to expend the profits in newspaper advertising in order to drum up new customers for the future.

AGENTS WANTED.—For the purpose of introducing our seeds as extensively as possible we have made a magnificent offer, which you will see upon another page. We now want an agent in every town to show our magazine and solicit orders under this offer. If you will get four of your friends to subscribe and pay 50 cents each for the magazine and seeds, we will send you a fifth copy with seeds free for your trouble. Specimens free upon application.

☞ OUR OFFICE is now fitted up with a full supply of Presses and modern job printing materials sufficient to do all our own work and considerable job work for any of our friends who may want neatly executed price-lists, &c., at a moderate cost. We give this publication as a sample of our work and invite correspondence from any one in need of job printing of any kind. Address all orders and inquiries to

SEED-TIME AND HARVEST,  
 LA PLUME, LACK'A Co., PA.

## Seed-Time and Harvest

### Clubbing List for 1881.

FOR MANY YEARS we have taken subscriptions for the principal Journals of the United States, and especially those devoted to Agriculture and Horticulture. By taking large numbers of subscriptions we are enabled to get publishers' lowest rates, and when we are enabled to do so we give our patrons the benefit of the deduction. In such cases our prices are frequently lower than any one could possibly secure except through a large club like ours. On some papers we can give no discount as the publishers have no clubbing terms, but we put them on our list because we think they are well worth all they cost. We give below a list of standard publications for which we receive subscriptions and the price of each. We club SEED-TIME AND HARVEST with any of them for 15 Cents additional to the price in the second column.

Please see if there is anything in this List that you need, and, if so, we should be glad to receive your order.

☞ THE FIRST COLUMN gives the Publishers' price, and the *Second Column* our price. ☞

American Agriculturist, M.....	\$1 50	\$1 10
American Cultivator, W.....	2 00	1 75
American Bee Journal, W.....	2 00	1 95
American Rural Home, W.....	1 50	1 35
Atlantic Monthly.....	4 00	3 50
Coleman's Rural World, W.....	1 50	1 25
Country Gentleman, W.....	2 50	2 10
Demorest's Monthly.....	2 50	2 00
Demorest's Monthly with Premium.....	3 00	2 50
Farm Journal, M. (Philadelphia).....	50	35
Fireside Companion, W.....	3 00	2 60
Floral Cabinet, with Premium, M.....	1 30	1 25
Forest and Stream, W.....	4 00	3 50
Fruit Recorder M.....	1 00	75
Gardener's Monthly and Horticulturist.....	2 10	1 75
Harper's Magazine, M.....	4 00	3 40
Harper's Weekly, and Bazar, each.....	4 00	3 60
Harper's YOUNG PEOPLE.....		1 50
Hall's Journal of Health, M.....	1 50	1 30
Herald of Health, M.....	1 00	90
Household, (Vt.) M.....	1 10	85
Home and Farm, S. M.....	50	50
Lippincott's Magazine, M.....	3 00	2 25
New England Farmer, W.....	2 15	2 00
New York Herald, W.....	1 00	90
New York Evening Post, W.....	1 50	1 40
New York Ledger, W.....	3 00	2 50
New York Witness, W.....	1 50	1 40
New York Tribune, W.....	2 00	1 10
Park's Floral Gazette, M.....	50	50
Peterson's Magazine, M.....	2 00	1 60
Phrenological Journal, M.....	2 00	1 75
Poultry World, M.....	1 25	1 00
Prairie Farmer, W.....	2 00	1 75
Rural New Yorker W.....	2 00	1 90
Scientific American, W.....	3 20	2 90
St. Nicholas, M.....	3 00	2 75
Scribner's Monthly.....	4 00	3 60
Scientific News, M.....	1 00	85
Saturday Evening Post, W.....	2 00	1 50
Vick's Magazine, M.....	1 25	1 15
Wide Awake, M.....	2 00	1 75

ANY NEWSPAPER OR MAGAZINE Not on the above list can also be procured at *Club Rates* by applying to

SEED-TIME AND HARVEST,

LA PLUME, Lack'a Co., Pa.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**THE COUNTRY GENTLEMAN** properly stands at the head of the list of all agricultural journals for sterling merit and solid practical value. We have an uninterrupted file of some 20 volumes and would not take first cost for them today. Weekly, \$2.50 per year. L. Tucker & Son, Publishers, Albany, N. Y.

**ARTHUR'S HOME MAGAZINE**,—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**DEMAREST'S MONTHLY**, devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**PETERSON'S MAGAZINE**. Chas. J. Peterson & Co., Philadelphia, comes again with its monthly greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

**LIPPINCOTT'S MAGAZINE**. J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PRAIRIE FARMER**. A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 34 Park Row, New York.

**VICK'S MONTHLY MAGAZINE**, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

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**THE AMERICAN CULTIVATOR**, Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE FARMING WORLD**. We earnestly advise every man who reads for knowledge and works for money to at once send 80 cents for **THE FARMING WORLD**, for 1881. It is invaluable alike as a source of information and revenue, and is actually paying every dollar of this years income to its club-raisers! Office: The great Studebaker Wagon Works, South Bend, Ind.

**THE FARM JOURNAL**, 144 North Seventh St., Philadelphia Pa. Monthly; 16 pages; 50 cents per year, or only 25 cents in clubs. If you are not acquainted with this Journal don't fail to send your name for a sample copy and I venture to say you will become a subscriber. It is "Cream, not skim milk." It is the neatest as well as the cheapest farm journal extant.

**The Housekeeper**, Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**THE HERALD OF HEALTH**. Wood and Holbrook, 15 Laight St., New York. One of the oldest and best sustained health publications issued. Has an excellent corps of eminent writers who strive to elevate the mind as well as strengthen the bodies of mankind.

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**THE WEEKLY WITNESS**. John Dougal & Co., New York. Contains News of the Day, Prices Current, Financial Reports, Spirit of the New York Daily Press, Home Department, General Correspondence, also Departments for Agriculture, Temperance, Sabbath School, Religious Reading, Stories &c. It gives more reading matter than any other religious weekly.

**The Poultry Monthly**, published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

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## Isaac F. Tillinghast's

PRICE-LIST OF SELECT

VEGETABLE AND FLOWER SEEDS,

For 1881.

ANY of the following Seeds will be sent by mail or express, free of all charges, to any address in the United States, upon receipt of the prices named below, except Peas, Beans, and Corn ordered in quantities greater than pints. We think we have made our prices as low as we ought to accept for Seeds of so fine a quality as we know these to be. In comparing our prices with those of other growers please note the following points: 1st, We warrant ours to be fresh, pure and reliable, to the extent that we refill all unsatisfactory orders.

2d. Quarter pounds and in most cases single ounces are supplied at pound rates. A saving of 25 per cent. can be made here.

3d. We prepay postage and deliver free.

4th. Every person who purchases from this list to the amount of \$1., gets Seed-Time and Harvest free for one year.

Beans.	Pkt.	Pint.	Peck.
Early Feejee.....	\$0.10	\$0.30	\$1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	15	40	3.00
Ferry's Golden Wax.....	15	40	3.00
Large White Marrowfat.....	10	25	1.50

Pole Beans.	Pkt.	Pint.	Peck.
Concord.....	10	30	2.00
Kentucky Wonder (New)...	20	—	—
German Wax.....	10	30	2.00
Dreer's Improved Lima.....	15	40	—

Corn.	Pkt.	Pint.	Peck.
Amber Cream, New, (page 13)	15	50	—
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	25	1.00
Triumph.....	10	30	1.25
New Egyptian.....	10	30	1.25
Red and White Rice Pop-Corn	10	35	—
Reynolds's Improved Field .	10	25	0.75

Peas.	Pkt.	Pint.	Peck.
Philadelphia Extra Early ...	10	30	2.00
Early Kent.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
McLean's Blue Peter.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	25	1.50

Asparagus.	Pkt.	Oz.	Lb.
Conover's Colossal.....	05	8	0.75

Beets.	Pkt.	Oz.	Lb.
Early Egyptian.....	05	10	1.00
Bassano.....	05	08	.75
Dewing's Red Turnip.....	05	08	.75
Long Smooth Blood.....	05	08	.75

Mangel Wurzel Beets.	Pkt.	Oz.	Lb.
Yellow Globe.....	05	08	.65
Norbitan's Giant.....	05	08	.65
Webb's New Kinver.....	05	08	.75
Imperial Sugar.....	05	08	.65

Broccoli.	Pkt.	Oz.	Lb.
Early Purple Cape.....	10	60	—
White Cape.....	10	60	—
Walcheran.....	10	60	—

Brussels Sprouts.	Pkt.	Oz.
New Dwarf.....	05	25

Cauliflower.	Pkt.	Oz.
Lackawanna (New).....	20	2.00
Early Snowball, New, (page 16)	20	2.00
Earliest Dwarf Erfurt.....	20	1.25
Early London.....	15	75
Nonpareil.....	20	1.25
Lenormand's Short Stem....	20	1.25

Cabbage.	Pkt.	Oz.	Lb.
Berkshire Beauty, New,.....	25	—	—
True Jersey Wakefield.....	10	35	5.00
Henderson's Early Summer..	10	40	6.00
Newark Early Flat Dutch....	05	25	4.00
Early Winningstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	20	3.00
Premium Flat Dutch.....	05	20	3.00
Late American Drumhead....	05	20	3.00
Marblehead Mammoth.....	05	20	3.00
Perfection Drumhead Savoy..	05	20	3.00
Red Drumhead,.....	05	20	3.00

Celery	Pkt.	Oz.	Lb.
La Plume Chestnut, New,....	20	1.00	—
Crawford's Half Dwarf.....	05	25	4.00
Carter's Dwarf Crimson.....	15	40	—
New Golden Dwarf.....	15	40	—
Dwarf White Solid.....	05	20	3.00
Boston Market.....	10	35	5.00
Sandringham.....	05	20	3.00
Giant White Solid.....	05	20	3.00
Celeriac, Turnip Rooted,.....	05	20	—

Carrot.	Pkt.	Oz.	Lb.
Early Short Horn.....	05	8	1.25
Improved Long Orange.....	05	8	1.25
Danvers Orange.....	05	8	1.25
White Belgian.....	05	8	1.00

Cucumber.	Pkt.	Oz.	Lb.
Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	8	1.00
Early Russian.....	05	8	1.00
Early White Spine.....	05	8	1.00
Green Prolific.....	05	8	1.00
Long Green.....	05	8	1.00

Chicory.	Pkt.	Oz.	Lb.
Large Rooted.....	05	8	1.00

Cress.	Pkt.	Oz.	Lb.
Curled, or Peppergrass.....	05	8	1.00
Water Cress.....	10	60	—

Egg Plant.	Pkt.	Oz.	Lb.
Long Purple.....	10	50	—
Improved N. Y. Purple.....	10	50	—

Kohl Rabi.	Pkt.	Oz.	Lb.
Large Purple,.....	10	35	—
Early White Vienna.....	10	35	—

Lettuce.	Pkt.	Oz.	Lb.
Black Seeded Simpson, New,..	10	40	—
Hanson.....	05	30	—
Victoria.....	05	30	—
Early Curled Simpson.....	05	30	—
True Boston Market.....	05	30	—
White Seeded Tennisball.....	05	30	—
Black Seeded Tennisball.....	05	30	—
Drumhead, or Malta.....	05	30	—

Leek.	Pkt.	Oz.	Lb.
Large Scotch Flag.....	05	30	—

Musk Melon.	Pkt.	Oz.	Lb.
Nutmeg.....	05	8	1.00
Skillman's Netted.....	05	8	1.00
Ward's Nectar.....	05	8	1.00
Improved Yellow Cantaloupe	05	8	1.00
Green Citron.....	05	8	1.00
Pine Apple.....	05	8	1.00
Jenny Lind.....	05	8	1.00
Surprise, [New].....	10	30	—
Bay View, New,.....	10	35	—

Water Melon.	Pkt.	Oz.	Lb.
Phinney's Early.....	05	8	1.00
Striped Gipsej.....	05	8	1.00
Ice Cream.....	05	8	1.00
Mountain Sweet.....	05	8	1.00
Ferry's Peaches.....	05	8	1.00
Citron, (for preserving,).....	05	8	1.00



# SEED-TIME AND HARVEST.

## Mustard.

White French.....	05	05	60
Black American.....	05	05	60

## Onion.

New Onion Seeds are extremely scarce this season and only those who buy early will be sure to get them. I have a good supply of genuine Yellow Danvers and Red Wethersfield. In ordering say which, if either, of these I may substitute if others are all gone.

Extra Early Red Globe.....	10	40	6.00
Yellow Danvers.....	10	25	4.00
Red Wethersfield.....	10	25	4.00
Large Yellow Dutch.....	10	25	4.00
White Globe.....	10	25	4.00
White Portugal.....	10	25	4.00
New Queen.....	10	25	4.00

## Parsnip.

	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>
Hollow-Crowned.....	05	08	0.80
Smooth Dutch.....	05	08	0.80

## Parsley.

Extra Fine Curled.....	05	15
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## Pepper.

Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne.....	10	25	4.00
Spanish Monstrous (New).....	10		

## Pumpkin.

Golden Marrow, New.....	05	15	2.00
Large Cheese.....	05	08	0.50
Sugar. (Fine for pies.).....	05	20	
Connecticut Field.....	05	05	0.40

## Radishes.

Early Scarlet Turnip.....	05	08	1.00
Early White Turnip.....	05	08	1.00
Long Scarlet Short-Top.....	05	08	1.00
Early Scarlet Olive.....	05	08	1.00
French Breakfast.....	05	08	1.00
China Rose Winter.....	05	08	1.00
Black Spanish Winter.....	05	08	1.00
California Mammoth White..	05	10	1.50
Grey Summer Turnip.....	05	10	1.50
Golden Yellow Summer (New)	05	10	1.50

## Salsify, or Vegetable Oyster.

White French.....	05	20	3.00
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## Spinach.

Round Leaved.....	05	05	0.50
Monstrous Viroflay.....	05	08	0.80

## Squash.

Low's Essex Hybrid, New.....	15	30	
Early White Bush.....	05	08	1.00
Summer Crookneck.....	05	08	1.00
Hubbard.....	05	10	1.25
Marblehead.....	05	10	1.25
Butman, (New,).....	05	10	1.25
Cocoanut, (New,).....	10	30	
Mammoth.....	10	30	

## Tobacco.

Connecticut Seed Leaf.....	10	30	
Kentucky Broad Leaf.....	10	30	

## Turnip.

New White Egg.....	05	15	1.50
Early White Dutch.....	05	08	0.80
Purple Top Strap Leaf.....	05	08	0.80
Long White Cow Horn.....	05	08	0.80
Yellow Aberdeen.....	05	08	0.80
Yellow Globe.....	05	08	0.80
Golden Ball.....	05	08	0.80

## Rutabaga, or Swede Turnip.

White French, or Sw't German	05	08	80
Skirving's Purple Top Yellow	05	08	80
Brill's American Yellow.....	05	10	1 50
Shamrock Swede, Yellow.....	05	08	80

## Tomato.

	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>
Essex Hybrid, New.....	15	.30	.60
Ford's Alpha, New.....	15	.30	.60
Acme, [New.].....	05	.20	.40
Red Chief, [New.].....	05	.25	.50

## Tomato. Continued. *Pkt. Hf.-oz. Oz.*

Red Currant.....	05	.25	.50
Paragon.....	05	.25	.50
Canada Victor.....	05	.15	.30
Conqueror.....	05	.15	.30
Hathaway's Excelsior.....	05	.15	.30
Trophy.....	05	.15	.30
Arlington.....	05	.15	.30
Green Gage.....	05	.15	.30
Golden Rural, New.....	05	.20	.40
Saint Paul, (New).....	15	.30	.60

## Herb Seeds. *Pkt. Oz. Pkt. Oz.*

Coriander.....	05	.20	Dill.....	05	.25
Horehound.....	10	.50	Sage.....	05	.20
Summer Savory.....	10	.30	Saffron.....	05	.25
Sweet Marjoram.....	10	.40	Lavender.....	10	.30
Caraway.....	05	.15	Sweet Basil.....	10	.40
Sweet Fennel.....	05	.20	Thyme.....	10	.50

## Potatoes.

Although the potato crop, generally, was nearly a failure in this section the past season, most of our improved varieties yielded good returns, and we offer a stock fully up to the average in quality. At the following prices pounds will be sent post paid by mail, and larger quantities by express or freight with no extra charge for packing. Orders will be booked as received and filled as soon as the weather will permit.

	<i>Lb.</i>	<i>Peck.</i>	<i>Bush.</i>	<i>Bbl.</i>
The "Belle,".....	.50	1.25	4.00	10.00
La Plume Triumph.....	.50	.75	2.50	7.00
Pride of America.....	.50	.75	2.50	7.00
Saint Patrick.....	.50	.75	2.50	7.00
Late Ohio.....	.50	.75		
Watson's Seedling.....	.50	.75	2.50	7.00
Beauty of Hebron.....	.50	.50	2.50	5.00
Early Ohio.....	.50	.50	2.50	5.00
Ammoth Pearl.....	.50	.50	2.00	5.00
Burbank.....	.50	.50	1.50	5.00

## Grass Seeds.

Timothy, Clover, &c., at Market Rates.



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

**EXPLANATION.**—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—

a.—annual. b.—biennial. c.—climber. e.—everlast-



ing or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a.	.05
Acroclinium album, white, a. e.	.05
rosenm, rose, a. e.	.05
Adonis vernalis, scarlet, a.	.05
autumnalis, crimson, a.	.05
Ageratum Mexicanum, blue, a.	.05
Wenlandii, compactum, white, a.	.10
Agrostemma viscaria, cœli rosa. p.	.05
alba, white, p.	.05
atro-sanguinea, crimson, p.	.05
Alyssum maritimum, sweet, white, a.	.05
Amaranthus candatus, crimson, a.	.05
melancholicus ruber, d'k crimson.	.05
salicifolius, scarlet and purple, a.	.15
Ammobium alatum, (Immortelle,) white, e.	.05
Anemone coronaria, p.	.15
Antirrhinum majus, a. 9 colors mixed	.05
dwarf, a. 10 colors mixed,	.05
Aquilegia hortensis, double, m. p.	.10
chrysantha, new golden-spurred	.10
finest varieties mixed	.15
Aster, peony-flowered, extra fine, m. a.	.10
half-dwarf pyramidal bouquet, m. a.	.10
crown, or cocardeau, m. a.	.10
quilled German m a	.10
fine mixture of the above	.05
Balsam camellia-flowered double m a.	.10
dwarf double m a	.10
double fine mixed varieties m a.	.05
Cacalia, (Tassel Flower) scarlet and yellow a.	.05
Calandrina grandiflora elegans. rosy pink a.	.05
Calceolaria scabiosæ-folia, new, p	.10
Callirhoe pedata nana, purple crimson, a.	.05
Campanula trachelium. double, b.	.10
nobilis alba b.	.10
medium. (Canterbury bells.) double	.05
Candytuft. rocket selected, m. a.	.05
Candytuft fragrant m. a.	.05
hybrid dwarf. m. a.	.10
Canna Indica, 5 colors mixed, a.	.05
Carnation, double picotee, m. a.	.15
early dwarf m. a.	.10
Celosia cristata, —cockscomb— 6 colors mixed	.05
variegata new, m a	.10
crimson, gold and fire-feathered, m a.	.10
Centaurea Babylonica, new p.	.10
cyanns minor m p.	.05
Centranthus macrosiphon m a	.05
Chrysanthemum carinatum, m a.	.05
double white new	.05
Indicum grandiflorum, m p	.10
Clarkia pulchella m a	.10
elegans, new double, pure white	.15
Cobæa scandens, purple c p	.10
Coix lachrymæ, Job's Tears,	.05
Colutea floribunda	.05
Collinsia multicolor marmorata, a m	.05
Convolvulus minor, m a	.05
major, Morning-glory, m a	.05
Coreopsis tinctoria m a.	.05
Cucurbita, Ornamental gourds, m a	.05
Datura fatuosa, double purple a	.05
white a	.05
Wrightii, new double, a	.05
Delphinium (Larkspur,) dwarf double, m a.	.05
tall German rocket	.05
dwarf branching double,	.10
Dianthus dentosus hybridus, m a b	.10
sinensis double m a b	.10
barbatus, [Sweet William,] p m	.05
Digitalis gloxinoides, spotted, white & crimson	.05
Eschscholtzia Californica, yellow a	.05
tenuifolia, new a	.05
Entoca Wrangeliana, low blue annual	.05
Geranium, zonale and inquinans mixed, a p	.15
Gilia tricolor, blue, white and lilac m a	.05
Globe Amaranth 6 colors m e a	.05
Godetia, Lady Albemarle, new large crimson a	.15
roseo albo, Tom Thumb a	.05

Helichrysum lucidum m a e	.05
dwarf m a e	.05
monstruosum double m a e	.05
Helianthus globosus fistulosus a	.05
Californicus, double a,	.05
Helipterum Sanfordii, yellow everlasting,	.10
Hollyhock Chinese double a	.10
Honeysuckle, Hedysarum coronarium m a	.05
Ipomœa Quamoclit, Cypress vine m a	.05
Jacobœa, Senecio elegans double m a	.05
dwarf double m a	.05
Lantana hybrid m	.05
Linaria bipartita flora albo a	.05
purpurea, snapdragon a	.05
Linum grandiflorum roseum a	.05
Lobelia Erinus grandiflora superba	.05
Lupins, Dunnettii superbus, new a	.05
tricolor elegans new a	.05
polyphyllus mixed p	.05
Lychnis chalconica, white and scarlet m p	.05
Haageana hybrida new p	.10
Marvel of Peru hybrid, Four o'clock, m a	.05
mirabilis jalapa a	.05
Marigold African double m a	.05
French	.05
Mignonette, Reseda odorata, sweet-scented a	.05
large-flowering a	.05
Mesembrianthemum, Ice plant, a	.05
Mimulus cupreus hybridus extra a	.10
Nemophila insignis, blue with white center a	.05
discordalis, black—white margin a	.05
elegans —very brilliant— a	.10
maculata white and purple a	.05
Nigella Damascena, Love in a mist, a.	.05
Hispanica a	.05
Oenothera Drummondii, Evening Primrose a	.05
macrocarpa	.05
acaulis	.10
Pansy large flowering, very fine mixed, a p	.10
Peas sweet	15 cts. per oz
Petunia hybrid, very fine mixed colors a p	.05
double striped	.25
Phlox Drummondii splendid mixed colors a	.05
perennial	.05
Portulaca grandiflora m a	.05
double extra m a	.05
Primula Japonica, new Japanese primrose a b	.05
elatior, cowslip m a b	.05
Rodanthe Manglesii, everlasting m a	.05
maculata	.05
Ricinus sanguineus, castor oil bean a	.05
major, largest variety a	.05
Salpiglossis hybrid blue and scarlet m a	.05
Salvia coccinea a p	.05
Scabious major, mourning bride m a	.05
minor, dwarf double m a	.05
Silene Armeria, Lobel's catchfly m a	.05
pendula double rose a	.10
Schizanthus papilionaceus m a	.05
Stocks Brompton m b	.10
German ten weeks m a	.10
Parisian	.10
Tagetes lucida m a	.05
signata pumilla a	.05
Tropæolum Lobbianum, spit-fire a	.05
Tropæolum majus, Tall Nasturtium. a	.05
Verbena hybrid, extra choice mixed a	.10
Virginian stock m a	.05
Wallflower double m p	.05
pure bright yellow, new	.10
Xeranthemum annuum Imperial double a	.10
mixed varieties a e	.05
Zinnia elegans, double m a	.05
dwarf m a	.05

### ORNAMENTAL GRASSES.

Agrostis Pulchella.	.05
Briza Maxima.	.05
Gynerium, or Pampas Grass	.05
Stipa Pennata, or Feather Grass.	.05
Striped Leaved Japanese Maize.	.05



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A great Specialty of my business is growing Cabbage and Celery Plants for Market Gardeners and planters. I annually put these in *by the acre*, and can fill the largest orders in their season—from June 1st to August. Please note the following prices which are for well grown, healthy, stocky plants, carefully packed and boxed so as to carry safely long distances by express:  
 CABBAGE, 1000 \$2.00, 5000 or over \$1.50 per M. CELERY. \$2.50 per M.  
 ISAAC F. TILLINGHAST, LaPlume, Pa.

**Prize Bred Essex Pigs!!**

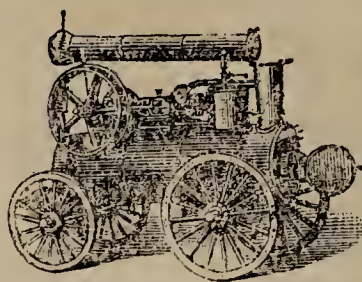
Essex are the BEST FARMER'S PIG.  
 Have been known to  
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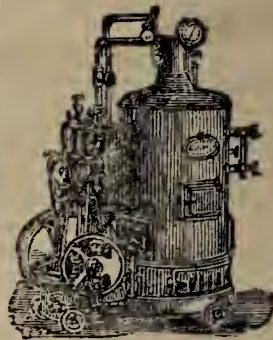
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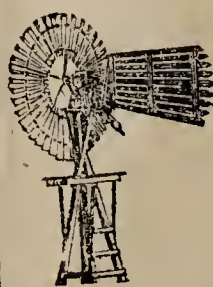
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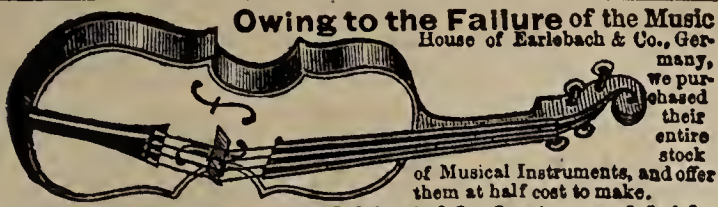
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Number Six.

Seed-Time and Harvest.

APRIL, 1881.



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An Illustrated Quarterly Horticultural  
Magazine.

Isaac F. Tillinghast, Editor & Publisher,  
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# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO 6.

APRIL.

1881.



Anemone, Double French.



## The Newer Potatoes.

BY ISAAC F. TILLINGHAST.

Having for the past ten years experimented largely with new and standard varieties of potatoes, planting annually upwards of one hundred varieties, consisting of all the standard kind and most of the novelties offered by various seedsmen, as well as many seedlings sent for trial by friends in various sections of the Union, it may not be uninteresting to many readers to give a few notes upon the newer offerings of this most important vegetable.

The most popular variety now grown among the farmers in this section is the Burbank Seedling which has, to a great extent, displaced the N. Y. Late Rose. It is so well known that a description is unnecessary and whatever variety displaces it will certainly possess more than ordinary merit. Early Ohio has for several years been our best very early potato, but I find that to produce paying crops of large sized tubers it requires very rich soil and careful attention.

BEAUTY OF HEBRON is with us fast taking the place of Early Ohio being better adapted to field culture and giving better results with common cultivation.

PRIDE OF AMERICA. In spring of 1876 Mr. Brownell, of Vermont, sent me for trial a tuber labeled Early Williston which for three years in succession has shown marks of decided superiority in my trial grounds. This variety has recently been offered to the public as Pride of America, Mr. B. having decided to change the name before making it public. In color and shape it somewhat resembles the Snowflake but is with me a better cropper and of very fine quality. I regard it as one of the best of Mr. Brownell's offerings.

LA PLUME TRIUMPH. Some four years since a seedling was sent me from New Hampshire under the name of Triumph which has given a bountiful yield of large healthy looking tubers of fine quality. So highly pleased was I with this variety that I offered it for sale, the same season a variety differing entirely from it was offered by other parties under the same name. To prevent any misunderstanding in regard to it we have since called it the La Plume Triumph, and after three years trial find it one of our most valuable kinds for general field crop, for home and market purpose.

MAMMOTH PEARL. I have now grown this for two years. It is a large, nearly round, white

variety, very heavy and solid. The vines are exceedingly strong and thrifty, and it is very productive. I think however that its claims to earliness and fine quality have been a little over estimated by some of its admirers. Yet it usually satisfies its purchasers.

By cutting white eyes from the Blue Victor I obtained a variety so closely resembling the Mammoth Pearl that I now believe it originated just in that way.

ST. PATRICK. So far as I have seen, reports of this variety have been only notes of praise. I grew it quite extensively last season and have nothing to say against it. But I will say this much of it. If any man can see, either in the appearance of the tubers or vines any difference whatever from the already well known and popular Burbank he has better perceptive faculties than I have.

DEFIANCE. This beautiful variety originated in this county three years ago. It is a seedling of the Climax produced by Mr. Collins, a gentleman who has given the production of new seedlings a great deal of attention for many years and offers this as one of the best he has ever seen. It is handsome and symmetrical in shape, eyes few and not depressed. The vines grow very strong and cover the ground well. The tuber set very full and grow large, but do not sprout much in the hill. In color it is russet white; quality superb, in fine it seems to combine the habits and protective ess of the Burbank with the quality of the Snowflake.

WATSON SEEDLING. This is one of the many sorts intended to take the place of the Early Rose which it closely resembles in shape and color. This might be thought no objection by some, but I find that when people purchase a half dozen new varieties all so nearly allied to something they already have that they cannot tell them apart, they are usually disappointed and I think not without reason. This is the chief fault with Clark's No. 1, and Chicago Market both being otherwise promising.

The BELLE is one of the most remarkable, and all things considered the most desirable variety that has yet come to my notice. In my judgment it is of the best possible color, viz., a light red with skin slightly netted or covered with russet. It is very smooth and beautiful in form and proportions with eyes but slightly depressed. In size it is extra large and yet is solid never prongy or hollow. It is unsurpassed in cooking qualities, fairly eclipsing the old Peach-blow in its palmyest days, and in yielding quali-



ties not to be out-done. If upon further trial it deports itself as it has since coming to my notice I shall consider it truly an acquisition.

It may not be out of place for me to remark in this connection that repeated trials of London Purple so highly recommended for exterminating the COLORADO BEETLE, did not indicate that it was an improvement upon Paris Green in any way. It seems to be more hurtful to the vines than the bugs, and a number of farmers who tried it in this vicinity last season speak very discouragingly of its effects. I tried it to my satisfaction and shall return to Paris Green, even at four times the cost. If others who tried it are satisfied I hope this will call out favorable reports.

### New Vegetables.

One of the most interesting, although perhaps to us, not the most profitable department in our business is our Experimental Grounds where New, Rare and Curious things from all quarters are planted and compared with our old standard varieties in order to determine their value.

We respectfully request contributions to this department from all or any of our friends who will kindly favor us.

If you have seeds or plants of any variety which you think unknown to the trade, and which you believe particularly valuable either on account of earliness, fine quality, or for any peculiarity, and will send us a sample, just enough so we may test it and compare it with other sorts—we will at least thank you for the trouble, and will if you desire, send you something in return from our list. Whenever we in this way get hold of a variety which proves to be an acquisition we will offer the seeds to our friends at as low a price as the supply will warrant and you will thus get the benefit of our labors. We have in this way planted and tested several hundred varieties of potatoes, alone and consider ourselves well paid in securing so valuable a variety as the *Belle* has proved to be. Below will be found a list of other vegetables which have shown decided points of superiority and we take pleasure in calling attention to them

**LA PLUME CHESTNUT CELERY.** This is a magnificent new half dwarf white Celery having uncommon large and solid leaf stalks which possess a peculiar chestnut flavor which is greatly admired by all lovers of good Celery

**LACKAWANNA CAULIFLOWER.** This is a very fine new, early large heading variety which originated a few years since with a gent,

leman in one of our seaport towns, where the growing of of Cauliflower for market is carried on extensively. By long continued selection it has become fixed in type so that it reproduces itself with certainty. It grows to a large size is beautiful in form and color, and is one of the most certain to head up evenly, scarcely a head failing if given a chance.

**ESSEX HYBRID SQUASH.** This is a new and very excellent variety introduced to the public last season for the first time. It is a cross between the Hubbard and the American Turban having the color, shape and superior quality of American Turban, with the hard shell and dryness of the Hubbard. It is one of the richest flavored, finest grained, and sweetest of all the the squash family. It is also very early and productive.

**BLACK SEEDED SIMPSON LETTUCE.** This has been grown among New Jersey marketmen for several years and is so highly prized that we have heard of its being sold for \$35. a pound. It was first offered to the general public last season by a New York house, and has given general satisfaction. It is mainly used for forcing under glass, for winter and early spring use

**WINONA DWARF WHITE MARROW PEAS.** This excellent new variety originated in northern Minnesota. It is large and prolific like the old Morrowfat, but only grows 18 inches in height.

**CRYSTAL WHITE WAX BEAN.** A very new variety, the latest improvement of its class. It produces a great abundance of fine large white crystal pods which are tender and excellent.

**RED RIVER SWEET CORN.** This is a beautiful amber colored variety, which originated in the valley of the Red River of the North, in northern Minnesota. It is a week or more earlier than the well known and popular Early Minnesota, and will without doubt prove a valuable acquisition.

**ESSEX HYBRID TOMATO.** This a very large smooth, solid, early, variety, from Mass. The originator claims that it possesses more good qualities than any other yet offered.

**ST. PAUL TOMATO.** A new very early sort from Minnesota. It is smooth solid and beautiful. One of the earliest we have yet tried.

**NORTH STAR GOLDEN DENT CORN.** This also originated in northern Minnesota, and is the only pure Yellow Dent variety early enough to grow successfully in all of our Northern States. It has a red cob and a profitable sort for any locality.



**SQUAW CORN.** This is a field variety, having large kernels of red, white, yellow, brown blue, green and mottled colors, some ears being beautifully variegated. It is undoubtedly one of the earliest varieties known, ripening even in Manitoba.

**NICOLLET BIG GEM PEA.** These in shape size, color, productiveness and fine quality, resembling the Champion of England, but are an improvement on that well known variety in growing but one half as high. These blue wrinkled varieties are in quality the best peas in the world and this in size and productiveness is not to be excelled.

**EARLY BLEICHFIELD CABBAGE.** This is a new German variety—some two weeks earlier than the popular Winnigstadt, yet growing nearly as large. We find it valuable for very late setting as a second crop. They last season produced fine heads on plants set after July 20 when no other kind which produce large heads would have had time to mature.

**GOLDEN MARROW PUMPKIN.** This is the handsomest and best flavored varieties for pies, we have ever grown. It is well adapted to field culture and may be planted among corn.

**FORD'S ALPHA TOMATO.** Another extra early variety, which claims the championship for earliness and productiveness. It is well worth a trial.

We earnestly request that all our friends who try any of these novelties will report to us whatever degree of success they may have with them.

We will publish these reports, and those who do not try them this season can thus judge as to whether it will pay them to do so next season or not.

### Tuberose.

This fragrant and beautiful plant is a native of the East Indies and requires a long and warm season to bring it to perfection. It should be started early in the greenhouse or hot-bed. Lacking these conveniences, a warm place in the house will answer. Amateur florists have not all learned that this bulb blooms only once, and the bulblets not until the second year. Spade the soil deep, with a plentiful proportion of well decayed manure; plant the bulblets between two and three inches deep, and far enough apart to leave room for weeding. Keep the ground well stirred until frost withers the tops; Then dig the bulbs, dry them in the sun for a few days, protecting them from frost at night. Remove all dead leaves and store in a dry place. Early in the Spring take off the side shoot and

prepare the bulbs for blooming. This cultivation of the offsets can be successfully carried on in a mild climate, but with us the season is too uncertain to insure a proper ripening of the bulb. The safest plan in our cold country is to procure fresh bulbs every year. Select the strongest and best grown tubers, large and plump to the very top, and free from old blossom-stalks. Put a drainage of charcoal in the bottom of the pot, and over it a layer of dry old cow-manure, broken fine. Fill the pots up almost full of rich loam mixed with leaf-mold sand, and a little charcoal-dust. Take every offset from the bulb, then plant it in the soil, and just cover it from sight. Plunge the pot in the hot-bed or set it on a shelf near the kitchen fire. If it has plenty of heat it will require a good deal of moisture; but moisture without heat will rot the bulb. To do well, it must be kept warm, and the soil must be allowed to get dry and powdery.

### Celery.

This wholesome vegetable is coming into prominence in late years. Fresh, crisp celery is an indispensable article on the tables of the rich, and it is gaining favor among the multitudes in humble life. Scientists agree that celery, which is both healthy and palatable, possesses rare qualities that contribute muscle and brain power—that it steadies the nerves, and that its medicinal properties have wholesome influence on the entire human system. Of the various modes advanced for cultivating and bringing celery to the highest standard of perfection we have discovered, through actual practice, that the trench system leads. "Not the collecting of the plants together in the fall," but trench the young plants at the time of transplanting in July, and these treated and earthed by degrees and covered at the approach of severe weather and there allowed to remain until taken out as needed for the table.

Some very practical persons adhere to the surface culture of celery, forgetting that the trench is proof against the extremes of heat, and the plants therein better supplied with moisture. There is, however, an item in the celery trench that we would caution against—the application of too much earth to the stalks in midsummer, which in many cases covers the heart of the plants and causes the outside stalks to rust and decay on account of their contact with the earth. This decay can be avoided by delaying the earthing-up process until the beginning of September, and then earthed gradually until finally covered, which is, in our latitude about the second or third week in November. In starting celery



seed the aid of hot-beds is not required, as formerly supposed. We sow our seed in an open bed about the middle of April, "cover lightly," and keep the soil moist until the plants attain four or five leaves. Weeds are exterminated, and the plants are not allowed to over-crowd each other. This insures us thrifty plants for transplanting in trenches in July. We set the plants six to eight inches apart each way, and two rows to a trench. In digging the trench we lift the sub-soil out and let the surface-soil drop to the bottom. The trench is dug from one foot to fourteen inches deep, and half this space filled with loose surface-soil. The plants are watered plentifully for three days after transplanting, thereafter only in periods of dry weather. Manure is always acceptable to celery, but it should be well decayed. Salt, ashes, bone dust and other fertilizers, are always congenial to celery growth. The owners of gardens, either in suburbs or country, will find this wholesome vegetable as easily managed as any other product of the market. The dwarf white varieties are our favorites.

*John Quill.*

### Asparagus Culture.

Two of the most delicious of all vegetables, Celery and Asparagus, though growing every year in well deserved popularity, do as yet not find, with many farmers, the full appreciation that their value really calls for. We think every family ought to have at least a bed of Asparagus, which, when once prepared, lasts almost a lifetime, and furnishes year by year without fail—a large amount of a most excellent green sauce for the table at a time when other vegetables cannot often be procured. We prefer the banking up method, blanching the shoots as we would celery. In principle we fully agree with M. L. Herault, whose method of Asparagus culture is mentioned in the Rural New Yorker of Dec. 18, 1880. He says: Plant them very near the surface of the soil, earth them up in Spring, cut moderately." We use a compost of fine saw dust, clean horse manure, and sandy loam for banking up, putting ridges from 8 to 10 inches high over the rows. This compost is very light and loose, offering but little resistance to the rapidly growing sprouts. We do not cut them with a knife, but, running the finger down along the sprout, through this light material, break it off at the base. In delicious tenderness and large size our asparagus is not often surpassed. Do not fail to set out a bed if you have none now.

### Grafting.

I believe all animal fats and oils to be unhealthy applications to vegetable growths. Therefore I question the advisability of employing either lard or tallow as an ingredient in grafting wax. Indeed, I have remarked that when I have formerly used such wax, the bark would die away from the end of the stump and sides of the cleft in quite healthy young wood—an accident that rarely happens when the wax compounded with innocent materials. I always prefer making my own grafting wax to buying it as I know it to be the best material, and after a good many years' experience, I have settled down to the following composition as combining all the necessary qualities of a good grafting wax: Take of linseed oil 1 pint, clear rosin 6 pounds, pure bees wax 1 pound: melt together slowly, so as not to burn and stir thoroughly together; pour into a pail of cold water, and when cool enough, work white like molasses candy. make up into rolls six inches long and lay upon a beam in a cool cellar. It will keep there perfectly good for many years. When taken out into the garden in a mild day, it will soon be soft enough to handle easily. If the hands are rubbed with a little linseed oil occasionally, the wax will not be troublesome to them.

Grafting on a pleasant spring day, and when one is not forced to hurry, it is a very agreeable occupation, and unless the wind chops round into the east, and stiffens up the wax, by no means a fatiguing one. A few simple rules if properly kept in mind will favor success. Use a line saw for cutting the stump, and pare the edges smooth with a sharp knife before making the cleft, which should always be oblique to the horizon. If perpendicular the scions will often fall out after growing rapidly, for lack of support. If the horizontal, the young limbs will split off one-half the burch as soon as they begin to bear; on upright of course it makes little difference. Cut the scions from vigorous old limbs, where the new wood is short. Never use suckers or long tapering shoots, unless absolutely necessary. If there are plenty of scions, use only the terminal buds, as they start most readily. Leave only two or three buds above the cleft, as long scions often blow out. After shaping the scions keep the thin ends in the mouth so that they shall not dry before insertion; cover each graft carefully, end and sides, with wax, before beginning on another. Leave no hole for air or water to penetrate, however small, and wind a strip of cotton cloth over every part of the wax, that the



## SEED-TIME AND HARVEST.

sun in May and June shall not melt it away before the bark has united.

It is well to set the scions slightly diverging from each other, so that the bark of the scion and the bark of the cleft will cross each other at long angles, and develop points of union. In grafting over a large tree, it is well to do the top first leaving the lower limbs to take the sap thereby not forcing the new growth inordinately. After the top is well grown, finish up the base of the tree, a limb or two each year.

*Brookline.*

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### *Answers to Correspondents.*

Claymont, January 10, 1881.

I. F. Tillinghast,

Dear sir:—On the 6th page of SEED TIME AND HARVEST, January number, you propose to deliver any order free of charge at the door of the purchaser. (1) Do I understand it correctly, as applying to everything on your list?

I observe, by comparing your price-list with Peter Henderson's, a considerable difference in the price of several kind of seeds. (2) Do you believe yours to be of as good quality as his?

The new Tomato (St. Paul,) you speak of as producing uniformly large fruit. (3) Is it as large as the Paragon?

(4) Would it be advisable to discard the Paragon and substitute the St. Paul for it, and also the Essex Hybrid? Is the latter of large size?

Your La Plume Triumph Potato did not do nearly so well with me as the Early Ohio, planted side by side, with the same treatment. The Mammoth Pearl produced satisfactorily considering the dry season the had to make in, and the quality is very fine.

Your new potato the "Belle" is glowingly introduced. Please save me one peck of it; your price is quite moderate. The last potato I paid a high price for was the Snowflake—\$5. per bushel with the understanding that the party I purchased of would take any I might not wish to keep, the following Spring, at current rates when I sent the surplus at \$4. per bbl. (4) What of the St. Patrick and the Late Ohio?

If you will be kind enough to answer the above inquiries, you will much oblige yours very truly,

I. M. PAGE.

ANSWER—(1) All seeds quoted by weight and in packets are delivered by mail post-paid. Seeds sold by measure, however, in-

cluding potatoes &c., are shipped at purchaser's expense unless plainly stated otherwise.

(2) I endeavor to offer the best seeds that I can possibly obtain. If I did not believe them to be of the best quality I certainly should not offer them.

(3) I regard the Paragon Tomato as very hard to beat, and would not advise you to discard it for any new one until you have tried and proved it to be an improvement on your own grounds. The St. Paul and Essex Hybrid are first class and worthy of extensive trial. The latter is the largest in size.

(5) You will find my opinion of the St. Patrick Potato elsewhere in this number. The Late Ohio bears about the same relation to the Early Ohio, that Late Rose does to Early Rose. It is not a distinct seedling, but only a sport selected from the early by reason of its more vigorous growth and later maturity.

April 1st, 1881

Mr. I. F. Tillinghast,

Dear Sir:—I raised a lot of top or button onions last season, and on the tops and around the buttons there were small shoots that produced seed on the same stalk with the buttons.

Now what I would be pleased to know, will this seed if sown, produce large onions the same as seed grown from onions that produce no buttons, will it produce onions large or small?

This is a question in dispute here among onion growers. Cabbage seed at hand all right.

Yours Truly,

L. ADAMS.

ANSWER:—This is a question which I cannot answer, never having sown any of these seeds. Will any of our readers who have, please tell us the result?

Upperville, Fauquier Co., Va.

I. F. Tillinghast,

Sir:—The box by Express containing the Belle Potato and other seeds has come all safely to hand: Thanks. Please be kind enough to answer the following about the potatoes: Is it an early or late variety? What is the best time to plant them? I think of getting one of your wheel hoes—will probably order one soon. Would it be best to have it sent



by express or freight? How much would it likely cost to get it to this place, Deleplane, Fauquier Co., Va? If I do get one, and I find when it comes that I can sell one or several of them for you, what could or would you be will to allow me for doing so?

I would like to get mine as low as I can, I thought perhaps you would make a proposition.

Am sorry your "Manual of Vegetable Plants" is out. I shall expect the copy as promised, I hope soon to get it.

Please let me know what you can furnish German Millet at per bushel, and the best time for sowing it? Would it be too late to sow on this year's wheat stubble, immediately after harvest?

I find that I have ordered about 40 cts. worth of seed more than I shall want. Would you be willing if I return them by mail to exchange them for other seed—say carrot, beets &c? I shall need some such roots for cows next winter. Please let me know what you consider the best for this purpose.

Very Respectfully Yours,

W. F. KERFOOT.

ANSWER:—(1) The Belle Potato is medium in earliness, ripening with or soon after Late Rose. Plant same time you would any late variety. There is a great diversity of opinion about the best time to plant potatoes, and the result of different planting depends greatly upon the season. In a majority of cases I think early planting has succeeded best with me, yet I usually plant whenever I get time and the ground is in good condition. "In the morning sow thy seed, at eve hold not thy hand, for thou knowest not which shall prosper."

(2) I will send two of the cultivators, [Ruhlman] for \$1.0. Would send by freight unless you are in a great hurry for it. The price is low for so good an implement and I cannot make a greater discount.

We will furnish the German Millet for \$3. per bushel including bag. Sow it broadcast at corn planting time or at any time in May or June.

About one-half bushel per acre is usually sown. After wheat, would be rather late to get full benefit. but I think you would get at least one good cutting. You may exchange the seeds for others if you wish.

Mangel Wurzel Beets are largely grown as winter and spring food for milch cows

The particular variety can be best determined by trial, the Long Red variety usually doing best upon rich upland and the Yellow Globe varieties succeeding better upon sandy soils. Four or five pounds of seed per acre should be sown in drills 3 feet apart early in May, and forty tons per acre is not an infrequent yield.

H. Imdel, N. J. April 5th, 1881.

I. F. Tillinghast,

Dear sir:—I received a few days since your catalogue of seed, plants &c. In it you offer some new varieties of potatoes.

Being a grower and dealer in seed potatoes, I wish to know at what price you will sell me a barrel of the "Belle" potato; one peck each of Defiance and Luxury, and one half bushel of La Plume Triumph.

Last year I grew Pride of America, which I consider a great acquisition—Silver Skin, quality good, but poor yielder—Matchless quality fine medium cropper.

The above are the new varieties offered by Messrs. P. K. Bliss & Sons, last Spring. I also grew St. Patrick and White Elephant and do not like either. For the last two years have grown Mammoth Pearl, yields tremendously, good shipping, quality poor, ranks with Peerless. Magnum Bonum planted for first time last spring. It will never be a favorite in this locality.

Yours Respectfully,

JOHN L. CONOVER.

ANSWER:—Our price for varieties you name will be found in seed-list. Our supply is not large, and we can not make special or lower rates now to anyone. Shall be pleased to have you test our varieties in comparison with those you have and report the result for the benefit of our readers.

Galena, March 25, 1881.

I. F. Tillinghast,

Dear Sir:—Your esteemed package containing Corn and Tomato received to day, for which am much obliged. And for which, will remit if desired. As you are a large grower of vegetable plants I wish to pre-pound a few questions.

(1) Did the worms injure your Cabbage and Cauliflower? What is the most effectual remedy? Is salt, pepper, or bran beneficial? Can we as



certain or destroy larvæ, or miller? What could Cabbage, or Cauliflower be expressed for, or rather express charges from La Plume, to Galena, per thousand?

(3) Do seedsmen take eyes from small, as well as large potatoes? What is your experience in the comparative difference between planting small and large potatoes? It has appeared to the writer, that the same principle that permeates and is practised upon in the animal kingdom should also be observed in the vegetable, although farmers usually plant small or medium sized ones.

Very Respectfully,

G. W. Fuller.

ANSWER:—(1) The green cabbage worm was a few years ago very destructive in this vicinity, but for 2 or 3 years past they have not been plentiful enough to do any serious damage by reason of a parasitic insect which works destruction to them while in chrysalide form, and we have paid but little attention to them. If any of our readers have discovered or practised any remedy which has proved effectual in protecting the cabbage against their ravages we shall be pleased to publish it.

I have frequently watched the little brown bush sparrow or chipping bird,—which builds in a bush in the dooryard and lays four blue eggs with sprinkling of black on big end—searching over the cabbage plants very industriously for these worms, and it seemed surprising how sharp their eyes became by practise, as they would invariably discover the worm and capture it before I could see it, away she would fly to her nest with the worm, and before many minutes had elapsed back she would come and renew the search, keeping at it from early dawn to close of day. If there is a better remedy than this I have yet to discover it. The miller can easily be caught in a scoop-net by a boy who will work at it faithfully for 25 cts. per hundred.

[2] I cannot give exact amount of express charges from here to your place but I think it would amount to more than the plants are worth here.

[3] We do not send cut potatoes by mail but pick medium and small sized tubers for mailing, I do as I would be done by in doing this. You get more eyes on a pound

in this way; probably grow more from them than from a pound of large tubers. But if seed is cheap I prefer to plant large tubers every time. I do not like more than two or three eyes in a hill, but prefer to have each eye on as large a piece as possible in order to give it a vigorous start. I therefore like the plan of taking a large tuber and cutting all eyes out except one, but of course I do not think it would pay to follow this on a large scale.

CODLING MOTH TRAP—We here give the method of trapping the codling moth, used by Mr. Tuttle, a leading Wisconsin horticulturist. Take shallow pans or saucers, and place strong apple-vinegar in them, and hang among the branches of the trees. The smell of the vinegar attracts the moths and they are caught and drowned at the same time. Mr. Tuttle says he has caught over forty codling moths in one of these pans in a single night. He counts it a great success.

Old tin fruit cans suspended by a wire and filled with sweetened water mixed with vinegar would certainly dispose of enough moths to lessen the number of wormy apples.

LEAF-MOULD.—If you take well decomposed, leaf soil and sift and examine it, you will find that it is altogether a mass of worm casts. Rough rooting plants take kindly enough to this but tender and delicate rooting ones do not. In order to make it good and ready food for all, I rub it hard between my hands till it feels as mellow as flour. In this state, and mixed with its bulk of clean sand and a little mellow loam, almost any "hasty" seed will grow in it; But for palms, myssa, fraxinellas, paeonias, and other seeds that take months, a year or more to germinate, I do not use it, as I have found it has a tendency to rot the seeds. Leaf-mould is a capital thing for mixing loamy soil in spring, for potting or boxing-off seedlings, rooted cuttings, or winter-stored roots or other plants. W. F.  
*Cambridge, Mass.*

### Our Manual.

We have in preparation a new edition of our Manual of Vegetable Plants, which will be ready for distribution in a few days, and those who are entitled to it will receive it as soon as published. We trust our friends will be patient a few days longer.



## Insect Pests.

In order to prevent for the future, many inquiries, in regard to remedies for the cabbage worms, squash bugs and other insects, and at the same time, to benefit a large number of our friends, we will describe here our method of fighting these enemies. But let us say to you right from the outset, that the old adage "an ounce of prevention is better than a pound of cure" is only too true. It is easier to keep the bugs off than to drive them away after they once get possession of the field and therefore we resort when possible, to the defensive rather than the offensive mode of warfare.

Everything that tends to push vegetation, to invigorate the plants and make them grow thrifty and rapidly, tends at the same time to lessen the danger from insects. Therefore, try to bring about a combination of the the most favorable conditions to plant growth, suitable location, the right kind of soil, plenty of manure, artificial fertilizers, liquid manure etc., and a very frequent use of hoe and cultivator.

**CABBAGE PESTS. THE FLEA BEETLE** (Cabbage or Turnip flea) is a small black bug that infests all plants of the Brassica family and is particularly fond of mustard. It punctures the seed leaves of every young plant and sucks their life blood out of them. When in the larvæ state (a white grub) it tunnels through the main roots of Cabbages, Turnips, and Radishes, causing generally complete destruction to the first named and making the latter two unfit for the table.

I. F. Tillinghast, (see Manual of Vegetable Plants) recommends the following preventive: Raise Cabbage Plants etc., as far as possible from the spot where any such plants were grown the year previous, supply an abundance of food for the bugs on the old plant patch by sowing Cabbage and Mustard thickly close by, and lastly change the scent of the plants to be saved by placing rags saturated with Kerosene, Spirits of Turpentine, Coal Oil, Carbolic Acid or any other strong smelling substance, all over the field.

If these preventive measures cannot be employed, or the bugs make their appearance in spite of them, sprinkle plaster or dry wood-ashes over the young plants every morning before the dew is off. This will quickly drive the bugs away.

The same preventive as for the flea beetle, change of scent of the growing plants, is also sometimes recommended for the

**GREEN WORM.** Still, while it is true that the parent of the worm, the white butterfly, is attracted to cabbage fields merely by the sense of smell, we consider this preventive impracticable and needless also as we know some infallible remedies. If you have but a few cabbages, look them over frequently and, with a pair of sharp scissors, cut all the worms you can find in two. This is sure but rather laborious. Whenever practicable, we recommend the drenching of the heads with strong washing suds, applied judiciously while hot. This not only destroys the worms and eggs, but also frees the plants from dirt and acts as a strong fertilizer. The simplest and best remedy on a larger scale is the application of Pyrethrum (Persian Insect Powder) dusted thoroughly over the plants and repeated as often as necessary.

After writing the above, we find another "SURE" cure recommended in the Rural New Yorker of December 25th, and we will repeat it in condensed form. Cover the plants with dry unleached woodashes, using one half to one shovel full to each plant, according to size. This remedy can easily be applied and will pay from a manurial point of view alone, even if it should not destroy the worms entirely. But we think it will,

**SQUASH PESTS.** A hard task indeed you have before you to fight the two bugs, that infest all kinds of running vines. But both of them, the striped cucumber bug and the large brown bug, known as "Stinkbug," must be kept off, if you want to save your cucumbers, melons, squashes, pumpkins, etc. Often you can hide the young plants successfully among other garden stuff, in a potato patch, or by sowing a ring of buckwheat or beans around the hill; you can also cover them, if the patch is not too large, with boxes, plant protectors or paper. Ashes, or rags saturated with kerosene or coal-tar and placed around the hills, plaster, dry ashes, soot, air slacked lime, road dust, all are excellent when dusted over the vines freely every morning. Not less effective is the daily application of liquid manure, which after having been standing in the sun for a number of days, gives off a smell too rank even for the bugs. But no success without constant vigilance.

Examine your vines, when young, every day closely, and not only kill all the "stink-bugs" you find, but also destroy their eggs, deposited generally on the under side of the leaves.

TUISCO GREINER.



# SEED-TIME AND HARVEST,

**Published Quarterly**  
FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 25 CENTS PER AGATE LINE.

LA PLUME, LACK'A CO., PA., APRIL, 1881.

**SHALL IT BE MONTHLY?** Seed Time and Harvest is now in its second year. Up to this we have given it only a portion of our spare time, and not receiving full attention its issues have frequently been sadly delayed, as is the present number. Our subscription books now show over 1500 actual paid subscriptions, and our subscribers frequently request that it be published monthly. By putting the subscription price at 50 cts. per year and giving it our whole time and attention, we think this may be done in the near future, and we would thus be enabled to make it much better than at present. We shall be pleased to hear from as many of our present subscribers as will promise their support and will be governed by them in the matter. What say you—shall it be monthly?

**The Luxury Potato.** Just as the last pages of our Seed Catalogue were going to press we ascertained that we were limited to one bushel of the Luxury Potato. We therefore withdrew by Post Script all offers of it except by the pound, but inadvertently left a special offer of "five pounds of any variety for \$1.00" standing. The result has been that we have received more orders including "one pound Luxury" than we can possibly supply. Under these circumstances we have decided that we will be doing the "greatest good to the greatest number" to send only one tuber each of this variety in such orders, rather than send full pounds as far as they will go and make others go without any. Considering that we did not intend to let this variety stand in the offer alluded to, is not this the fairest course?

**Testing Seeds.** Of course I carry some seeds over every year, and what gardener does not? Many varieties are just as good at two or even three years old

as at one, while some are rendered worthless. A simple and effective plan for deciding this matter which we have in operation is constructed as follows: an old type case, which is a shallow box or drawer divided by partitions into many compartments, and is first nearly filled with clean white sand. This is thoroughly wet with a sponge and a few seeds of as many kinds as are to be tested are placed in the sand in the centre of each compartment. The whole is now covered with a wet cloth and placed in a position where it will receive warmth. The cloth should be removed and dipped in warm water once or twice each day, and in a few days you will know as well which seed may be depended upon for vitality as you will after planting them in your own garden. New seeds are sometimes spoiled in ripening and curing, or drying. Therefore, no matter when or of whom you procure your supply, we would advise testing them in this manner before planting largely.

**Our Business Methods.** Knowing that our patrons are always anxious to know whether their orders have reached us, we have adopted the plan of acknowledging each and every one by return mail. Therefore, if in future you do not hear from us in a reasonable time after writing to us it will be better to make inquiry. On our acknowledgement card we will give the number of your order, and you will greatly oblige us by always mentioning this number, if for any reason you have occasion to write to us. There are a very few items advertised which it is impossible for us to supply. In this case we usually substitute some good variety which if not wanted our friends are at liberty to return when we will refund the money sent for it.

**Please Report.** We have this season sent out quite a number of New Vegetables which will be planted in hundreds of localities for the first time. We do not offer them until we are satisfied that they are really meritorious, yet, to fully prove their value in all sections, we solicit reports from all who try them as thousands may be governed another year by the reports sent in by those who try them this year. If



any new variety which we send you proves particularly satisfactory, or, in any manner particularly unsatisfactory, you will confer a favor by sending us a short report early in the fall. We will publish these reports for the benefit of those who are waiting the result of your trials.

‘SEED TIME AND HARVEST’ is the beautiful title of a young Quarterly, that has just been issued for the benefit of those interested in the subject; and who, pray, is not interested? For nearly six thousand years “Seed Time and Harvest” have succeeded each other in regular order, and brought their golden riches of fruits, grains and flowers to delight the eye, supply the wants and cheer the heart of man. “Seed Time and Harvest” was promised by Him who commanded the Earth to bring forth grass, herbs, trees, seeds and fruits, and like all such promises they have never failed and never will. The husbandman commits the seed to the ground with an active faith in following those promises of God. While the Earth remaineth, “Seed Time and Harvest Cold and Heat, Summer and winter, and Day and Night shall not cease.” Upon “Seed Time and Harvest” revolve the entire circle of human activities. All the commerce of the world, all the vast varieties of manufactories, all mechanical pursuits, all the great mining interests, all the arts and sciences, and all the productive efforts of man are dependent upon “Seed Time and Harvest.” Really this title of a modest, unpretending, youthful periodical is one of remarkable significance; its very name invites the reader’s thoughtful attention.

Amid so many and older issues of like papers by long established houses, it requires a manly faith, a rigid nerve “a plucky grit,” and an abiding self-confidence to begin such an undertaking. With such elements however, for the foundation, success is already assured; in fact the harvest from such deep planting is already ripening. The editor and publisher of this interesting and instructive Quarterly, is a “self-taught” self-made young man; a graduate of the old farm homestead school, from which so many ploughed their furrows to wealth, power and distinction. “What has been done,” said this farm boy, “can be done again,” and “I’ll try,” sent him to study the fallible books of men; and practice in the infallible book of nature. Brains and muscle, energy, perseverance and will force were consecrated for the attainment of a lofty and laudible ambition, before which opposing obstacles melt-

ed like snow in a meridian sun. In this chosen field of research and investigation new discoveries of great value to the agricultural and gardening interests, were the fruits of years of patient toil and experience. Instead of years of monopolizing such fruits exclusively, this young Editor has lately published the results of his efforts, together with the cream of his reading and practice, in a hand book of intrinsic value to every man with a small or large lot. It is written in a style of good common sense, telling just what you want to know, just how and what to do, as plainly as he would show you if personally present. All in words few, short, sharp and to the point.

The illustrated How to make a hot-bed without manure, is one of the valuable items among others, that enhances its interest and worth to any person ten-fold beyond the price.

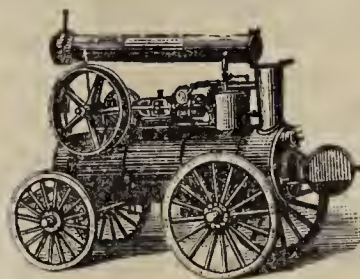
The business of plants, seeds, and flowers having grown beyond advertising space in the newspapers, the “SEED TIME AND HARVEST” was born from a necessity of communicating with the thousands of rapidly increasing patrons and friends, not otherwise accessible. Here are recorded further investigations as well as current and accumulating knowledge to tillers of the ground; with later discoveries and improvements all over the world. Brief catalogues are also inserted, of seed that a man may be sure of growing without failure. Of this we can speak from knowledge and experience.

The motto of this newly established seed-house seems to be sterling honesty, faithful representation, and guarantee of purity in name and strain.

With a reputation to make; with merit as the fulcrum, and integrity as the lever, the SEED TIME AND HARVEST will soon be raised to a Monthly, thence a Weekly, and take its place among the great forces that are illuminating the toiling millions with light and knowledge.

**J. T. A.**

**Cincinnati Station D. March 23, 1881.**



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State where you saw this.



# Cabbage and Celery PLANTS!

A great specialty of our business has for years been the production and sale of Cabbage, Celery and other Vegetable Plants, and we shall continue to keep them in large supply. By our system of packing we box and ship them for long distances by express, and market gardeners and planters will often find it cheaper to purchase their supply from us than to undertake to grow them in small quantities. At the very low rates at which we furnish healthy, stocky plants a smart man can in almost any locality make a handsome profit by collecting orders and sending them to us. We invite correspondence from any who may feel inclined to do this.



## Cabbage Plants.

These we sow *by the acre* and actually have "millions for defense." The seeds are sown in the open ground in drills far enough apart so that they grow short, stocky, and with an abundance of fine fibrous roots. The first sowings are ready for transplanting about June 1st and subsequent plantings are made at intervals so that we have plants ready for setting at all times until August.

**Varieties.** For earliest use and also for very late plantings we sow and recommend the *Winnigstadt*. This produces very hard pointed heads and may be set 3 by 1½ feet, when nearly 10 000 plants may be set on an acre. It is very sure to head even on poor or sandy soil and is not injured by the cabbage worms.

*Fottler's Drumhead*. This is in season about half way between the *Winnigstadt* and *Late Flat Dutch*. It produces very large, flat, solid, white heads on a short stump, and for all purposes is becoming one of the most popular varieties. The demand for it is rapidly increasing as it becomes better known. We shall sow more of it than any other variety and can fill orders by the hundred thousand if wanted.



*Late American Drumhead.* This is a little later than Fottler's and is a very fine variety for fall and winter use.

*Premium Flat Dutch.* Better known perhaps and more extensively grown than any other variety. For winter use the plants are set from June 20 to July 20, though if to be set here later than July 4th I should prefer setting an earlier variety.

*Red Dutch and Red Drumhead.* These are grown and used for pickling being of a bright red color. They differ only in shape. Many other sorts including the *Drumhead Savoy* are grown in small quantities the demand for them not being large.

**Prices.** By mail, per hundred 40 cents. By express, 1000, \$2.00. 5000 or over at \$1.50 per thousand. This includes packing and delivery to express office here.

## Celery Plants.

We find that the demand for Celery is rapidly increasing and we have this season greatly increased our seed-beds to keep pace with the growing demand for plants.

Celery makes but little growth before the cool fall months, consequently the demand for plants does not come as early as for cabbage, and we do not commence shipping them before about June 20th.

**Varieties.** *Crawford's Half Dwarf* is now the most popular variety and we are growing it more extensively than any other. It has a rich nutty flavor and great vigor of growth, is very solid and fine.

*La Plume Chestnut.* A new variety of dwarf white solid celery worthy of trial.

*Dwarf White Solid.* This has been for years a popular variety for market.

*Boston Market.* A favorite with many for home use. The stalks branch and grow looser than most sorts.

*Giant White Solid.* The tallest growing variety, and consequently more difficult to bleach than others, but produces a heavier crop.

**Prices.** By mail, per 100 50 cents. By express, 1000 \$2.50. 5000 or over at \$2.00.

All orders will be acknowledged when received and the plants shipped as soon as possible afterward, usually the following day unless the order is received on Friday when we wait till the following Monday.

### Other Plants.

We can also supply Cauliflower Plants at 50 cents per 100 \$4.00 per 1000. Tomatoes, (transplanted.) 30 cents per dozen, \$2.00 per hundred. Peppers, 20 cents per dozen, \$1.00 per 100. Sweet Potatoes, 30 cents per 100, \$2.50 per 1000. If by mail add 20 cts. per dozen to the above prices for postage.

**Location.** *La Plume* is located on D. L. & W. R. R., twelve miles north of Scranton, Pa. We are six hours and a half from N. York city, eight hours from Philadelphia, and two from Binghamton N. Y., with direct line to each.

All shipments by freight or express are made in the D. L. & W. Co., which also reaches Oswego, Syracuse, Utica and Ithaca, N.Y., Easton, Wilkesbarre, Bloomsburg and Northumberland, Pa., and many towns in N. J.

Parties ordering shipments will please give the route by which they can most readily reach any of the above places.

**N. B.** Always give us the name of the express line through which you wish your goods to come, so that we may know which way to send packages most directly. Attention to this may save you some extra freight bills.

**Terms.** Our terms are cash. Remit by Registered Letter, or P. O. Money Order, (drawn on Scranton, Pa.), One Dollar and under may safely be sent in a common letter, if plainly addressed.

Address all communications to ISAAC F. TILLINGHAST;

LA PLUME, LACK'A Co., PA,



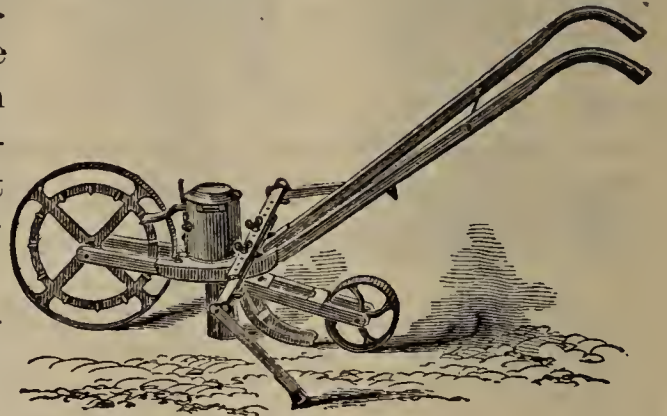
## Matthew's Garden Seed Drill.

THE MATTHEWS' GARDEN SEED DRILL is now everywhere acknowledged to be the most perfect and reliable drill in use for planting all kinds of vegetable seeds. It always gives the best satisfaction and never gets out of order.

Its latest improvement is an INDICATOR, with the names of different varieties of seeds on it, which regulates the change from one kind of seeds to another with ease and accuracy. It is the simplest and best arrangement yet conceived. No other drill has it. Price \$12.00.

MATTHEWS' HAND CULTIVATOR is a most valuable improvement for weeding between row-crops and elsewhere. It spreads from six to fourteen inches, and is so easily operated that a boy can do as much work with it as six men with hoes. Price, \$6.50.

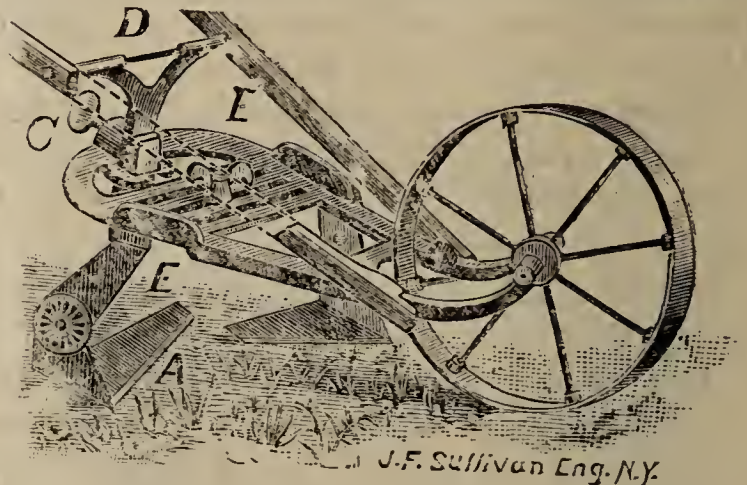
MATTHEWS' COMBINED DRILL AND CULTIVATOR is a very perfect little implement, and performs the work for which it was designed in a very satisfactory manner. Price, \$12.



## Ruhlman's Hand Cultivator.

Without doubt the best tool for working among Onions, Carrots, and other close planted vegetables. A great help for the Onion grower, and much preferable to any other cultivator.

We will ship from here, or from Factory at Lockport, N. Y. for \$5.50.



CHRYSANTHEMUM.



NARCISSUS.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**THE COUNTRY GENTLEMAN** properly stands at the head of the list of all agricultural journals for sterling merit and solid practical value. We have an uninterrupted file of some 20 volumes and would not take first cost for them today. Weekly, \$2.50 per year. L. Tucker & Son, Publishers, Albany, N. Y.

**ARTHUR'S HOME MAGAZINE**.—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows better as it grows older.

**DEMOREST'S MONTHLY**, devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**PETERSON'S MAGAZINE**. Chas. J. Peterson & Co., Philadelphia, comes again with its monthly greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

**LIPPINCOTT'S MAGAZINE**. J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PRAIRIE FARMER**. A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 34 Park Row, New York.

**VICK'S MONTHLY MAGAZINE**, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**THE GARDENER'S MONTHLY AND HORTICULTURIST**. Edited by Thos. Mehan and published by Charles H. Marot at Philadelphia Pa., at \$2.10 per year. It gives full instructions in the science and practice of every branch of gardening.

**THE AMERICAN CULTIVATOR**. Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE FARMING WORLD**. We earnestly advise every man who reads for knowledge and works for money to at once send 80 cents for **THE FARMING WORLD**, for 1881. It is invaluable alike as a source of information and revenue, and is actually paying every dollar of this year's income to its club-raisers! Office: The great Studebaker Wagon Works, South Bend, Ind.

**THE FARM JOURNAL**, 144 North Seventh St., Philadelphia Pa. Monthly; 16 pages; 50 cents per year, or only 25 cents in clubs. If you are not acquainted with this Journal just send your name for a sample copy and I think you will become a subscriber.

**The Housekeeper**, Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**THE HERALD OF HEALTH**. Wood and Holbrook, 15 Laight St., New York. One of the oldest and best sustained health publications issued. Has an excellent corps of eminent writers who strive to elevate the mind as well as strengthen the bodies of mankind.

**HALL'S JOURNAL OF HEALTH**. New York. This publication differs in the fact that it is composed entirely of short and concise editorial articles upon the most common causes of loss of health, and best methods of regaining it. Ought especially to be read by the young.

**THE AMERICAN BEE JOURNAL**. Weekly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$2.00 per year.

**THE SCIENTIFIC NEWS**, published bi-weekly by Mr. S. H. Wales & Son, N. Y., should be in the hands of every mechanic. It is devoted to Science, Arts, Inventions, Patents, Shop and Household economy. It is finely illustrated. \$1.00 per year.

**GLEANINGS IN BEE CULTURE**, monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

**AMERICAN RURAL HOME**. A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

**THE WEEKLY WITNESS**. John Dougal & Co., New York. Contains News of the Day, Prices Current, Financial Reports, Spirit of the New York Daily Press, Home Department, General Correspondence, also Departments for Agriculture, Temperance, Sabbath School, Religious Reading, Stories &c. It gives more reading matter than any other religious weekly.

**The Poultry Monthly**, published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

**THE LADIES' FLORAL CABINET** is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.

**THE AMERICAN AGRICULTURIST** Orange Judd Company, Publishers, 245 Broadway, New York. Every Family without Exception, in City, Village and Country, will find it highly useful to constantly read the American Agriculturist. It abounds in plain, practical, reliable information, most valuable for In-door as well as Out-door work and comfort, and its 800 to 1,000 Original Engravings in every volume are both pleasing and instructive. In this respect it is preeminent and stands alone, and it should have a place in every Household, no matter how many other journals are taken. Its Illustrated Department for Youth and Children contains much information as well as amusement. Its Humbug exposures are invaluable to all classes, The cost is very low. Only \$1.50 from now to the end of 1881, or four copies for \$5.00. Single numbers, 15 cts. One specimen 6 cts. Take our advise and subscribe now for volume 40 (1881).



# Isaac F. Tillinghast's

PRICE-LIST OF SELECT

VEGETABLE AND FLOWER SEEDS,

For 1881.

ANY of the following Seeds will be sent by mail or express, free of all charges, to any address in the United States, upon receipt of the prices named below, except Peas, Beans, and Corn ordered in quantities greater than pints. We think we have made our prices as low as we ought to accept for Seeds of so fine a quality as we know these to be. In comparing our prices with those of other growers please note the following points: 1st, We warrant ours to be fresh, pure and reliable, to the extent that we refill all unsatisfactory orders. 2d. Quarter pounds and in most cases single ounces are supplied at pound rates. A saving of 25 per cent. can be made here. 3d, We prepay postage and deliver free. 4th. Every person who purchases from this list to the amount of \$1., gets Seed-Time and Harvest free for one year.

	Pkt.	Pint.	Peck.
<b>Beans.</b>			
Early Feejee.....	\$0.10	\$0.30	\$1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	15	40	3.00
Ferry's Golden Wax.....	15	40	3.00
Large White Marrowfat.....	10	25	1.50
<b>Pole Beans.</b>			
Concord.....	10	30	2.00
Kentucky Wonder (New)...	20	—	—
German Wax.....	10	30	2.00
Dreer's Improved Lima.....	15	40	—
<b>Corn.</b>			
Amber Cream, New, (page 13)	15	50	—
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	25	1.00
Triumph.....	10	30	1.25
New Egyptian.....	10	30	1.25
Red and White Rice Pop-Corn	10	35	—
Reynolds's Improved Field .	10	25	0.75
<b>Peas.</b>			
Philadelphia Extra Early ...	10	30	2.00
Early Kent.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
McLean's Blue Peter.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	25	1.50
<b>Asparagus.</b>	Pkt.	Oz.	Lb.
Conover's Colossal.....	05	8	0.75
<b>Beets.</b>			
Early Egyptian.....	05	10	1.00
Bassano.....	05	08	.75
Dewing's Red Turnip.....	05	08	.75
Long Smooth Blood.....	05	08	.75
<b>Mangel Wurzel Beets.</b>			
Yellow Globe.....	05	08	.65
Norbitan's Giant.....	05	08	.65
Webb's New Kinver.....	05	08	.75
Imperial Sugar.....	05	08	.65
<b>Broccoli.</b>			
Early Purple Cape.....	10	60	—
White Cape.....	10	60	—
Walcheran.....	10	60	—

<b>Brussels Sprouts.</b>	Pkt.	Oz.	
New Dwarf.....	05	25	
<b>Cauliflower.</b>			
Lackawanna (New).....	20	3.00	
Early Snowball, New, (page 16)	20	3.00	
Earliest Dwarf Erfurt.....	20	1.25	
Early London.....	15	.75	
Nonpareil.....	20	1.25	
Lenormand's Short Stem....	20	1.25	
<b>Cabbage.</b>	Pkt.	Oz.	Lb.
Berkshire Beauty, New,.....	25		
True Jersey Wakefield.....	10	35	5.00
Henderson's Early Summer..	10	40	6.00
Newark Early Flat Dutch....	05	25	4.00
Early Winningstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	20	3.00
Premium Flat Dutch.....	05	20	3.00
Late American Drumhead....	05	20	3.00
Marblehead Mammoth.....	05	20	3.00
Perfection Drumhead Savoy..	05	20	3.00
Red Drumhead,.....	05	20	3.00
<b>Celery</b>			
La Plume Chestnut, New,....	20	1.00	
Crawford's Half Dwarf.....	05	25	4.00
Carter's Dwarf Crimson.....	15	40	
New Golden Dwarf.....	15	40	
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	35	5.00
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	
<b>Carrot.</b>			
Early Short Horn.....	05	8	1.25
Improved Long Orange.....	05	8	1.25
Danvers Orange.....	05	8	1.25
White Belgian.....	05	8	1.00
<b>Cucumber.</b>			
Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	8	1.00
Early Russian.....	05	8	1.00
Early White Spine.....	05	8	1.00
Green Prolific.....	05	8	1.00
Long Green.....	05	8	1.00
<b>Chicory.</b>			
Large Rooted.....	05	8	1.00
<b>Cress.</b>			
Curled, or Peppergrass.....	05	8	1.00
Water Cress.....	10	60	
<b>Egg Plant.</b>			
Long Purple.....	10	50	
Improved N. Y. Purple.....	10	50	
<b>Kohl Rabi.</b>			
Large Purple.....	10	35	
Early White Vienna.....	10	35	
<b>Lettuce.</b>			
Black Seeded Simpson, New,..	10	60	
Hanson.....	05	30	
Victoria.....	05	30	
Early Curled Simpson.....	05	30	
True Boston Market.....	05	30	
White Seeded Tennisball.....	05	30	
Black Seeded Tennisball.....	05	30	
Drumhead, or Malta.....	05	30	
<b>Leek.</b>			
Large Scotch Flag.....	05	30	
<b>Musk Melon.</b>			
Nutmeg.....	05	8	1.00
Skillman's Netted.....	05	8	1.00
Ward's Nectar.....	05	8	1.00
Improved Yellow Cantaloupe	05	8	1.00
Green Citron.....	05	8	1.00
Pine Apple.....	05	8	1.00
Jenny Lind.....	05	8	1.00
Surprise, [New].....	10	30	
Bay View, New,.....	10	35	
<b>Water Melon.</b>			
Phinney's Early.....	05	8	1.00
Striped Gipsej.....	05	8	1.00
Ice Cream.....	05	8	1.00
Mountain Sweet.....	05	8	1.00
Ferry's Peerless.....	05	8	1.00
Citron, (for preserving,).....	05	8	1.00



## Mustard.

White French.....	05	05	6
Black American.....	05	05	60

## Onion.

New Onion Seeds are extremely scarce this season and only those who buy early will be sure to get them. I have a good supply of genuine Yellow Danvers and Red Wethersfield. In ordering say which, if either, of these I may substitute if others are all gone.

Extra Early Red Globe.....	10	40	6.00
Yellow Danvers.....	10	25	4.00
Red Wethersfield.....	10	25	4.00
Large Yellow Dutch.....	10	25	4.00
White Globe.....	10	40	6.00
White Portugal.....	10	25	4.00
New Queen.....	10	35	5.00

## Parsnip.

Hollow Crowned.....	Pkt. 05	Oz. 08	Lb. 0.80
Smooth Dutch.....	05	08	0.80

## Parsley.

Extra Fine Curled.....	05	15
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## Pepper.

Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne.....	10	25	4.00
Spanish Monstrous (New)....	10		

## Pumpkin.

Golden Marrow, New,.....	05	15	2.00
Large Cheese.....	05	08	0.80
Sugar. (Fine for pies,).....	05	20	
Connecticut Field.....	05	05	0.40

## Radishes.

Early Scarlet Turnip.....	05	08	1.00
Early White Turnip.....	05	08	1.00
Long Scarlet Short-Top.....	05	08	1.00
Early Scarlet Olive.....	05	08	1.00
French Breakfast.....	05	08	1.00
China Rose Winter.....	05	08	1.00
Black Spanish Winter.....	05	08	1.00
California Mammoth White..	05	10	1.50
Grey Summer Turnip.....	05	10	1.50
Golden Yellow Summer (New)	05	10	1.50

## Salsify, or Vegetable Oyster.

White French.....	05	20	3.00
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## Spinach.

Round Leaved.....	05	05	0.50
Monstrous Viroflay.....	05	08	0.80

## Squash.

Low's Essex Hybrid, New,....	15	30	
Early White Bush.....	05	08	1.00
Summer Crookneck.....	05	08	1.00
Hubbard.....	05	10	1.25
Marblehead.....	05	10	1.25
Butman, (New,).....	05	10	1.25
Cocoanut, (New,).....	10	30	
Mammoth.....	10	30	

## Tobacco.

Connecticut Seed Leaf.....	10	30	
Kentucky Broad Leaf.....	10	30	

## Turnip.

New White Egg.....	05	15	1.50
Early White Dutch.....	05	08	0.80
Purple Top Strap Leaf.....	05	08	0.80
Long White Cow Horn.....	05	08	0.80
Yellow Aberdeen.....	05	08	0.80
Yellow Globe.....	05	08	0.80
Golden Ball.....	05	08	0.80

## Rutabaga, or Swede Turnip.

White French, or Sw't German	05	08	80
Skirving's Purple Top Yellow	05	08	80
Brill's American Yellow.....	05	10	1 50
Shamrock Swede, Yellow.....	05	08	80

## Tomato.

Essex Hybrid, New.....	Pkt. 15	Hf.-Oz. .30	Oz. .60
Ford's Alpha, New,.....	15	.30	.60
Acme, [New,].....	05	.20	.40
Red Chief, [New,].....	05	.25	.50

## Tomato. Continued. Pkt. Hf-oz. Oz.

Red Currant.....	05	.25	.50
Paragon.....	05	.25	.50
Canada Victor.....	05	.15	.30
Conqueror.....	05	.15	.30
Hathaway's Excelsior.....	05	.15	.30
Trophy.....	05	.15	.30
Arlington.....	05	.15	.30
Green Gage.....	05	.15	.30
Golden Rural, New,.....	05	.20	.40
Saint Paul, (New).....	15	.30	.60

## Herb Seeds. Pkt. Oz. Pkt. Oz.

Coriander.....	05	.20	Dill.....	05	.25
Horehound.....	10	50	Sage.....	05	.20
Summer Savory... ..	10	30	Saffron....	05	.25
Sweet Marjoram..	10	40	Lavender .	10	.30
Caraway.....	05	15	Sweet Basil	10	.40
Sweet Fennel.....	05	.20	Thyme....	10	.50

## Potatoes.

Although the potato crop, generally, was nearly a failure in this section the past season, most of our improved varieties yielded good returns, and we offer a stock fully up to the average in quality. At the following prices pounds will be sent post paid by mail, and larger quantities by express or freight with no extra charge for packing. Orders will be booked as received and filled as soon as the weather will permit.

	Lb.	Peck.	Bush.	Bbl.
The "Belle,".....	.50	1.25		
La Plume Triumph,..	.50	.75	2.50	7.00
Pride of America,..	.50			
Saint Patrick,.....	.50	.75	2.	7.00
Late Ohio,.....	.50	.75		
Watson's Seedling,..	.50			
Beauty of Hebron... ..	.50	.50	2.50	5.00
Early Ohio.....	.50			
Mammoth Pearl.....	.50			
Burbank,.....	.50	.50	1.50	5.00

## Grass Seeds.

Timothy, Clover, &c., at Market Rates.



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation. They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

EXPLANATION.—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—  
a—annual. b,—biennial. c.—climber. e.—everlast-



## SEED-TIME AND HARVEST.

ing or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a. ....	.05
Acroclinium album, white, a. e. ....	05
..... roseum, rose, a. e. ....	05
Adonis vernalis, scarlet, a. ....	05
..... autumnalis, crimson, a. ....	05
Ageratum Mexicanum, blue, a. ....	05
..... Wenlandii, compactum, white, a. ....	.10
Agrostemma viscaria, cæli rosa p. ....	.05
..... alba, white, p. ....	05
..... atro-sanguinea, crimson, p. ....	05
Alyssum maritimum, sweet, white, a. ....	05
Amaranthus caudatus, crimson, a. ....	05
..... melancholicus ruber, d'k crimson. ....	05
..... salicifolius, scarlet and purple, a. ....	.15
Ammobium alatum. (Immortelle,) white, e. ....	.05
Anemone coronaria, p. ....	.15
Antirrhinum majus, a. 9 colors mixed ....	.0
..... dwarf, a. 10 colors mixed, ....	.05
Aquilegia hortensis, double, m. p. ....	.10
..... chrysantha, new golden-spurred ....	.10
..... finest varieties mixed ....	.15
Aster, pæony-flowered, extra fine, m. a. ....	.10
..... half-dwarf pyramidal bouquet, m. a. ....	.10
..... crown, or cocardeau, m. a. ....	.10
..... quilled German m a. ....	.10
..... fine mixture of the above ....	.05
Balsam camellia-flowered double m a. ....	.10
..... dwarf double m a. ....	.10
..... double fine mixed varieties m a. ....	.05
Calceola. (Tassel Flower) scarlet and yellow a. ....	.05
Calandrina grandiflora elegans rosy pink a. ....	.05
Calceolaria scabiosa-folia new, p. ....	.1
Callirhoe pedata nana, purple crimson, a. ....	.05
Campanula trachelium, double, b. ....	.10
..... nobilis alba b. ....	.10
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Candytuft fragrant m a. ....	05
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Carnation, double picotee, m a. ....	.15
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Celosia cristata, —cockscomb— 6 colors mixed ....	05
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..... crimson, gold and fire-feathered, m a. ....	.1
Centaurea Babylonia, new p. ....	.1
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Centranthus macrosiphon m a. ....	05
Chrysanthemum carinatum, m a. ....	05
..... double white new ....	05
..... Indicum grandiflorum, m p. ....	.10
Clarkia pulchella m a. ....	.1
..... elegans, new double, pure white ....	.15
Cobæa scabrens, purple e p. ....	.10
Coix lachrymæ, Job's Tears, ....	05
Colutea floribunda ....	05
Collinsia multicolor marmorata, a m. ....	05
Convolvulus minor, m a. ....	05
..... major, Morning-glory, m a. ....	05
Coreopsis tinctoria m a. ....	05
Cucurbita, Ornamental gourds, m a. ....	05
Datura fatuosa, double purple a. ....	05
..... white a. ....	05
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Delphinium (Larkspur,) dwarf double, m a. ....	05
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Eschscholtzia Californica, yellow a. ....	05
..... tenuifolia, new a. ....	05
Eutoca Wrangeliana, low blue annual ....	05
Geranium, zonale and inquinans mixed, a p. ....	.15
Gilia tricolor, blue, white and lilac m a. ....	05
Globe Amaranth 6 colors m e a. ....	05
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Helichrysum lucidum m a e. ....	05
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..... Californicus double a. ....	05
Helipterum anfordii, yellow everlasting, ....	.10
Hollyhock Chinese double a. ....	.10
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Ipomœa Quamoclit, Cypress vine m a. ....	05
Jacobæa, Senecio elegans double m a. ....	05
..... dwarf double m a. ....	05
Lantana hybrid m. ....	05
Linaria bipartita flora albo a. ....	05
..... purpurea, snapdragon a. ....	05
Linum grandiflorum roseum a. ....	05
Lobelia Erinus grandiflora sup rba. ....	05
Lupinus, Dinnettii superbus new a. ....	05
..... tricolor elegans new a. ....	05
..... polyphyllus mixed p. ....	05
Lychnis chalc donica, white and scarlet m p. ....	05
..... Haageana hybrida new p. ....	.10
Marvel of Peru hybrid, Four o'clock, m a. ....	05
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Marigold African double m a. ....	05
..... French m a. ....	05
Mignonette, R seda odorata sweet-scented a. ....	05
..... large-flowering a. ....	05
Mesembrianthemum, Ice plant, a. ....	05
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..... major, largest variety a. ....	05
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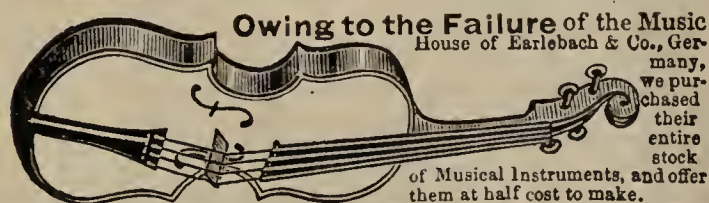
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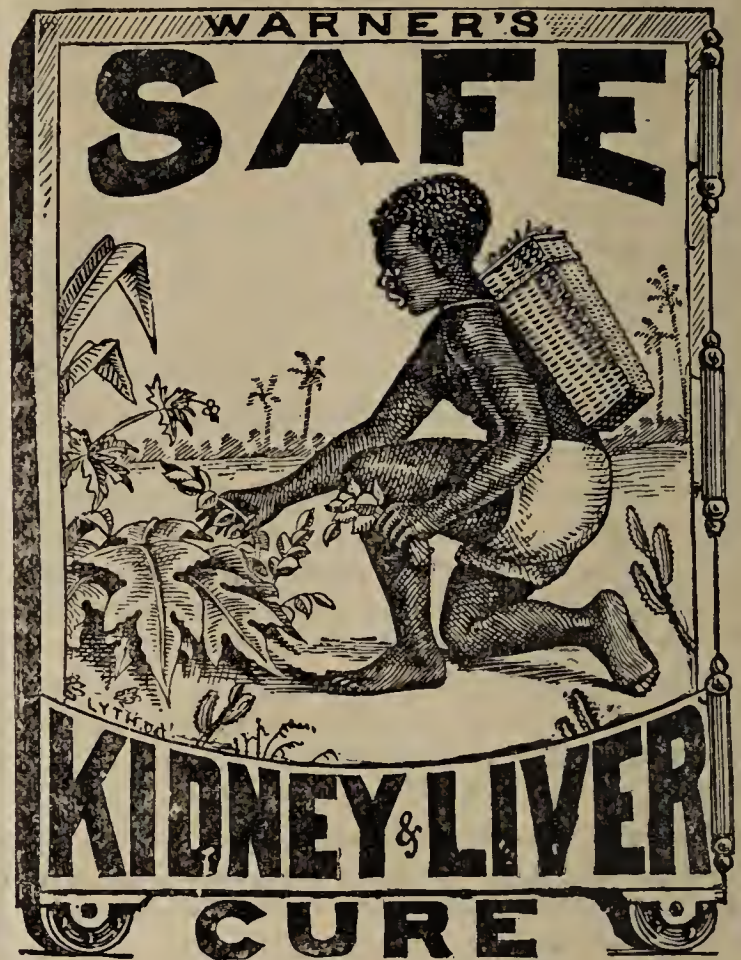
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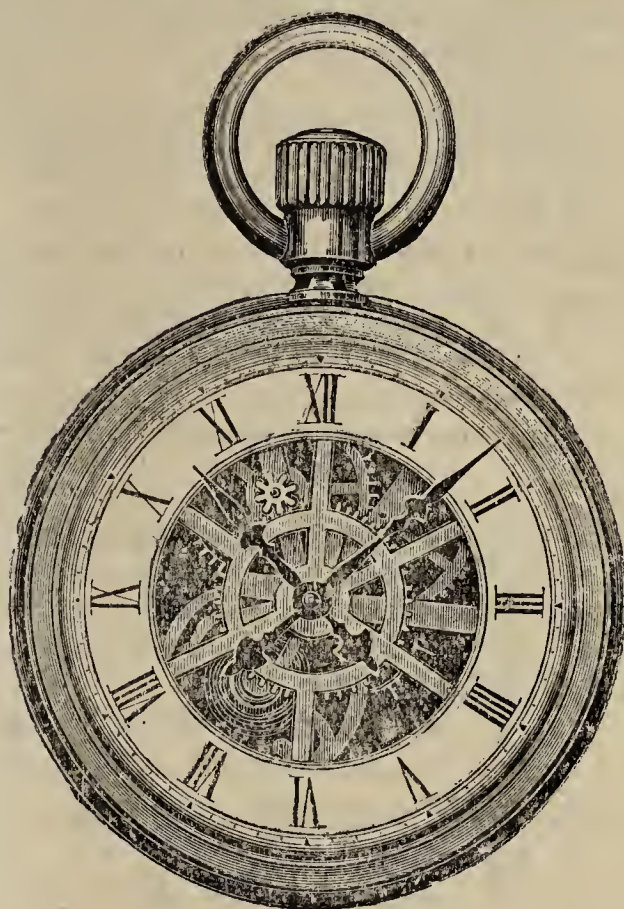
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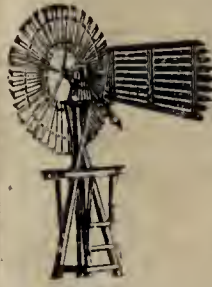
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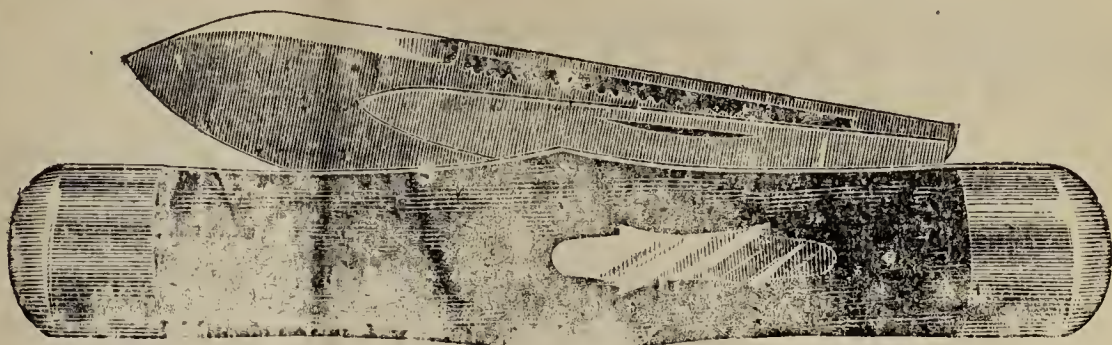
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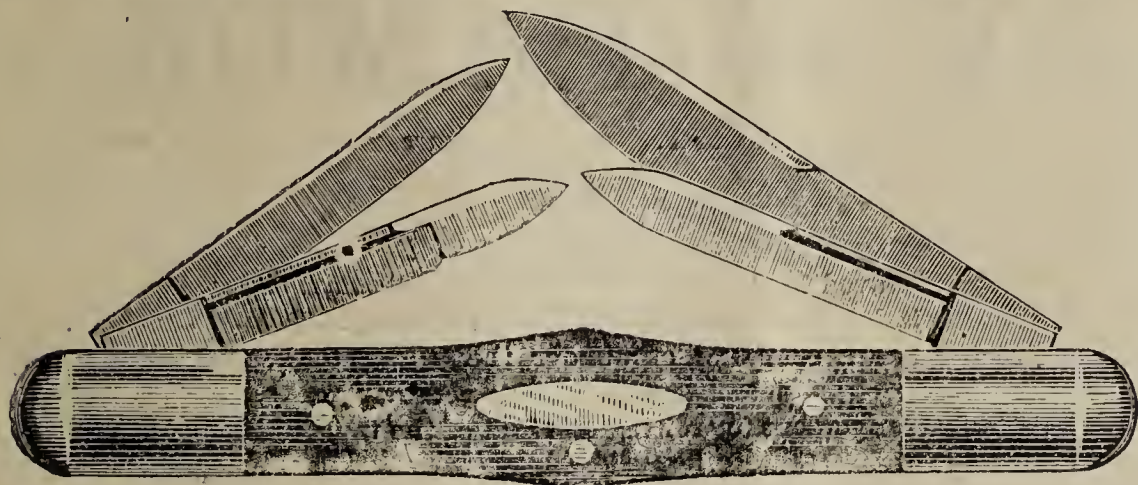
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Number Seven.

Seed-Time and Harvest.

1881.



(NEMOPHILA MACULATA.)

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A Quarterly Agricultural and Horticultural  
Magazine.

Seed-Time and Harvest Publishing Co.,

LA PLUME, LACK'A CO., PA.

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NO 7.

SUMMER,

1881.

## Shelling Peas.

**P**INK SUN-BONNET hanging down;  
O'er a fair face half a frown;  
Basket tipped up on her knees—  
Maiden busy shelling peas.

LOOKING o'er the garden wall,  
Youthful figure, straight and tall,  
Lounges with a careless grace,  
Straw hat pushed off sunny face—

AND a pair of lazy eyes  
Look with cool and calm surprise  
On the fingers plump and white—  
Shelling peas with all their might.

“SUCH a busy little bee  
Puts to shame poor thriftless me!”  
And a yawn, half made, half real,  
To these words gives sign and seal.

PINK-SUNBONNET nods assent,  
Fingers give the pods a rent,  
As though saying, “Were these you,  
I'd soon show you what I'd do!”

“So you think I OUGHT to be  
Quite ashamed of this ‘poor me,’  
Who bewails his lazy lot  
And to better it tries not?”

PINK-SUNBONNET gives a nod,  
Cracks a fresh new glistening pod,  
Which, exploding, seems to say,  
Answering for her, boldly, “yea.”

LAZY-EYES dart a quick look,  
Naught but silence will they brook;  
Bending closer they peer down  
'Neath the bonnet's clumsy crown.

‘I WOULD toil and strive each hour,  
Working with a will and power,  
Had I aught TO WORK HARD FOR—  
Some sweet bright reward in store.’”

PINK-SUNBONNET laughs out now,  
And the face is all aglow,  
As she answers, pointing down  
To her basket with a frown—

“Lots of shell and little peas;  
Words are well and sometimes please;  
But words are SHELL—its FRUIT we need:  
Talk is easy—prove by deed!”

QUICK the lazy eyes flash fire,  
And the owner bends down nigher,  
Till the color in his cheeks  
Fades and flickers as he speaks—

“AH, but 'tis within the shells  
That the perfect fruit first dwells:  
ALL my words I'll prove quite true,  
If my REWARD may be you!”

PINK-SUNBONNET 's still and dumb;  
Busy fingers quite o'ercome;  
Drop the basket off the knees,  
And down roll the half-shelled peas.

“SEE, you work in vain alone—  
Without HELP naught can be done;  
May I then through our lives be  
HELPMATE to you loyally?”

Two brown hands clasp fingers white;  
Lazy-eyes grow clear and bright;  
Pink-sunbonnet 'gainst her will,  
Looks up with cheeks pinker still,

AND again it gives a nod—  
Then a noise! Was it a pod?  
SOMETHING sounded. As you please,  
It all happened—shelling peas.



## Some Good Vegetables.

BY DOCTOR DORAN.

THE cabbage has had a singular destiny; in one country an object of worship, in another, of contempt. The Egyptians made of it a god, and it was the first dish they touched at their repasts. The Greeks and Romans took it as a remedy for the languor following inebriation. Cato said that in the cabbage was a panacea for the ills of man. Erasistratus recommended it as a specific in paralysis; Hippocrates accounted it a sovereign remedy, boiled with salt, for the colic; and Athenian medical men prescribed it to young nursing mothers who wished to see lusty babies lying in their arms. Diphilus preferred the beet to the cabbage, both as food and as medicine.—in the latter case, as a vermifuge. The same physician extols mallows, not for fomentation, but as a good edible vegetable, appeasing hunger and curing the sore throat at the same time. The asparagus, as we are accustomed to see it, has derogated from its ancient magnificence. The original “grass” was from twelve to twenty feet high, and a dish of it could only have been served to the Brobdignagians. Under the Romans, stems of asparagus were raised of three pounds’ weight,—heavy enough to knock down a slave in waiting with. The Greeks ate them of more moderate dimensions, or would have eaten them, but that the publishing doctors of their day denounced asparagus as injurious to the sight. But then it was also said that a slice or two of boiled pumpkin would re-invigorate the sight which had been deteriorated by asparagus. “Do that as quickly as thou should asparagus!” is a proverb descended from Augustus, and illustrative of the mode in which the vegetable was prepared for the table.

A still more favorite dish, at Athens, was turnips, from Thebes. Carrots, too, formed a distinguished dish at Greek and Roman tables. Purslain was rather honored as a cure against poisons, whether in the blood by wounds, or in the stomach, from beverage. I have heard it asserted in France, that if you briskly rub a glass with fingers which have been previously rubbed with purslain,

or parsley, the glass will certainly break. I have tried the experiment, but only to find that the glass resisted the pretended charm.

Broccoli was the favorite vegetable food of Drusus. He ate greedily thereof, and as his father, Tiberius, was as fond of it as he, the master of the Roman world and his illustrious heir were constantly quarreling, like two clowns, when a dish of broccoli stood between them. Artichokes grew less rapidly into aristocratic favor; the *dictum* of Galen was against them; and, for a long time, they were only used by drinkers, against headache, and by singers to strengthen their voice. Pliny pronounced artichokes excellent food for poor people and donkeys! For nobler stomachs he preferred the cucumber,—the Nemesis of vegetables. But people were at issue touching the merits of the cucumber. Not so regarding the lettuce, which has been universally honored. It was the most highly esteemed dish of the beautiful Adonis. It was prescribed as provocative to sleep; and it cured Augustus of the malady which sits so heavily on the soul of Leopold of Belgium.—*hypochondriasis*. Science and rank eulogized the lettuce, and philosophy sanctioned the eulogy in the person of Aristoxenus, who not only grew lettuces as the pride of his garden, but irrigated them with wine, in order to increase their flavor.

But we must not place too much trust in stories either of sages or apothecaries.—These pagans recommended the seductive, but indigestible, endive, as good against the headache, and young onions and honey as admirable preservers of health, when taken fasting; but this was a prescription for rustic swains and nymphs,—the higher classes, in town or country, would hardly venture on it. And yet the mother of Apollo ate raw leeks, and loved them of gigantic dimensions. For this reason, perhaps, was the leek accounted, not only as salubrious, but as a beautifier. The love for melons was derived, in similar fashion, probably, from Tiberius, who cared for them even more than he did for broccoli. The German Cæsars inherited the taste of their Roman predecessor, carrying it, indeed, to excess; for more than one of them submitted to die after eating melons, rather than live by renouncing them.



I have spoken of gigantic asparagus; the Jews had radishes that could vie with them, if it be true that a fox and cubs could burrow in the hollow of one, and that it was not uncommon to grow them of a hundred pounds in weight. It must have been such radishes as these were employed by seditious mobs of old, as weapons, in insurrections, In such case a rebellious people were always well victualled, and had peculiar facilities, not only to beat their adversaries, but to eat their own arms. The horse-radish is, probably, a descendant of this gigantic ancestor. It had, at one period, a gigantic reputation. Dipped in poison, it rendered the draught innocuous, and, rubbed on the hands, it made an encounter with venomous serpents mere play. In short, it was celebrated as being a cure for every evil in life,—the only exception being, that it destroyed the teeth. There was far more difference of opinion touching garlic than there was touching the radish. The Egyptians deified it, as they did the leek and the cabbage; the Greeks devoted it to Gehenna,—and to soldiers and sailors. Medicinally, it was held to be useful in many diseases, if the root used were originally sown when the moon was below the horizon. No one who had eaten of it, however, could presume to enter the Temple of Cybele. Alphonso of Castile was as particular as this goddess; and a knight of Castile, "detected as being guilty of garlic," suffered banishment from the royal presence during an entire month.

### Turnips.

**T**HE season for the growth of Turnips is so short that they fit into a garden nicely as a second crop, so that there need be scarcely any vacant spots during the latter part of summer. After the early Potatoes and Peas have been removed, some of the varieties of the Swedish Turnips (another name for improv'd old-fashioned Rutabagas) may be planted as late as the middle of July. They will have ample time, if well hoed, to grow to a good table size. Overgrown Turnips are not desirable for the table, as they are coarse and pithy. Early planted ones



BRILL'S YELLOW RUTABAGA.

are objectionable for the same reasons. There are white and yellow varieties of Swedes, nearly all globe-shaped, the Brill's Improved American, Shamrock, and White French being among the best. All Turnips of the Ruta Baga class should be planted in drills, with the plants from ten to fifteen inches apart and the rows from eighteen to twenty-four.



PURPLE-TOP STRAP-LEAF TURNIP.

The Flat Turnips, of which the Purple Top Strap-Leaf is the best known, as well



as the yellow-fleshed varieties represented by Yellow Aberdeen, Yellow Globe, and the Golden Ball, may be sown until August. The seed may be sown broadcast, but not too thick, or they will not bottom. Wood-ashes are excellent manure for Turnips, and a sprinkling of plaster (ground gypsum) on the young plants will always give them a fine start. In dry weather, an occasional sprinkling with house slops stimulates their growth. A very small plot of ground may be made to yield a large crop of Turnips, which may be useful on the table, and are more nutritious than is generally supposed.

When Potatoes are high, the globe varieties of Turnips, in a measure, take their place, and furnish requisite vegetable food. In dry weather, the seed should be covered at least half an inch deep; when the ground is moist, the seed can be covered sufficiently with a garden rake.

*The American Garden.*

### Blanching Celery.

**W**HILE we have never tried the following method of blanching celery, we think it practicable for small quantities and trust our friends will try the experiment and report results. The article is from the *Albany Cultivator*:

Keep the plants, when taken up, entirely away from earth, if intended for winter blanching. About the middle of November they are taken up on a dry day, and placed in water-tight troughs, or other vessels, in a quite dark cellar, the plants standing erect and closely together. Enough water is poured on the roots to cover them, and the supply is continued through the winter as it evaporates. This constitutes the entire labor. The stalks are gradually and handsomely blanched in the darkness, and many new ones spring up during the winter months, especially if the apartment is not very cold, and these new shoots are remarkable for their delicacy and perfect freedom from any particle of rust, appearing like polished ivory. A small, separate apartment in the cellar, without windows, answers well for this purpose. Boxes, tubs,

or any vessels which will hold a few inches of water may be employed. The plants, as grown in the open ground, need not be earthed up at all, or they may be slightly earthed to bring them into a more compact form if desired. Probably the best way would be to adopt the course which is sometimes employed, of setting out the plants in summer on the level surface of deep, rich soil, eight or ten inches, or a foot apart each way, in order that their close growth may tend to give them a more upright form. They are merely kept clean by hoeing through the season.

—The Sturdevant Bros. of Mass. have for years, made use of a principle in growing and saving seed corn, that ought to be practiced by every farmer in the land. We all know that in raising fine stock of horses, cattle or sheep, it is as necessary to breed from selected males as females, and a neglect to do this will show at once in the progeny. Why not be as careful in growing fruits and grains? Set off a plot of ground on which to grow corn for seed and as soon as it has tasseled out, go through it and cut the tassels which produce the pollen from all the weak and inferior plants. Then in the fall save for seed the earliest and best formed ears and they will be doubly valuable, having been fertilized only by the best and most vigorous. We have no doubt but that our crops of corn would be raised to a much higher standard, were this principle carried out for a few years.

—Millet and Hungarian grass should be cut when young, just after they have fully headed out, to be of much value for feeding. When young and tender cattle will eat it greedily and thrive upon it, but if left till nearly ripe the stalks become woody and are of little more value than oat or rye straw.

—An old gardener says, with regard to cultivating onions, that if care is taken to draw away the earth gradually from the bulbs until they are quite uncovered, and only the fibrous roots are in the earth, you will never have scullions, but very large, sound onions.



### Cabbage Worms Once More.

Frequent inquiries are received as to the best method of protecting Cabbages from the ravages of the Green Worm. Seven or eight years ago these worms were very destructive in this vicinity and many fields were nearly ruined by them, but they are yearly growing less plentiful by reason of their natural parasitic enemies until little attention is now paid to them beyond picking off what few worms are seen when hoeing. In districts which are still badly infested with them, there are several methods in use which are said to be effective. The Country Gentleman has for some years recommended an application of hot water. It is claimed that a sprinkling of water heated to 100 degrees will kill the worms while the plants are not injured by water at less than 130 degrees. Bran or middlings sifted on the plants, while the dew is on, is also said to kill the worms. If our native "hair sparrow" or "chipping birds" could be protected and increased they would prove a most perfect protection. I have known a single pair to capture nearly all the worms on a half acre of cabbages, they seeming to prefer them to any other article of food. It is really surprising to notice how keenly they will observe the presence of a worm. Had our farmers more such friends, they would suffer much less from the effects of the insect enemies.

### Use of Petroleum.

"Petroleum is found to be of benefit to shingles to preserve them, as it enters the pores of the wood at once, and as it hardens, makes it more compact in texture, and also rather less liable to take fire, although when once burning they will of course produce more flame than the wood without it; but a coat of petroleum applied to a shingle roof will make it last several years longer than it otherwise would. Petroleum is also an excellent article to apply to the iron and steel work of farm implements to prevent their rusting when not in use. When any outbuilding, or even your dwelling house is to be painted,

one-half of the expense may be saved by applying a coat of petroleum with a fine whitewash brush, and letting it dry for two or three weeks, put on one coat of paint; by so doing a second coat of paint is rendered unnecessary, and that much money saved."

We have given this a practical test and know that it is sound advice. Our dwelling was painted when built, and gone without repainting for about fifteen years. The paint had fallen off in places, and the siding was badly checked, so that it looked as though a large amount of paint would be absorbed. We sent to Titusville, Pa., for a barrel of crude petroleum. The oil was billed to us at 3 cts. per gallon, or \$1.20. The 40 gallon cask, containing it, cost about \$2.00, and the freight cost us as much as both oil and barrel together. Yet the whole expense was less than \$7.00. The house was given a thorough coating of this on top and sides; and after drying two or three weeks, was followed (except on the roof) with one coat of Averill paint. The petroleum filled the checks and hardened the wood so that one coat of paint only was necessary. Five years have since passed and that painting has proved more durable than the first, being less inclined to scale off than that which was placed upon the naked pine.

According to the editor of the *Gardener's Monthly*, it has been found that water heated to 130 deg. is fatal to all insects that infest plants, even though exposed to it but for an instant, while the immersion of a plant for an instant in water of that temperature does not injure the plant in the least, unless the leaves are very tender from having been grown in the shade. But even then they do not suffer at 120 degrees while the insects seem to be destroyed at about 100 degrees or 110 degrees; so in gardening practice the rule is to recommend the water to be heated to 120 degrees. The practice generally is to turn the plant upside down and dip the plant, but not the pot, for an instant only, in hot water. In use the water has to be carefully tested by a thermometer.



## The Flower Garden.

### The Verbena.

**T**HERE is no class of plants which are superior to the Verbena for bedding-out purposes, or for fancifully shaped beds in the turf, where its brilliant flowers of many hues form a striking contrast with the vivid green of the grass.

The Verbena is a native of Buenos Ayres, and was introduced into England in 1825, but it was not imported into this country until nearly ten years later. Since then, however, it has been a great favorite with all classes and has fully maintained a front rank as a florist's flower. In the last ten years it has gained largely in the size of the tresses and in the stripings and eyes of the flowers.



The Verbena readily adapts itself to all kinds of soil, not being at all particular in its tastes: yet it blossoms most abundantly in a rich but sandy soil, and it revels in the hottest sunshine. It is a plant of the easiest culture, and will grow rapidly either from cuttings or seeds.

Fresh young cuttings make very desirable plants and will blossom continuously for many months, forming

“A rich carpet of unnumbered dyes.”

They are very quickly rooted in light, sandy soil kept moist and warm; but the easiest way for an amateur is to root them in vials of water placed upon the window-shelf or suspended from the sash.

Thus treated, they will strike root in four or five days, and as soon as the tiny white filaments are an inch in length put the cuttings into the open ground, if it is warm enough; or plant them in small thumb-pots for a while, to encourage root-growth, and then plant in the open border where they will make large plants by autumn.

Plants raised from seed, however, will give much better satisfaction than those from cuttings, because they will bloom more abundantly and are not so apt to be attacked by root lice. Plant in light, warm soil, and keep well moistened and under glass. When the second leaves show themselves, transplant into open border or small pots.

Verbenas are not dainty plants as regards soil, yet they will not bloom well in the same bed year after year unless the soil is changed or possesses the wondrous fertility of California gardens. A top-dressing of fine gravel or sand; after the plants have become well established in their beds, will increase their beauty. The sulphate of ammonia is an excellent fertilizer for Verbenas, and, indeed, for all bedding-out plants. Prepare it the night you wish to use it, by dissolving one ounce of it in two gallons of warm water, then sprinkle the plants with it once a week.

The varieties offered for the selection of purchasers are innumerable, and each florist has his own favorites, or those of his own raising or naming.—*Floral Cabinet*.

THE following method of raising young plants of Fuchsias is said to be practiced by cottagers in the west of England. “In the autumn, after the frost has destroyed the foliage, the wood of the present season is cut off close to the ground, and laid like a sheaf of corn in a trench a foot deep. The bundle is covered with a few inches of soil, and here it remains until spring, when a multitude of young shoots may be seen pushing their way through. The soil is then carefully moved, and with a sharp knife a cut is made each side of a joint, and the result is rooted plants enough for the parish. The old stool throws up more vigorously than before, to be served in the same way the following autumn.”



## Jottings and Stealings.

—Radishes are good for those who like them, but not every one who relishes a radish can digest it. We always raise this vegetable, because there are some in every family who crave this crisp, spicy root, and no man should make his own taste a criterion for others. It comes, moreover, so early in the Spring that almost any fresh growth, even an artichoke, is craved. The soil for radishes is rich sand, and if the garden does not furnish such a soil, it can easily be supplied from the highway, the finely pulverized dust of which makes the best kind of radish-bed. The town authorities will not object to the removal of this fine sand, for it is poor material for a road, making dust in a dry time and mud in a wet season. The varieties of radishes are many, but two are enough for an ordinary family—the red turnip for early and the long scarlet for a succession. If any one likes radishes well enough to raise them for Winter use, the black Spanish and the scarlet China are the varieties he wants. It must be said in praise of radishes that they adorn the table, and are specially adapted “to cheat Winter of its gloom,” as Irving puts it.

—A writer in a French horticultural journal relates this suggestive experience: “After sunset I place in the centre of my orchard an old barrel, the inside of which I have previously tarred. At the bottom of the barrel I place a lighted lamp. Insects of many kinds, attracted by the light, make for the lamp, and while circling around it strike against the sides of the barrel, where, meeting with the tar, their wings and legs become so clogged that they fall helpless to the bottom. In the morning I examine the barrel, and frequently take out of it ten or twelve quarts of cockchafers, which I at once destroy.” A few pence’ worth of tar employed in this way will, without any further trouble, be the means of destroying innumerable numbers of these insects, whose larvæ are amongst the most destructive pests the gardener or farmer has to contend against.

—Small fruit growers agree that Raspberries and Blackberries generally do better when set in the fall than spring. They become rooted and start much earlier and consequently make a better growth than spring set plants. The only objection to fall setting is, that upon wet clay or hard pan land, plants set late in the fall are sometimes partially thrown out by the frost in winter. This can be remedied by drawing the earth well up around them before winter sets in and removing it in spring. Another great advantage in fall setting is, that there is so much more time to do it. If put off till Spring the rush and hurry of work may crowd it out entirely and then all will agree that it were better to have attended to it in the Fall. This will apply, with equal force, to fruit trees and plants of all kinds except strawberries which should be set early in Spring, or in August or September at latest.

—It is well known that rain water is better than spring water for promoting the growth of plants; this is from the former containing that which is a necessary ingredient in their formation—namely, ammonia, and which is abundant in liquid nature. The efficacy of this may be soon developed by sprinkling one-half of a grass plot with spring water, in which pounded carbonate of ammonia (about one ounce to the gallon) has been dissolved; the former will keep it alive, but the latter will give it vigor and luxuriance.

—There is now quite a rage to procure and set “potted strawberries.” If you can buy them at home at a reasonable rate, it is well to do so. But if you have to send a distance for them and pay express charges it will not pay. Try the experiment of ordering good runner or layer plants at once, and on receipt of them pot them yourself. Place the plants in some vacant frame where they can be watered and partially shaded at first, and in two or three weeks you will have as fine potted plants as you may desire.

—For killing grass and weeds on gravel walks there is nothing better than moderately strong brine. One application is not sufficient, but it must be kept up persistently, and especially after a rain.



## Seed-Time and Harvest,

**Published Quarterly**

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 25 CENTS PER AGATE LINE.

LA PLUME, LACK'A CO., PA.,

JULY, 1881.

SEED-TIME and HARVEST will hereafter pay particular attention to describing and illustrating New and Improved varieties of Fruits, Flowers, Vegetables, &c., and we earnestly invite our friends everywhere, to send us reports for publication, of anything of this kind which they may have any knowledge of, or which they have found, upon actual trial, to merit such publicity. We desire to conduct this journal in a manner which shall prove most profitable to all its readers, and if each will strive to give, as well as receive, we believe it may prove eminently successful in its undertaking. We design occupying considerable space in our next (October) numbers, with reports from our readers, upon the New Vegetables which they have grown for the first time this season, in order to ascertain in what particular localities, certain varieties succeed best. While we may be more particularly interested in the things which were obtained from our establishment, we would also like reports upon new varieties from other sources, as our readers will want the best. Many of our friends have asked that SEED-TIME and HARVEST be published monthly instead of quarterly, but if this change is ever brought about, its friends and subscribers must help to do it. Its circulation already extends into every State and Territory in the Union, and if each of our present readers would help a little, great results would certainly follow. We believe it might be published monthly at \$1.00 per year, and give each subscriber a premium of one dollar's worth of seeds, if each present subscriber would act as agent in obtaining new names. How many will endeavor to do this? We will accept subscribers upon these terms now, with the understanding

that it shall be a monthly, as soon as our present number is doubled. So if each will send one new subscriber, the work will be done. Upon receipt of the dollar we will enter the subscriber's name and send him a certificate for the amount in seeds, which may be returned and the selection made at any time within a year. But as we cannot count upon a unanimous action, some will have to send in several in order to cover the total deficiency of others.

PLEASE REPORT. We particularly desire reports from all who have tried them, upon the Belle, Defiance, and Luxury potatoes, La Plume Chestnut Celery, Lackawanna Cauliflower, Winona Dwarf and Nicollet Big Gem Peas, Red River Sweet, North Star Yellow Dent Field, and Squaw Corn, and Golden Marrow Pumpkin. We will be very thankful to all of our friends, who try any of the above this season, for a report of the same by October 1st. We are particularly anxious to find how these new varieties conduct themselves in widely different localities.

—Salt has been found of great benefit to young pear and apple trees, especially when planted upon sandy soils. A gentleman of our acquaintance says his trees bore largely every year but more than one-half the pears would fall off before they were ripe. He took fish and pork pickle and sprinkled a few bucketsful to a distance of ten feet from the trees. The result was the trees have since borne so full that the limbs have broken down with the weight. We have known young trees, set in poor, sandy soil, to take on new life and vigor after receiving a sprinkling of salt upon the ground.

—“The soil is the source from which we derive all that constitutes wealth; without it we would have no agriculture, no manufactures, no commerce.”

—The more available plant food the soil contains, the more profit there will be in working it. The most profitable labor a farmer expends is in enriching his land for future use.





THE MANCHESTER STRAWBERRY

FOR the above cut of the Manchester Strawberry we are indebted to our friend, Mr. J. T. Lovett, of Little Silver, N. J., who is now introducing this variety under the broad claim of "the greatest strawberry on earth." It is a chance seedling found growing in an old garden by Mr. Jesse Battey of Manchester, N. J., who has grown it for market for the past seven years. Thus it has been well tested, though offered to the public this fall for the first time. It is described as of large size, supremely firm; (being even firmer than the Wilson and keeping its color much longer,) of perfect form and exceptionally uniform in size and shape, brilliant scarlet color, with prominent bright golden seeds, and ripens all over at once, rendering it of the greatest beauty imaginable. Quality superb, wonderfully productive and extremely vigorous, forming large stools. The blossom is pistillate and its season is medium until very late.

A large party of eminent horticulturists assembled at Mr. Battey's last June for the purpose of inspecting this variety, and their

unanimous verdict was that it possessed real merit. It was christened upon this occasion by vote of the company. Taken altogether no one can say that it has not been honestly and fairly introduced, and we will hope it is one of the few which has come to stay.

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*STRAWBERRY NOTES.*

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On July 9, we paid a visit to the grounds of Mr. Sisson, of this place, and found them still picking Strawberries [as large as walnuts. Five years ago it was almost impossible to get enough for dinner the Fourth. Then the Wilson was the main dependence, for a market berry, and the last pickings were very small and imperfect. Mr. Sisson has for years been more largely engaged in growing Strawberries for market than any one else in this section, and has tried nearly all the newer varieties, as they have appeared. Until recently he has found none, among the many offerings, to



take the place of the Wilson for profit. His crop this season consists of about two acres, which are about one-half Sharpless the balance Crescent Seedling. One noticeable peculiarity of the Sharpless is the fact that the fruit holds out large—enormously large—to the end, and continues in fruit much later than the older varieties. The Glendale was also fruited on a small scale. It is a beautiful berry, very firm and solid, but too sour to suit our taste. It is, no doubt, a desirable variety for late shipping, but not for home use. Mr. Sisson always sets his plants in the spring, as early as possible, on slight ridges three feet apart, and the plants about one foot apart in the rows. These are kept well cultivated through-out the first season, a few new plants being allowed to take root and grow around the original. As soon as winter sets in, the ground is completely covered with first a coating of forest leaves and a light scattering of straw or swamp hay, to hold them in place. This covering has a three-fold purpose and can by no means be omitted. First it protects the plants from freezing out or winter killing; second by being left on as long as possible in spring it keeps the plants back so they will escape our late frosts, which often completely ruin all prospects of fruit on those not covered, and bring the ripe fruit in market at a season when they are not so plentiful as earlier, thus securing better prices; and thirdly, the mulching keeps all fruit out of the dirt and prevents sand from spattering on them during showers. Mr. S. usually sets a new bed every spring, never fruiting them more than two years, and in case they become very weedy, but one. When through fruiting the mulching has to be removed and the ground dressed out with cultivator and hoe, and in fall the new mulch applied. This, he claims, is often more labor than it is to set a new bed, but from the present appearance of the Sharpless plants, we should think the prospect for another year's fruiting better than the present and should, by all means, let them stand. Mr. S. finds a ready market, for all he can grow, in the larger towns and cities from 10 to 30 miles distant at an average net price of about

12cts. per quart, and we think it pays him better than any other farm crop. His farm is on a hill, the land being a beech and maple tract with no sand, but a stiff clay subsoil. Any good corn land well manured will, undoubtedly, grow a fine paying crop of strawberries, and we see no reason why the production of them should not largely increase.

—A few days since we selected a number of the largest and latest specimens of the Sharpless Strawberry, and planted the seeds in a box previously filled with a compost of equal parts of finely pulverized leaf mould from the forest and pure sand well mixed. We don't know that we shall succeed in producing the "coming strawberry" but shall come nearer to it than he who does not try. Certain it is that great improvement has been made during the last few years on strawberries, and it is not likely that the end has been reached. Lateness is an essential feature in a strawberry. It is useless for us to compete with growers fifty or a hundred miles south of us on earliness, and as we do not want to be in the "glut of the market," if there ever is one, the next best thing to do is to come in as far behind the crowd as possible. All gardeners agree that to increase or keep up the earliness of tomatoes, it is necessary to save seeds from the first ripe specimens, and we believe that earliness is a quality which may be bred up in this manner. Then to produce a late strawberry why not select and plant seeds from the very latest specimens as we have done? The Sharpless is, in size and quality, all that can be desired so we select it for a parent. If we can procure an offspring from it that equals it in these respects and gain a little in firmness and solidity, a little more brilliant in color and somewhat later in ripening, will we not get paid for our trouble? Time will tell. Thinking that some of our friends may also wish to try their hand at growing seedlings from such seed we have saved a quantity from this late picking and have succeeded in washing them out clean. We will send a packet by mail for 10cts which barely pays for



our trouble in washing and mailing it. It may either be sown now or in spring. Sow in a box of fine leaf mould and sand mixed and they will grow readily.

SEEDS FOR FALL SOWING.

In the extreme south there is yet time to plant nearly all varieties of vegetable seeds and perfect a crop before Christmas, in fact these fall crops are more likely to grow well and escape a severe drought at a critical time, than from early spring sown seeds. But in the Northern and Middle States there are but few kinds which may yet be sown with any prospect of perfecting a crop. Many successful gardeners however prefer to sow seeds of Cauliflower, Cabbage, Lettuce and Onions about the middle of September, and carry the half-grown plants through the winter, in order that they may have an earlier start than could otherwise be given them the following spring.



LACKAWANNA CAULIFLOWER.

For this purpose Cabbage and Cauliflower seeds should be sown in a rich bed in the open ground from the tenth to the twentieth of September. Strict attention to the date is necessary, for if sown too soon, the plants will become too large before winter and have a tendency to run up to seed in spring instead of producing fine heads. There will be no trouble in producing plants at this season of the year, the last brood of the flea-beetles, so destructive in spring, having

passed away for the season. As soon as the plants have become large enough to handle conveniently, or from four to six inches high, they must be transplanted into a cold-frame,—which is a hot-bed without bottom heat.—in rows six inches apart and about two inches apart in the row. In transplanting, the plant must be set as deeply in the soil as possible without covering the bud or heart. So set, the plants will be less liable to be heaved out by frost and the soil will protect the stems from severe freezing and splitting which they encounter when not so transplanted. These beds are left exposed until freezing weather sets in when they must be covered with sash, and in case the weather becomes very severe, straw mats or blankets of some sort may be added. The beds will require careful attention during the winter. In mild weather the sashes should be removed during the day and the plants aired in order that they may remain healthy and retain a vigorous color. Such plants may be so hardened that they may be set in the garden during the first mild weather in April, and they will be much in advance of spring sown seeds in maturing a crop. Most gardeners also plant out lettuce alternately in the rows with the early cabbages. This, being of a quicker growth, may be marketed before the cabbages will require the whole room.

Onions are also largely sown in September, and the practice is, on several accounts, to be preferred to spring sowing. There is more time in fall than in spring to get a bed in good condition for the seeds, and as they start much earlier than from spring-sown seeds, there is consequently much less labor required to keep them free from weeds which it is absolutely necessary to do in order to perfect a crop. The time of sowing is not so important as with cabbage, though if sown too early they are less likely to bottom well, while, on the other hand, if the sowing be deferred until too late, they are less likely to stand the winter without injury. In this latitude from the tenth to the twentieth of September is about the proper time. Farther south they should, of course, be sown correspondingly later, about six weeks of growing weather being required to



get them in proper shape for winter. On the approach of cold weather a light covering of straw, forest leaves or salt hay should be given, as the young plants, not being entirely hardy, will not stand our rigorous winters without some protection. In the southern states fall sowing is carried on more extensively than spring sowing, for the reason that the crop thus having an earlier start is more likely to be perfected before the severe drouths of summer, and even in this latitude some of the finest onions we ever saw were from fall sown seeds. The ground requires the same preparation as for spring sowing and should the weather not be very moist at the time of sowing it will be necessary to roll it well in order to insure the perfect germination of the seeds.



YELLOW DANVERS ONION.

Spinach is another Vegetable which produces a much heavier and better crop when sown in fall. It is sown in drills in a manner similar to onions except that it does not require so heavy manuring. The plants are quite hardy and with a slight covering will withstand our winters and start very early in spring. In the vicinity of cities or large towns it is very salable early in spring, and the ground may be readily cleared in time for potatoes or other spring crops. It is used for "spring greens" and is so much superior to the wild plants so frequently used that any one who once grows it will make a little effort

to obtain a supply, rather than search the fields for dandelions, &c. No plant grows more freely and with less trouble in all kinds of soil than Spinach. When sown in spring it comes on too late to meet the craving and consequent demand for something green.

Turnips may still be sown in this latitude and perfect a crop before the ground freezes. Roots of much better cooking quality may be grown from late sown seed, than if started earlier. The quicker they are made to grow the more tender and juicy they will be. The "twenty-fifth of July, rain or shine" was the old womans rhyme by which she could remember the proper date for sowing turnips, and for the standard field sorts such as Yellow Globe and Purple Topped Strap-leaf this is a good date, but earlier varieties such as Early White Dutch, Golden Ball, and new White Egg, may be sown on good ground until the middle of September with a very reasonable prospect of harvesting a fine crop of tender edible roots. The amount of seed required is about one pound per acre, which at present prices is very cheap seeding, only requiring an amount well worth risking on the probabilities of so large and valuable a crop.

—A successful rose grower says that a tea made of soot from the stove-pipe or chimney is excellent to revive a rose bush which appears not to thrive. The shrub will quickly send out thrifty shoots, the leaves will become large and thick, and the blossoms will become larger and more richly tinted than before. To keep the bushes clear of insects syringe them with tea made of quassia chips which may be obtained cheaply of any druggist or apothecary.

—Cuttings of Currants and Gooseberries should be made in the fall soon after frost, tied in bundles and packed away in the cellar or buried in a dry place and covered with horse manure until Spring. They will then be found nicely calloused and ready to take root as soon as set.

—The gardener's safest bank—a bank of well-rotted compost. Have you one?



## ANSWERS TO CORRESPONDENTS.

## WHICH IS THE "BELLE?"

Waterville N. Y., July 12, 1881.

Dear Sir;

I discovered when cutting my Belles, that about one-fourth cut white, the others mottled, all the same color out-side; I planted them separately; the white flesh ones have a pink blossom, the others a white blossom; now which is the Belle? So far as I am able to judge, I think the peach blossom is the Belle. Will you inform me on the subject?

Yours Truly,

W. W. Blackman.

ANSWER. One is as much the "Belle" as the other. This new variety was produced by planting seed-balls of the Early Rose and the so-called different varieties, spoken of above, evidently came from different seeds of the same ball. We noticed this variation the first year we grew them, and thought of separating them, but the difference in their appearance was so slight that it seemed impossible. We have not noticed any particular difference in the yielding or cooking qualities of them and do not know that this peculiarity is any damage to the variety.

ARE hard coal ashes good to put on land? If so, are they good for any kind of crops in particular, or what use would you put them to? Please answer in SEED-TIME AND HARVEST and oblige,

Emerson L. Todd.

The value of coal ashes for small city gardens has been frequently alluded to, and as such ashes are very abundant and easy of access their value can be easily tested. The *Husbandman* reports an experiment made with coal ashes, applied at the rate of 200 bushels to 20 square rods, or 10 bushels to a square rod. The soil was heavy and compact. The ashes were drawn on late in the autumn and spread on the ground, which had been recently plowed. In the spring the plowing was repeated, thoroughly mixing the ashes with the soil. The ground was planted with garden vegetables. The beneficial result was in the correction of the heavy character of the soil, the ashes acting mechanically and not as a manure, and producing a satisfactory improvement.

In answer to an inquiry by L. Adams, allow me to say, that the onion seeds pro-

duced on the same stalk with the sets, or buttons, will produce large onions the first season just the same as any onion seed. I planted a lot of such in the spring of 1879 and they reproduced the parent onion as faithfully as did the sets, though not as early. As they were not as good as red Wethersfield I did not try to raise seed from the bulbs they produced, but no doubt they would have borne seed.

W. Hester,  
Van Meter, Iowa.

To send plants safely by mail several days' journey requires considerable skill and care in packing; yet during the past month we have mailed a great many with the loss of very few, notwithstanding the hot weather. The following letter just received answers an inquirer who asks if we can send cabbage and celery plants safely by mail:

Brusly Landing, La., June 28, 1881.

Isaac F. Tillinghast, La Plume, Pa.,

Sir,—The cabbage plants (500) you sent me by mail arrived safe and in splendid condition. I received them on the 26, (they were mailed on the 22, at 9 A. M.,) and planted them on the 27. To-day they all seem to look as if they all mean to grow. Will send for celery plants later. With many thanks, I remain, Yours,

Mrs. A. T. Bird.

Mr. Editor:

In a recent issue of your paper "Daisy B." writes to know what to do when she has the "blues." Now, I have been troubled with that very unpleasant and essentially female complaint in the past, and I am quite sure my experience will help her, I don't believe these indigo feelings come because things don't go right around us, but because matters don't go right within us. Every lady understands this and knows the cause. For years I suffered terribly, and I now see that I might have avoided it had I known what I do to-day. I tried taking Warner's Safe Kidney and Liver Cure as an experiment, and it did more for me than I could ever have dreamed it possible to do for any woman. I would not be without it for the world and I earnestly advise Daisy B. or any lady troubled as she was to use the means which I did and I am sure it will have the same effect.



—We have an idea that a cheap, durable and beautiful fence may be made by setting trees of Norway Spruce four or six feet apart and when they have grown four or five feet high, stretch a barbed wire through them, letting it rest upon the branches about three feet from the ground. These trees grow rapidly when young, are hardy and bear cutting back well, produce an almost impenetrable barrier themselves, and in addition to a fence, will make a very serviceable screen or wind-break, well worth all the cost for the north or west side of any cultivated field. So strongly are we impressed with this kind of a fence that we set about 200 rods of it last spring. The trees are now about two feet high and worth \$10.00 per 100. We set four trees to the rod costing say 40 cents. The barbed wire weighs about one pound per rod and will cost 10 cents, making 52 cents per rod for material, and we have an idea that in ten years time \$5.00 per rod would be no consideration for us to part with this structure. We never fancied barbed wire alone for fences, but believe this is the true way to use it.

—If old fuschias are cut down they will send out quantities of fresh shoots; but if you desire to keep them in good form cut off the old branches and pinch in the new ones, and a fresh growth will soon push out.

#### A WORD TO BUSINESS MEN.

Cards for all kinds of business of interest to Farmers, Gardeners, Nurserymen, Seedsmen, Florists, &c., will be inserted in our Directory and a copy of SEED-TIME AND HARVEST sent to any address for \$1.00 per year, always in advance. It will contain only the leading and most responsible dealers and must prove very valuable as a reference sheet to our readers.

If any kind of advertising in the world will pay a card in this directory at this price must pay, and if you are engaged in any business of interest to our readers, your card is solicited. Although you may be already well known, your correct address is not always remembered by your customers, and keeping it where they can readily turn to it will many times bring you orders that might otherwise go to other parties.



THE LEADING SCIENTISTS OF TO-DAY agree that most diseases are caused by disordered Kidneys or Liver. If, therefore, the Kidneys and Liver are kept in perfect order, perfect health will be the result. This truth has only been known a short time and for years people suffered great agony without being able to find relief. The discovery of Warner's Safe Kidney and Liver Cure marks a new era in the treatment of these troubles. Made from a simple tropical leaf of rare value, it contains just the elements necessary to nourish and invigorate both of these great organs, and safely restore them and keep them in order. It is a POSITIVE REMEDY for all the diseases that cause pain in the lower part of the body—for Torpid Liver—Headaches—Jaundice—Dizziness—Gravel—Fever—Ague—Malarial Fever, and all difficulties of the of the Kidneys, Liver and Urine Organs.

#### READ THE RECORD.

"It saved my life."—E B LAKELY  
 "It is the remedy that will cure the many diseases peculiar to women."—MOTHERS MAGAZINE  
 "It has passed severe tests and won endorsements from some of the highest medical talent in the country"—NEW YORK WORLD  
 "No remedy heretofore discovered can be held for one moment in comparison with it—REV C A HARVEY D.D Washington D C

This Remedy which has done such wonders, is put up in the LARGEST SIZED BOTTLES of any medicine in the market, and sold by Druggists and all dealers at \$1.25 per bottle. For Diabetes, enquire for Warner's Safe Diabetes Cure it is a positive remedy.

H. H. WARNER & CO., ROCHESTER, N. Y.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**THE COUNTRY GENTLEMAN** properly stands at the head of the list of all agricultural journals for sterling merit and solid practical value. We have an uninterrupted file of some 20 volumes and would not take first cost for them today. Weekly, \$2.50 per year. L. Tucker & Son, Publishers, Albany, N. Y.

**ARTHUR'S HOME MAGAZINE**,—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**DEMOREST'S MONTHLY**, devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**PETERSON'S MAGAZINE**. Chas. J. Peterson & Co., Philadelphia, comes again with its monthly greeting and is welcomed by all, the ladies especially. Its old and well known writers, as well as many new ones still fill its pages with choice matter while its fashion department is always up with the times and reliable.

**LIPPINCOTT'S MAGAZINE**. J. B. LIPPINCOTT, & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PRAIRIE FARMER**. A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 34 Park Row. New York.

**VICK'S MONTHLY MAGAZINE**, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**THE GARDENER'S MONTHLY AND HORTICULTURIST**. Edited by Thos. Mehan and published by Charles H. Marot at Philadelphia Pa., at \$2.10 per year. It gives full instructions in the science and practice of every branch of gardening.

**THE AMERICAN CULTIVATOR**, Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE FARMING WORLD**. We earnestly advise every man who reads for knowledge and works for money to at once send 80 cents for **THE FARMING WORLD**, for 1881. It is invaluable alike as a source of information and revenue as it offers large premiums to club-raisers. Address, The Farming World, Cincinnati, O.

**THE FARM JOURNAL**, 144 North Seventh St., Philadelphia Pa. Monthly; 16 pages; 50 cents per year, or only 25 cents in clubs. If you are not acquainted with this Journal just send your name for a sample copy and I think you will become a subscriber.

**The Housekeeper**, Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**HALL'S JOURNAL OF HEALTH**. New York. This publication differs in the fact that it is composed entirely of short and concise editorial articles upon the most common causes of loss of health, and best methods of regaining it. Ought especially to be read by the young.

**THE AMERICAN BEE JOURNAL**. Weekly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$2.00 per year.

**GLEANINGS IN BEE CULTURE**, monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

**AMERICAN RURAL HOME**. A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

**THE WEEKLY WITNESS**. John Dougal & Co., New York. Contains News of the Day, Prices Current, Financial Reports, Spirit of the New York Daily Press, Home Department, General Correspondence, also Departments for Agriculture, Temperance, Sabbath School, Religious Reading, Stories &c. It gives more reading matter than any other religious weekly.

**The Poultry Monthly**, published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

**THE LADIES' FLORAL CABINET** is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.

**THE FARMERS' REVIEW**, Chicago, Ill., walks right in every week, and with its pages of statistics from all over the country shows what the farmers are doing. It advocates "profitable agriculture, anti-monopoly and equal taxation." \$1.00 a year, and well worth it.

**THE FLORAL WORLD** is the title of a new 24 page monthly which has found its way to our table and we gladly welcome it. It is filled with practical articles of value to every lady who cultivates window plants. It is edited by practical florists and will, no doubt prove a success. \$1.00 per year. Floral World Publishing Co., New Brighton, Beaver County, Pa.

**THE FLORAL INSTRUCTOR**. The author of those pleasant floral articles signed "Mr. Rennie," also edits a little monthly with the above title which will strive to keep us posted upon floral matters. It can be had by addressing the publishers, Spalding & McGill, Ainsworth, Iowa.

**THE BOTANICAL INDEX** is the title of a handsome quarterly published by L. B. Case, Richmond, Ind., who is interested in collecting rare and valuable plants from all parts of the Globe and uses these pages to illustrate and describe them. It is very interesting and instructive.



*Seed-Time and Harvest*  
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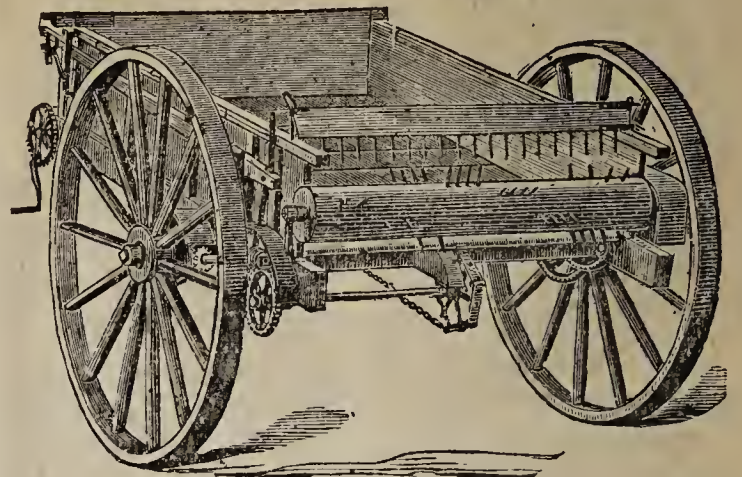
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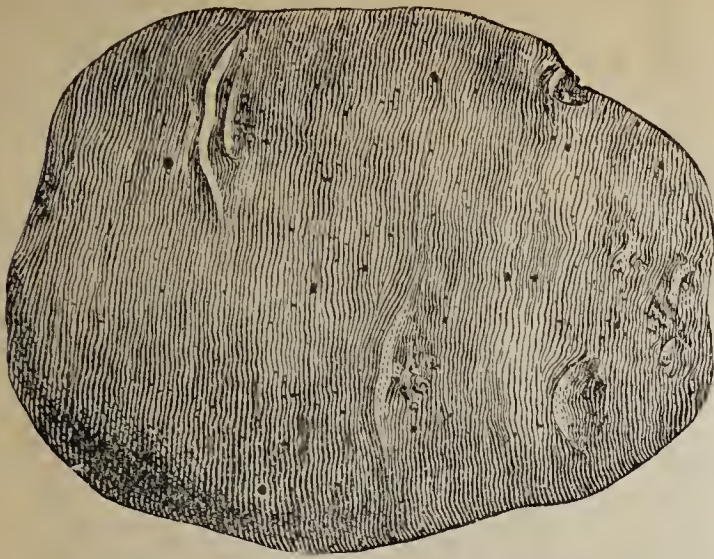
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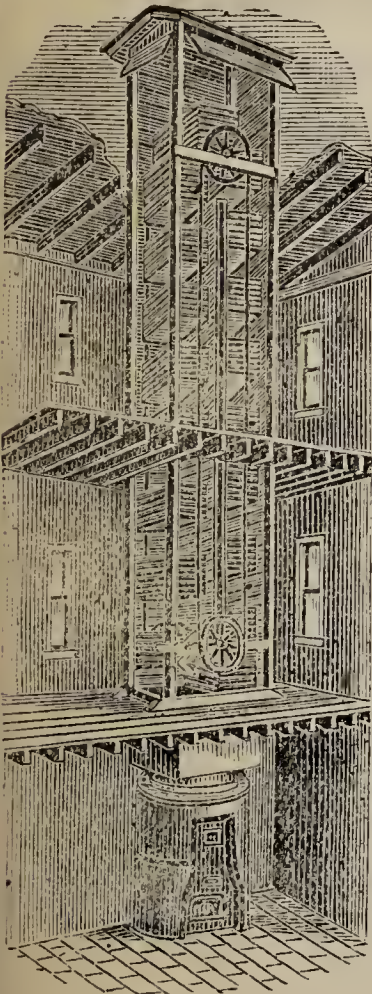
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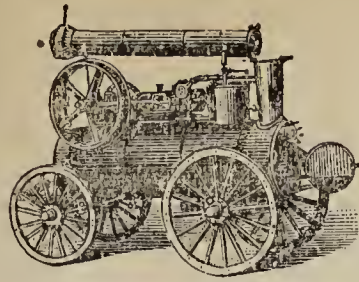
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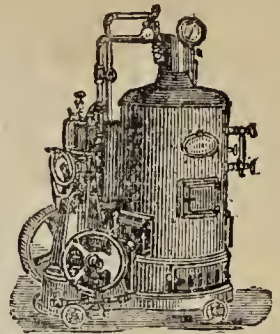
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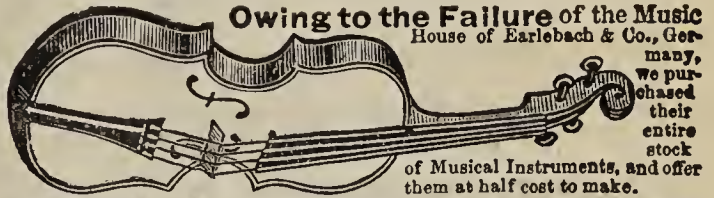
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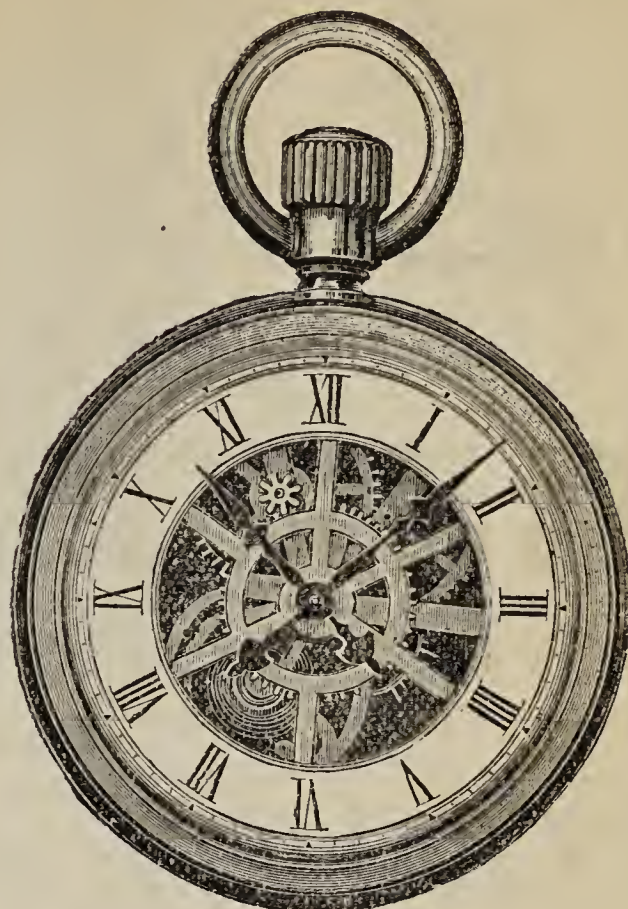
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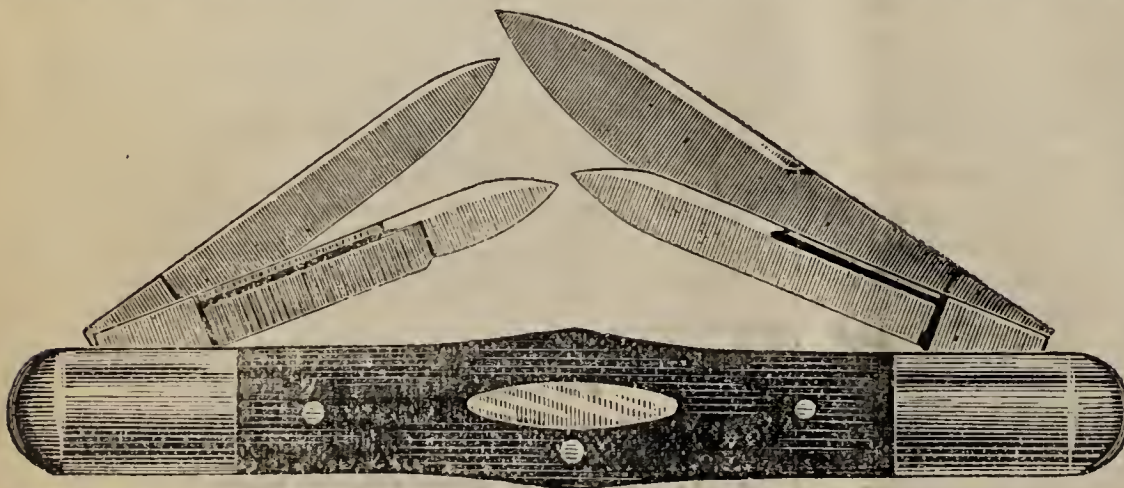
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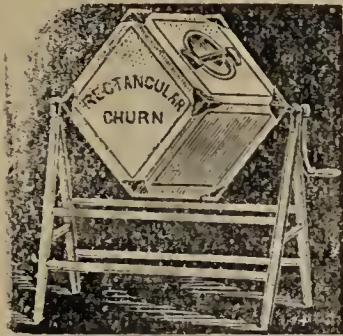
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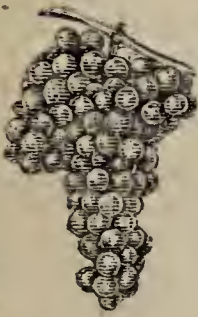


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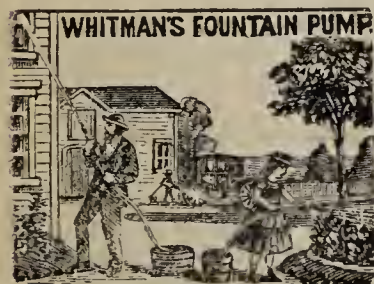
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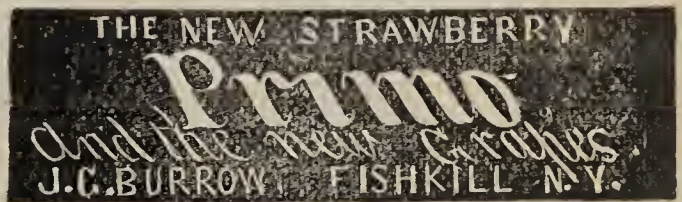
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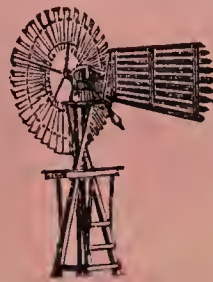
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*[From Dr. F. M. Hexamer, Editor of The American Garden.]*

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*[From Peter B. Mead, formerly Editor of The Horticulturist.]*

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*[From C. W. Idell, the veteran Commission Merchant and Horticulturist.]*

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Number Eight.

Seed-Time and Harvest.

1881.



(DOUBLE AQUILEGIA.)

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A Quarterly Agricultural and Horticultural  
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{ Nurseryman.



# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO VIII.

AUTUMN,

1881.



THE BIDWELL STRAWBERRY.



## Gardening.

**T**OIL and be strong. Some love the manly foils:  
 The tennis some; and some the graceful dance;  
 Others, more hardy, range the purple heath  
 Or naked stubble, where from field to field  
 The sounding coveys urge their laboring flight,  
 Eager amid the rising cloud to pour  
 The gun's unerring thunder; and there are  
 Whom still the meed of the green archer charms.  
 But if through genuine tenderness of heart,  
 Or secret want of relish for the game,  
 You shun the glories of the chase, nor care  
 To haunt the peopled stream, the garden yields  
 A soft amusement, a humane delight:  
 To raise the insipid nature of the ground,  
 Or tame its savage genius to the grace  
 Of careless sweet rusticity, that seems  
 The amiable result of happy chance,  
 Is to create and give a godly joy,  
 Which every year improves. Nor thou disdain  
 To check the lawless riot of the trees,  
 To plant the grove, or turn the barren mould.

DR. ARMSTRONG.

## Post-Mortem Love.

**W**HY is it that so many people keep all their pleasant thoughts and kind words about a man bottled and sealed up until he is dead, when they come and break the bottle over his coffin and bathe his shroud in fragrance? Many a man goes through life with scarcely one bright, cheering, encouraging, hopeful word. He toils hard, and in lowly obscurity. He gives out his life freely and unstintedly for others. I remember such a man. He was not brilliant—he was not great; but he was faithful. He had many things to discourage him. Troubles thickened about his life. He was misrepresented and misunderstood. Everybody believed that he was a good man, but no one ever said a kind word or a pleasant thing to him. He never heard a compliment, and scarcely ever a good wish. No one ever took any pains to encourage him, to strengthen his feeble knees, to lighten his burdens or to lift up his heart by a gentle deed of love or by a cheerful word. He was neglected. Unkind things were often said of him. I stood at his coffin, and then there were many tongues to speak his praise. There was not a breath of aspersion in the air; men spoke of his self-denials, of his work among the poor, of his good qualities,

of his quietness, his modesty, his humility, his pureness of heart, his faith and prayer. There were many who spoke indignantly of the charges that falsehood had forg'd against him in past years, and of the treatment he had received. There were enough kind things said during the two or three days he lay in his coffin, and while the company stood around his open grave, to have blessed and made him happy all his fifty years, and to have thrown sweetness and joy about his soul during his painful and weary journey. There was enough sunshine wasted about the black coffin and the dark grave to have made his whole life-path as bright as the clearest day. But his ears were closed then and could not hear a word that was spoken; his heart was still then, and could not be thrilled with the grateful sounds. He cared nothing for the sweet flowers that were piled upon his coffin. The love blossomed out too late; the kindness came when the life could not receive the blessings; and I said then that I would not keep all my kind words and all my pleasant thoughts and feelings about my neighbor locked up in my breast till he is dead. They will do him no good then. His dead hand cannot feel the warm pressure. Gentle words will not make his pale, cold face glow. It will be too late when he lies in his coffin to seek to make him happy—to lift the shadows off his life or to brighten his path.

It costs but little to give men a great deal of joy and help. One brought a bunch of flowers to my table, and for a whole week they filled my room with fragrance. One wrote me a cheering letter, breathing a spirit of gratitude and love. It came when I was weary and depressed, and was like the meal prepared by the angel for the old prophet. I went on its blessed strength for many days. One met me on the street and spoke an encouraging word and grasped me warmly by the hand, and for hours I felt that warm grasp and heard that word echoing through my soul. A little child may brighten scores of lives every day. There is not one of us who may not gladden and strengthen many a heart between every rising and setting sun. Why should we not live to bless the living, to cheer the disheartened, to sweeten cups that are bit-



ter, to hold up hands that hang down, to comfort those that mourn, to bear joy into joyless homes? Kind words will not spoil a man. If a sermon helps you, it will do the preacher no harm to tell him so. If the editor writes an article that does you good, he can write a still better one if you send him a word of thanks. If a book pleases you, do you not owe it to the author to write a grateful acknowledgement? If you know a weary or neglected one, would it not be such work as angels do—would it not be Christ-like work—to seek every opportunity to brighten and to bless that life? Do not wait till the eyes are closed, till the ears are deaf, and till the heart is stilled. Do it *now*. Post-mortem kindnesses do not cheer. Flowers on the coffin cast no fragrance backward over the weary days.

—Selected.

### Popular Fallacies About Insects.

**T**HERE is a popular idea that a hard winter is very destructive to insects, and that they will be fewer in the summer following. The idea is not a true one.—When our winters are steadily cold few insects hatch out of the egg or the chrysalis state; in those winters that are mild, large numbers of insects come forth on fine warm days and nights, and great numbers will perish before they can lay eggs or change their forms, by frost, storms, or birds. This is not theoretical, but proven by the observations of over forty years spent in the study of natural things. Any one may see on warm days and nights, plenty of flies, moths, gnats, &c., in winter, and these are almost invariably destroyed before they can breed. In some springs we have a continuance of cold, ungenial winds which hinder a good state of growth in plants; at such times plants, shrubs, and even trees get infested with great quantities of insects, especially what is called the green and black aphid, or fly; many people still believe that these insects are brought in the winds but this is far from the truth; the plants by their slow state of growth are made more favorable places for insects. By those conditions every gardener who knows his busi-

ness knows that insects get most upon his plants when they are in a low state of growth; the eggs and chrysalides are always somewhere around, and when circumstances are favorable they are ready for work. An old gardener once expressed it, that only ignorance and idleness ever allowed insects to get "boss" in gardens or houses. The old man's words are true. Many good people have a happy knack in dealing with the insect world; they will see a few one day on their plants, and leave them to some other time before they undertake to stop them either from breeding or eating, and then often commence to save their plants when they are well crowded, and it takes as much to destroy the vermin as often fixes the plants also. Those who wish to keep insects in check must never have any "tomorrows" about their ways but must act as soon as the eggs, chrysalides, or vermin in any state are seen. Destroy the first lot and it is rare that there's much trouble after. Those who have only a few plants in a window can easily keep them clean. If the plants are not large take the pot in the right hand, by its bottom, and let the stem of the plant between the middle fingers; then submerge the head in a pail or tub of soapsuds, and then rinse it in clear water. If this were done once or twice a week, it would benefit the plants even if no insects had to be killed.

It would be easy to write many chapters how to destroy insects, but a watchful eye and prompt action in destroying them is worth all that can be recommended, and the finger and thumb will often keep a large place pretty free from such pests. These are occasions when it is needful to apply wholesale (as it were) means. The English farmers could not grow turnips were it not for their free use of coal soot. As soon as their turnips get into a second leaf a little black fly comes in millions, and would destroy the crop (which is there an important one), but by covering the plants with soft coal soot they are saved. The soot don't kill the insects, but insects are somewhat like human beings; if they get well annoyed they shift, and the soot as it washes off the plants makes them grow faster. Soot is used over large areas of other crops to



drive away insects, and as a fertilizer. It is not an uncommon thing to see ten or twelve car loads of soot leaving a town or city for the farmers in the country. Were the uses of soot more generally known we should have fewer complaints about insects.

—*Prairie Farmer.*

### Preserving Grapes for Winter.

**A**S AUTUMN approaches, we receive a number of inquiries as to the method of preserving grapes for winter use. It is not generally understood that there is as much difference in grapes, with respect to their keeping, as there is with other fruits. No one would expect to keep Early Harvest apples or Bartlett pears for the holidays, and it is so with the most generally cultivated grape, the Concord; it can not be made to keep in good condition long after it is fairly ripe. With other varieties it is different. There are some localities where that grand old grape, the Catawba, can still be cultivated with success, and, where this is the case, one need hardly to look for a better variety. The Isabella still succeeds in some places, and is a fair keeper. Better than either, if not the best of all grapes, the Iona gives good crops in some places, as does the Diana. Where either of these, the Isabella, Catawba, Iona, or Diana, can be grown, there is no difficulty in keeping them until the first of the New Year, or later. The grapes are allowed to ripen fully; they are picked, and placed in shallow trays, in which they remain in an airy room to "cure." The operation of curing consists merely in a sort of wilting, by which the skin becomes toughened, and will not break when the fruit is packed. The clusters, when properly "cured," are packed in boxes, usually of three or five pounds each. The bottom of the box is opened, the larger clusters laid in carefully, and smaller bunches packed in upon them in such a manner that it will require a moderate pressure to bring the cover (or, properly, the bottom), of the box to its place, where it is nailed down. The pressure used is such that when the top of the box is opened, the grapes next to it are found to be

somewhat flattened. The fruit must be pressed in such a manner that it cannot shake in travel, and this can only be done with grapes the skins of which have been toughened by being properly cured. If clusters were placed in the box as they come from the vines, and subjected to the needed pressure, the skin would crack around the stems, liberating the juice, and the whole would soon pass into decay. Towards Christmas and New Year's, many tons of the varieties we have named come to the New York market in excellent condition. New varieties of grapes, of great excellence, have recently been introduced, but we have yet to learn as to their keeping qualities. With the Concord and related varieties, the skin is too tender to allow of long keeping, and it does not seem to toughen in the curing process. Still, with these, the season for home use may be considerably prolonged. The late Mr. Knox found that he could keep the Concord for some time by placing the thoroughly ripened clusters in baskets or boxes, with the leaves of the vine below and between them. We do not know how long this will keep these grapes, but we saw some in excellent condition several weeks after the harvest was over. Those who set grape-vines should be aware that no one variety will meet every requirement, and that the earlier the variety, the less likely it will be to keep.

—*American Agriculturist.*

—J. H. Hale says "The secret of success in growing large strawberries is water—water, and then more water." He has found it in a small way to double the size of the fruit in 36 hours, and he would rather have ten acres of strawberries which could be irrigated at moderate cost than the best 100-acre farm in the state.

—The editor of the *Germantown Telegraph* regards the Beurre Gifford Pear as the most desirable variety among early pears, and he thinks it ought to be found upon every farm and in every garden. It is a rampant grower, an early and constant bearer and of excellent quality.





### The Kieffer Hybrid Pear.

THIS excellent pear of which the above cut is a fair representation, is thought by many to give more promise of being the "coming pear" than any other that has courted the public favor in several years. Mr. John S. Collins of Moorestown, N. J., to whom we are under obligations for the cut, says it is a cross between the Chinese

Sand Pear and the Bartlett, and on account of its freedom from blight and vigorous growth, is especially valuable. Charles Downing, the veteran American pomologist, describes it as follows: "Kieffer's Hybrid is of very good quality, good size, deep yellow color, and orange yellow where exposed to the sun, ripening in October, and, from what I have seen of it, is a promising variety for market, as well as for family use."



## A Hymn of Praise

FOR THE BLESSINGS OF THE YEAR.

**P**RAISE to God, immortal praise,  
For the love that crowns our days!  
Bounteous Source of every joy,  
Let Thy praise our tongues employ.

For the blessings of the field;  
For the stores the gardens yield;  
For the vine's exalted juice;  
For the generous olive's use:

FLOCKS that whiten all the plain;  
Yellow sheaves of ripened grain;  
Clouds that drop their fattening dews;  
Suns that temperate warmth diffuse.

ALL that Spring, with bounteous hand,  
Scatters o'er the smiling land;  
All that liberal Autumn pours  
From her rich o'erflowing stores.

THESE to Thee, our God, we owe,  
Source whence all our blessings flow;  
And for these our souls shall raise  
Grateful thanks and solemn praise.

MRS. BARBAULD.

## The Improved Grapes.

**L**OVERS of grapes will be glad to know that all of the improvements in fruits have not been confined to pears and strawberries, but that the luscious and toothsome grape has come in for its full share of attention, and we are glad to be able to place before our readers the fine illustrations of the newer varieties with which this number of SEED-TIME AND HARVEST is embellished. Grape culture has taken rapid strides for a few years, and no basket of fruit is deemed complete if it does not contain a few bunches of both the light and dark varieties.

The Pocklington, represented by the colored plate, is one of the new white grapes, and is now being disseminated by Mr. Geo. A. Stone, of Rochester, N. Y., who has given much attention to the hybridization of our small fruits, especially the grape, currant and raspberry. From the high endorsement which the Pocklington has received, we have no doubt those who are fortunate enough to secure a vine of it will have a prize of which they will feel proud in future years.

Among those that have slowly worked their way into public favor is the white

grape, Prentiss, selected from seedlings of the Isabella which were started by Mr. J. W. Prentiss of Pultney, N. Y., over fifteen years ago, and is a pure native seedling with no taint of foreign blood. The great claim for the Prentiss is its hardiness and productiveness. Mr. T. S. Hubbard of Fredonia, N. Y., who is perhaps the largest grape vine grower in America was so well pleased with it that he secured the exclusive control of it and makes it his first choice.

"Moore's Early," which won the Sixty Dollar prize offered by the Massachusetts Horticultural Society for the best new seedling grape, and which was awarded in December, 1877, to John B. Moore of Concord, Mass., is one out of a lot of twenty-five hundred seedlings, and produced its first fruit in 1872. After nine years it has fully justified the claims of its originator. Marshall P. Wilder, Pres. Am. Pomological Society, says that it is the earliest in a collection of forty varieties, and equal in vigor, quality and productiveness with the Concord.

Having seen and tasted this grape, we feel warranted in saying it fully met our expectations, although from the high praise bestowed upon it we were prepared to expect much.

The *Country Gentleman*, in speaking of the comparative quality and value of the four new white grapes, Duchess, Pocklington, Prentiss and Niagara, sums the matter up as follows:

"Without having had an opportunity of examining them critically side by side, we should place the Duchess first in quality, a drawback being its one-fourth foreign blood and the fear that this intermixture may possibly injure the foliage in the future. Next in flavor would be the Prentiss, a strictly native sort, of excellent quality, but not equal in this respect to the Duchess. The Niagara, although one notch lower in flavor, is larger, finer in appearance, a prodigious grower and bearer, and on the whole has an unusual number of excellent points not found combined in any other variety. The Pocklington is still larger and perhaps more showy than the Niagara, but a notch farther down in quality at the usual time of ripening. We are informed, however, that if allowed to hang several weeks it becomes excellent. These four sorts all stand high, and are all eminently worthy of trial."





MOORE'S EARLY GRAPE.



## Seed-Time and Harvest,

**Published Quarterly**  
FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 25 CENTS PER AGATE LINE.

Conducted by ISAAC F. TILLINGHAST.

LA PLUME, LACK'A CO., PA., OCTOBER, 1881.

"Ah! soon on field and hill  
The wind shall whistle chill,  
And patriarch swallows call their flocks together,  
To fly from frost and snow,  
And seek the lands where blow  
The fairer blossoms of a balmier weather.

\* \* \* \* \*

Yet though a sense of grief  
Comes with the falling leaf,  
And memory makes the summer doubly pleasant,  
In all my autumn dreams  
A future summer gleams,  
Passing the fairest glories of the present!"

Need we apologize for the great amount of space given to the subject of Fruits in the present issue of SEED-TIME AND HARVEST? We think not, as we believe it to be impossible to create too great an interest in fruit culture. If there is a more healthy, pleasant or agreeable, or more profitable occupation to be sought than growing fruit we do not know it. American countrymen will have a hobby. It is right that they should have a hobby, and if there is a safer hobby, mentally, morally, physically, intellectually or financially than the fruit hobby, please lead it up—we want to invest. Is it not as near an Eden as can be found in this life to have a good fruit garden at your command? Of course you want a few flowers and vegetables interspersed and we will try and say more of these in succeeding numbers, but this is the season of fruits. Let us eat while they are here, and learn what we can about them, and while we recline in the cool shade of their branches, give thanks to the Beneficent Creator for an abundant supply of luscious golden fruits:

The Editor of the *American Rural Home* reports a trial on the 5th of August of

the following new early Peaches from the grounds of Ellwanger & Barry: Alexander, a high colored attractive fruit, but of decidedly inferior quality as to flavor. Harper's Early, inferior in nearly every attribute. Briggs's Red May, although small is a decidedly good spicy peach. Musser, is of medium size and better in quality, sweeter than any we have yet described. Waterloo: as we had recently heard some adverse criticism of this new variety, sent forth by Ellwanger & Barry, we gave particular attention to its various qualities. It is a round peach, highly colored, and about as large as the largest Alexander. It was a little over-ripe, evidently past its best period but we all agreed that it excelled in sweet, positive, excellent flavor, all the others tested, and we know no reason why it should not rank first among our early market peaches."

While a complete remedy for checking or preventing Pear Blight may not yet have been discovered, it has been pretty definitely settled that the cause of the disease is now well understood. Prof. J. T. Burrill says in the *American Microscopical Journal*, "the immediate cause of this disease is a living organism, which produces a fermentation of the material stored in the cells especially those of the liber." Other scientists have discovered this same organism, which is always present with trees affected with the blight, and is termed bacterium. It belongs to the same class as the yeast which is commonly used in making bread, and will propagate itself under the right conditions of heat and moisture, very rapidly. It has been found that if a piece of bark from an affected tree be grafted into a healthy tree, it will surely take the disease, and it is liable to spread to neighboring trees through atmospheric influences. Many tests of cutting away diseased parts entirely below where they are affected have resulted in checking its spread and saving the remainder of the tree, but it has been found necessary to burn the affected branches at once. If left lying under the trees or near them its spread may be expected.



"OUR gardens are often at their best in early autumn. We have a few days of early frost, in which the very tenderest things are killed off, and then follow days, often weeks, of the most delightful weather, in which the plants that have escaped the first frost, are at their best. It is very disheartening to the amateur, to see his beds of Coleus, and his Cannas, all limp and useless, while the hardier Geraniums seem to laugh at the disaster. So far as we have noticed, this is the usual experience, and it occurs so regularly each year, that it seems worth while to prepare for these early frosts, in order to prolong the enjoyment of the garden. These early visitations, though sufficient to kill the tenderest plants, are so slight that they may be easily warded off. What ever may be placed over the plants to prevent radiation of heat, will answer. The taller the plants, of course the more difficult it is to protect them. We have preserved a bed of tall Cannas, by setting a still taller pole in the center, tying a sheet by its middle to the pole, and letting the sheet hang over the plants, its edges being supported by them. Beds of Coleus and other tender plants may be readily protected by newspapers, held up by sticks placed here and there in the bed. Indeed, in early autumn, the newspaper is a most useful horticultural appliance, not only in the flower garden, but in the vegetable garden. By a proper use of newspapers for a few nights—the early frosts rarely continue for more than three nights—the crop of tomatoes may be prolonged for several weeks; especially where the plants are trained, as we have so often advised, to a trellis or a support of some kind."

We find the above seasonable hints in the *American Agriculturist* for Sept., and we may add what has been our practice for several years with tomatoes. When from a sudden fall of temperature we feel certain that a hard frost is approaching we hastily pull all the vines containing green and ripening fruit and stack them up. Only the vines on the top of each stack are then injured and after the weather moderates they are again spread over the ground

where much of the fruit adhering to the vines will continue to ripen for a long time. Or a few vines may be hung under some convenient shade with like results.

—We were reminded by Dr. Calder, the State Grange Lecturer of Pa., the other day, of a plan which we saw used several years ago, for preserving apples and pears in excellent condition and flavor until very late in the season. As these fruits are very plentiful this season it may be put to a practical test by many of our readers to their pleasure and profit.

Select perfectly sound specimens of fruit and pack them in boxes or barrels in common land plaster or gypsum, using first a layer of fruit and then a layer of plaster, using as much fruit as possible without having the specimens actually touch each other. Close the package and lay it away in some cool place where it will not freeze. The plaster will exclude the air and keep the fruit at an even temperature and it will be found perfectly preserved after a very long interval. We believe that the plaster is actually benefitted for future use by keeping, as it absorbs nitrogen and ammonia from the atmosphere and gives actually better results than when fresh ground.

—We have been calculating that the labor of producing the single number of SEED-TIME AND HARVEST which is before you, (if but a single one were printed,) would cost more than one hundred dollars, yet by dividing this expense among the large number published we are enabled to reduce it to less than five cents for a single number. Should we print double our present number, the cost per copy would again be diminished so that we might make it larger and better, or publish it oftener without charging any more for it. Now can you not see that it is to your advantage, as well as ours, that you call the attention of your friends to it and help us to double our list? If it is, please do so. If it is not, just tell us so and advise us not to waste our time and money to no purpose.



## THE NEWER VEGETABLES.

NOTES FROM OUR SEED FARM.

In common with a large number of our readers, we are passing through a very severe and protracted drought which must greatly shorten all our crops and will no doubt greatly diminish the number of remarkable specimens which are usually saved for exhibition at the fall fairs. At this writing, (Sept. 10th), few reports have come in concerning the various new vegetables sent out by us last spring. We presume few crops have yet been harvested and hope our friends will yet report, for if we have sent out any thing not unusually meritorious we want to know it. We have just begun harvesting our potato crop, which, although very much injured by the drought, seems healthy and well ripened. The boys have been bringing in a few specimens of the newer varieties, some of which would do credit to an average season. Fred brought ten White Elephants which turn the scale at eleven pounds, and I think the crop will average as large as any kind we have. Of their table quality, we are, as yet, unable to speak. Bert brought in five samples of the Belle, which weigh an even pound a-piece, and one which goes thirty-one and one-half ounces, and all are smooth and certainly handsome enough to exhibit at any fair. I know these are as good as they look, unless they have changed greatly since last spring. I forwarded a few to Dr. Geo. Thurber, Editor of *American Agriculturist*, for inspection, and extract the following from his reply: "A trial on the table was made to-day, and the whole family endorse my verdict of, 'splendid in every respect.' I do not now recollect a better potato." This was first sent out by us last spring, and will probably be offered in most catalogues the coming year.

The Defiance has stood the drought better than most kinds on our grounds this season, the vines having kept a healthy green color without blight, until now they are ripening. We carefully washed the soil away from one hill, leaving the potatoes together on the vines. It contains 38 tubers, very even in size, none large and but few small. The

weight of the lot was 6½ lbs, at which rate less than ten hills will make a bushel.

We have many varieties in our trial plot not yet examined, which we think will do admirably, considering the season.

Last spring we gave a neighbor a package of potato seeds, such as we have been selling for several years. It was saved from balls of the Superior grown near Burbank, which may have cross fertilized to some extent. Yesterday he showed us his harvest; it consisted of, perhaps, a couple of quarts of tubers of all shapes, sizes and colors. In shape and color, however, a majority of them resembled the parent, being long and smooth and of a deep rose color. In size they mostly ranged from that of a pea to a hen's egg, but one vine produced three handsome tubers which, together, weigh 12 ounces; the largest of the three, alone, weighing 5¼ ounces. This beats anything we ever saw grown in five months, from the seed ball, and we shall watch its development with interest.

## A WORD TO BUSINESS MEN.

Cards for all kinds of business of interest to Farmers, Gardeners, Nurserymen, Seedsmen, Florists, &c., will be inserted in our Directory and a copy of SEED-TIME AND HARVEST sent to any address for \$1.00 per year, always in advance. It will contain only the leading and most responsible dealers and must prove very valuable as a reference sheet to our readers.

If any kind of advertising in the world will pay a card in this directory at this price must pay, and if you are engaged in any business of interest to our readers, your card is solicited. Although you may be already well known, your correct address is not always remembered by your customers, and keeping it where they can readily turn to it will many times bring you orders that might otherwise go to other parties.

—Don't pour alcohol on the fire and don't take anything that has alcohol in it to help inflamed kidneys. Warner's Safe Kidney and Liver Cure is purely vegetable and acts directly upon the kidneys and liver.



### Gardening for Profit.

Two or three years since, a lady living within a few miles of one of our great business centers, finding much difficulty in procuring fresh vegetables during the Summer season, determined to raise them herself. The farmers in her vicinity carried their vegetables directly to the city market, where her grocer bought them, and she got them after they had been transported twice over the road, and had had time enough, in addition to that, to lose all their freshness while lying in the market and the grocery.

She determined to rent an acre of land, hire a stout Irishman to plow and plant it for her, get him one day in every week to do the heavy work, and all the rest she would do herself. Everybody discouraged her in the undertaking. She was entirely unaccustomed to such work, knew nothing of gardening, and was moreover a lady, which was the hardest argument of all to meet. But in spite of the incredulous smiles of her friends and the expostulations of her husband, who was in easy circumstances, she adhered to her resolution. An acre of land was rented, and a man hired to prepare and plant it, she aiding him in the work, dropping potatoes while he covered them, planting peas, putting out onion sets and cabbage plants, and learning in a general and specific way under his tutelage how to cultivate them. The housework was left mainly in the hands of a competent and faithful hired assistant, and every day for several hours she gave herself to gardening. It was hard work; the July sun was hot and scorching, the rows of corn and potatoes were long and wearisome, but she was superior to fatigue and strong in resolution. A rigid account was kept with this acre of ground, and she knew to a farthing all her receipts and expenditures. In the fall when she balanced the accounts she found that in addition to having all the fresh vegetables she could use in the family during the Summer, she had in store an ample supply for Winter consumption, and had sold enough to pay all expenses of labor, tools, and seeds, and had realized \$100 cash

as clear profit. Her cow, meantime, had lived largely from the garden, and thus even the refuse vegetables had been transformed into milk for the children.

But these were the least valuable of her out-of-door industry. Her three children were nervous fragile creatures, and one of them, put to sleep in its crib to all appearance in perfect health, was found dead and cold an hour or two afterward, in the same position it had been laid to rest. Late in the Autumn which succeeded her labors in the open air there came to her arms a healthful, vigorous baby boy, totally unlike the feeble offspring that had hitherto given her so much pleasure and pain. The child grew and waxed strong, passing through the different stages of babyhood into robust and chubby childhood without illness or suffering, and when a few weeks since, the mother rehearsed this story he had known scarcely a sick day from his birth. When her experiments in horticulture are referred to, she points with pride and delight to him as the prime stimulus to her enterprise and crowning proof that her Gardening was for Profit.

—*Practical Farmer*

### Poultry Manure.

POULTRY manure is by far the most valuable fertilizer produced on farms. Fowls eat concentrated food that is rich in nitrogen and phosphorus, and their droppings partake of the nature of the food they devour. Grain, the seeds of small plants, meat, and insects produce, when decomposed by the action of the digestive apparatus, richer fertilizing material than grass, hay, and straw. Besides, birds void their urine in a solid form and combined with the excrement that is usually solid. As a consequence it is not liable to be wasted if the manure is rightly cared for. Poultry manure is about as valuable as the best Peruvian guano. To make it of the highest value as a fertilizer, however, it must be stored and applied to the ground with care. Exposed to the weather it will be dissolved by rain and carried off. Placed in large heaps it heats and the ammonia is driven off and



# SEED-TIME AND HARVEST.

lost. Applied to the soil in too liberal quantities, especially when fresh, it is liable to destroy the vitality of seeds and to kill delicate plants. It should be stored in a dry place and in comparatively small lots so it will not be injured by moisture and not ferment. It is better to mix it with dried peat, road dust, or some other substance that will

aid in keeping it dry and tend to arrest fermentation. The best results attend its use when it is well beaten up and very thoroughly mixed with these substances before it is applied to the soil. Lime and ashes should be kept from it, as they would act upon it in such a manner as to liberate the ammonia.

Branch 20 inches. Weighing 7 pounds. Exhibited at meeting of Am. Pom. Society, Rochester, N. Y.



## THE PRENTISS.

From a Photograph by G. W. Godfrey, Rochester, N. Y.

—The original Seckel Pear-tree, it is said, still stands on grounds belonging to the estate of Stephen Girard in Philadelphia.

SEED-TIME AND HARVEST is now two years old. Is it not a strong and healthy infant? —Write to our advertisers if you need any thing, and mention SEED-TIME & HARVEST.



## Our Gardeners' Club.

DUNDEE, KANE CO., ILL.

June 20, 1881.

Mr. Isaac F. Tillinghast,

I have wanted to write you for some time saying how well pleased I am with the seeds you sold me this spring. I have read your Manual through several times, and also the copy of SEED-TIME AND HARVEST, in which on page 3, under the head of New Vegetables, you ask to have sent to you anything not generally known, or what is new to the trade. I have a Pole Bean of which I have never seen a description in any seed catalogue, which may come under the head of new vegetables. I came across it in Whitley Co. Indiana, some twelve years ago, among some Germans, who called it the "Crowder Bean" on account of the beans growing tight against one another in the pod. It makes a good string or snap-short as well as a shell bean. It is much earlier than the Horticultural and a more profuse bearer under the same conditions.

I have only a small garden this year and hope to make much of little. When the snow thawed we were as the saying is "under the flood." Lucky for us it did not rain at the time, or ruin, bleak and bare, would have been our lot to-day. After the snow passed off, which was the latter part of April, it had much the appearance that we should have an early spring. It came off so warm and the soil dried up so fast. This lasted for three weeks, and we have since had many showers of rain and cooler weather. The tender plants are having a serious time of it. Unless we have warmer days soon the corn crop will be a failure this year. Oats, Potatoes, Peas and other early truck are looking well. I for one would give my vote in favor of SEED-TIME AND HARVEST coming once a month; I presume in the near future means 1882. I do not know whether I am entitled to it from what I have purchased of you or not, and if not will send you the cash so that I may have the pleasure of reading it. Have you any of the back numbers of last year and the Jan. number of this year? I have had much difficulty in growing plants from seed of others' saving, and many things I have been forced to raise myself in self-protection against loss. Sometimes I have seriously thought of raising some kinds of seed for sale, and if I did, one of the things I meant to do was, on every package mark the year that the seed was raised, and when, by trial, I found they would not grow under ordinary tests, to burn them and return the ashes to the soil

as a fertilizer and thus keep up the standard of quality of seeds. Suppose every man who is in the seed business would carry that out, do you not think that the consumer would use more of the production than is to-day the case? I am of that opinion. I can say that I have no fault to find with your seeds, and I will give you my patronage as long as I use seed in the garden. I would rather pay more and have good seed, than take much that is sold, as a gift. Did you dispose of all your stock of Nicollet Big Gem Peas? I did think of getting some once, but thought they might be all gone before my application reached you. Hoping you may find time to write in reply, and forgive my wordy letter, I will now close. Truly yours,  
W. L. Robbins.

ANSWER. We feel thankful to you for the interest you manifest in our undertaking and the kind words you express for our success. Our seed business was, we may say, founded without capital, and whatever of popularity and notoriety our products have attained has been solely from their own merits, as they have had to work their own way into public favor.

The Beans were duly received and we were pleased with their appearance never having seen them before. It was so late however that we shall not be able to ripen them this season.

We cannot supply back numbers of SEED-TIME AND HARVEST. We highly approve of your idea in regard to testing seeds. We spend much time in testing our own stocks before sending them out, and sometimes find perfectly new seeds unreliable, either from not being properly matured, or cured, and believe that if all who disperse seeds would exercise a little more care on this point we would hear fewer complaints from purchasers. We have a fresh supply of Big Gem Peas.

Wheeler, Porter Co., Ind.,  
Aug., 10, 1881.

I. F. Tillinghast;

In looking over SEED-TIME AND HARVEST just received, I saw your solicitation to address parties whose advertisements are published therein. I am on the point of purchasing a Heating Apparatus for new greenhouse to be erected this fall, and have accordingly written to John Dick Jr. and T. O. Weathered giving your Magazine credit therefor, feeling an



interest in your business, as "I like your style" likewise your seeds which have served me well the past season, having marketed especially the finest crop of early cabbage I ever grew, seed purchased of you in February, and everything else merits the same commendation. I have sympathy for and interest in any enterprise whose purpose it is to win on its merits and build up patronage by fair dealing and giving good quality and measure; I am "on" that myself and find it is the key to success on business principles aside from moral considerations.

I intend putting up a lean-to greenhouse 200 ft. long by 8 ft. wide, giving room for a 6-ft. bench and 2-ft. path, sash sloping south, front 4 ft. from ground, sheeted, papered and weather-boarded, and place for walk dug 2 feet deeper than bench foundation using 6-ft. sash, balance of roof over path to be shingled, with space under shingles for sash to slide under, up to a stop piece  $1\frac{1}{2}$  inches from front edge of shingles; all the sash to take off in airing instead of a portion as generally used; sliding on 2 by 3-inch rafters same as hot-bed; when sash are off can "prick out" from outside in fair weather, otherwise work inside in foul weather. I tried one last winter, 6 ft. long with brick flue, which worked all right, only do not like a flue, they are an abomination; shall heat with water. I like this kind of house much better than my Span-roof Greenhouse for transplanting plants on account of its superior ventilation, and for growing lettuce it is the thing. With thanks for your favors in our business transactions, I am,

Yours truly,

Burt Eddy.

Thank you, friend Eddy, for your kind commendations. We shall try to always merit the good will of our patrons. Hope you will be successful with the new greenhouse, and next spring tell us how it works.

Fairview, Hancock Co., W. Va.,  
Nov., 22, 1880.

Mr I. F. Tillinghast,

Dear Sir,—Last spring I bought some cabbage seed that was sent out by a western seed firm that claims to send out no seed but what is true to name. I sowed the seed, set out the plants, and thought I was going to have good cabbage but only about one-half of them headed, and I think, if I remember correctly, I counted thirteen different varieties of what grew to be cabbage, and why the balance did not head, I cannot tell; I planted in good ground, manured well and went according to Gregory in his manual on cabbage raising. The SEED-TIME AND HAR-

VEST comes all right, would not do without it; only wish it came oftener than it does. If it came monthly I would freely give \$2.00 per year.

Yours Truly,

John F. Spirey.

We think your cabbage seeds must have been similar to a lot we purchased a few years ago. (before we were in the seed business,) from the famous firm of Briggs & Bros. We grew plants from them and sold them, and such a muddle as we were in! We wrote to them several times about it but they did not consider it worth replying to.

If our present readers who wish SEED-TIME AND HARVEST converted into a monthly will send us 5000 new subscribers at \$1.00 each, (and each to receive a dollar's worth of "Reliable Seeds at honest prices" in addition to the magazine,) we are ready to publish it monthly. If they will not do that, we can not undertake it.

Jordan, N. Y., Aug., 31, 1881.

Dear Sir;

I dug my Belle Potatoes to-day, and took from the pound I received of you  $52\frac{1}{2}$  pounds. I cut one eye to the piece and one piece to the hill. I took three from one hill weighing  $2\frac{1}{2}$  lbs., seven from another weighing 2 lbs., and two weighing  $1\frac{1}{2}$  lbs.; one dozen of the largest weighed  $11\frac{1}{2}$  lbs.

A. Crofut.

Marietta, O., Aug., 13, 1881.

Mr I. F. Tillinghast,

Dear Sir;—I saw in the editorial of your SEED-TIME and HARVEST for July 1881, that you would like reports upon new fruits, vegetables, etc. My brother, W. F. Smith, sent you some potatoes raised by me, in 1870. from seed ball of Early Rose. I will send you by mail to-day some seedling plums raised by me from seed of common Blue Damson. Tree has been hardy and bore good crops for three years. Yours Truly,

J. P. Smith.

ANSWER. The Potatoes were received and planted in our trial grounds late in June. The tops are still green, but it is doubtful whether they yield much as the drought has been so severe on late potatoes. Thanks for the plums which were also received in good order. We always supposed that the Blue Damson Plum reproduced



itself from the seed, having grown many seedlings which seemed identical with the parent. The specimens sent seem to us somewhat larger and thicker meated than the Damson. We would like the opinion of our readers upon this point.

Wakefield, Mass., Aug. 29, 1881.

*Editor of Seed-Time and Harvest:*—In last issue I saw the use of petroleum which I would like to try but I must ask a few questions. Is it a thick substance so that we cannot mix any thing with it? What I would like is to make a paint of it by mixing dry mineral with it for walls of out-buildings, and also for roofs of all my buildings. I see it comes much cheaper than roofing paint for that costs fifty cents per gallon by the barrel. If you will please answer the above questions you will grant me a great favor. I suppose we can get petroleum in Boston. Respectfully Yours,  
B. W. Oliver.

ANSWER. "Crude petroleum" oil is not very thick, and will strike into wood work very rapidly. We have tried mixing mineral paints with it and used it on roofs with good effect. It is also excellent for painting farm wagons, plows, cultivators, and other implements which are likely to be left exposed to the weather. It can be obtained in Boston or any other large city, and a barrel will be as good an investment as any farmer can make.

Joe, Bedford Co., Va., Sept., 8, 1881.

I. F. Tillinghast,

Dear Sir;—In the last issue of SEED-TIME AND HARVEST, I notice you request your patrons to report results of new vegetables grown from seeds planted by them, and which were first sent out by you last spring. Notwithstanding the severe and prolonged drought, the Acme and Red Chief Tomatoes, grown by me for the first time, surpass anything in the way of tomatoes that I have ever seen grown. I am also highly pleased with Crawford's Half Dwarf Celery sent me by you and I shall plant my entire crop of that variety next season.

My potatoes, Burbank and Beauty of Hebron, are the best in this community and have been a subject of remark during the whole season. As to Onion seed, see notice in important business letter sent herewith. The crop is now laid by and arrangements for another are being made. A large crop of onions next season is desired, and as I

have never grown from seed for market, and entirely failed in producing any sets, though I sowed last spring by measure one peck of seed, I of course must depend upon seed, the coming season, or miss an onion crop, which is a consideration with me. But Mr. Buist says, in writing upon the onion, that in the vicinity of Philadelphia and farther south the onion will not bottom sufficiently large to market the first season from seed. I suppose he is here noticing the ordinary varieties, for he goes on then to the new Italian varieties and says they will grow very large the first year from seed sown early in the spring, and as this appears in his catalogue prepared for the southern states, I suppose he intends it for the south.

You presented me with a packet of White Globe and one of White Portugal that produced large onions for me this season, the nicest I ever saw. If I attempt to produce a crop next season I want to commence now and I wish your advice. Do your patrons in the South support Mr. Buist's assertion? What is the probable price of Onion Seeds, and can you supply me with what I will need? I would be glad to assist in supporting SEED-TIME AND HARVEST as a monthly. Being now perfectly satisfied that your seeds are all that is claimed for them, I will do all I can for them and for SEED-TIME AND HARVEST the coming winter and spring. Very Respectfully,

V. M. St. Clair.

ANSWER. The notice referred to concerning your onion crop was not enclosed as stated. Did you forget it? So far as we can ascertain Onion seeds which are grown north of southern Pennsylvania will produce large onions in any part of the South if planted as early in the spring as the soil can be readily worked. We already have letters from a number of our customers, in different sections of the South, bearing upon this subject, and would respectfully ask others who have had experience to send reports to us and we will publish them in our next issue. The Italian varieties seem particularly well adapted to the southern climate, and we shall import some in time to give prices in January. We are now selling Onion seeds at last season's prices, as new rates have not yet been established, but we think they will remain about the same.

#### MORE NEW STRAWBERRIES.

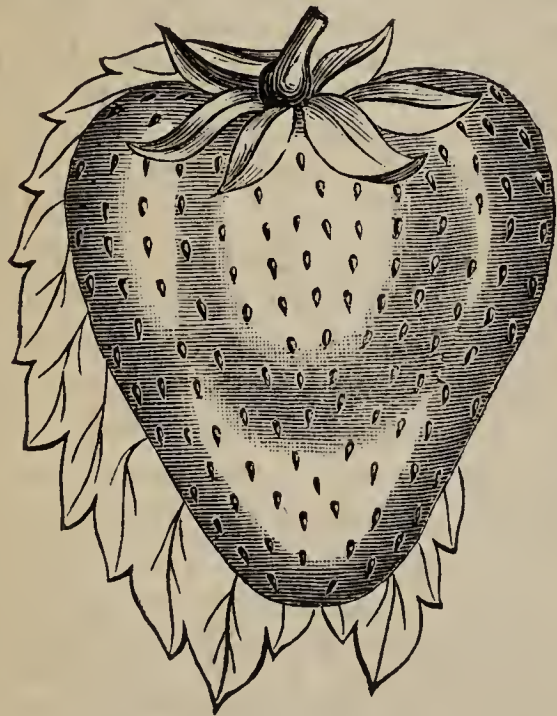
WONDERS will not cease, neither will the production of new varieties of fruits and vegetables: We have two more new strawberries for review, and although it is some-



what out of season we trust our readers may find it not unprofitable reading, and if they raise strawberries they may have the best kinds and plenty of them.

**THE BIDWELL.** We are under obligations to Mr. E. P. Roe, of Cornwall-on-the-Hudson, N. Y., for the beautiful engraving of the Bidwell Strawberry shown on page 1.

This luscious strawberry is a native of Michigan, and is a seedling of the old Virginia Scarlet. It is one of the most productive varieties, of fine flavor, very uniform in shape, bright glossy crimson color, often having a shining glazed neck, with very solid flesh. It is a little later in ripening than the Wilson and could be easily made to follow that in a succession by proper mulching. Mr. Roe thinks it would make an excellent berry for southern latitudes as it stands the sun well and thrives vigorously on light soils.



THE MT. VERNON STRAWBERRY.

**THE KIRKWOOD, or Mt. Vernon,** shown in the above engraving, is a comparatively new berry and of very fine promise. Color, scarlet; quality, excellent; flavor, delicious; form, very regular, of large size, but rather soft for long carriage. Its greatest recommendation is that it is *very* late and blooms late, thus avoiding the late frosts. It is a profuse bearer. One gentleman reports 3,414 quarts grown on one-third of an acre.

Mr. John Perkins, of Moorestown, Burlington Co., N. J., kindly lent us the cut and gave us the above information.



THE LEADING SCIENTISTS OF TO-DAY agree that most diseases are caused by disordered Kidneys or Liver. If, therefore, the Kidneys and Liver are kept in perfect order, perfect health will be the result. This truth has only been known a short time and for years people suffered great agony without being able to find relief. The discovery of Warner's Safe Kidney and Liver Cure marks a new era in the treatment of these troubles. Made from a simple tropical leaf of rare value, it contains just the elements necessary to nourish and invigorate both of these great organs, and safely restore them and keep them in order. It is a **POSITIVE REMEDY** for all the diseases that cause pain in the lower part of the body—for Torpid Liver—Headaches—Jaundice—Dizziness—Gravel—Fever—Ague—Malarial Fever, and all difficulties of the of the Kidneys, Liver and Urine Organs:

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Late American Drumhead....	05	20	3.00
Marblehead Mammoth.....	05	20	3.00
Perfection Drumhead Savoy..	05	20	3.00
Red Drumhead,.....	05	20	3.00

	Pkt.	Oz.	Lb.
<b>Celery</b>			
La Plume Chestnut, New,....	20	1.00	
Crawford's Half Dwarf.....	05	25	4.00
Carter's Dwarf Crimson.....	15	40	
New Golden Dwarf.....	15	40	
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	35	5.00
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	

	Pkt.	Oz.	Lb.
<b>Carrot.</b>			
Early Short Horn.....	05	8	1.25
Improved Long Orange.....	05	8	1.25
Danvers Orange.....	05	8	1.25
White Belgian.....	05	8	1.00

	Pkt.	Oz.	Lb.
<b>Cucumber.</b>			
Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	8	1.00
Early Russian.....	05	8	1.00
Early White Spine.....	05	8	1.00
Green Prolific.....	05	8	1.00
Long Green.....	05	8	1.00

	Pkt.	Oz.	Lb.
<b>Chicory.</b>			
Large Rooted.....	05	8	1.00

	Pkt.	Oz.	Lb.
<b>Cress.</b>			
Curled, or Peppergrass.....	05	8	1.00
Water Cress.....	10	60	

	Pkt.	Oz.	Lb.
<b>Egg Plant.</b>			
Long Purple.....	10	50	
Improved N. Y. Purple.....	10	50	

	Pkt.	Oz.	Lb.
<b>Kohl Rabi.</b>			
Large Purple,.....	10	35	
Early White Vienna.....	10	35	

	Pkt.	Oz.	Lb.
<b>Lettuce.</b>			
Black Seeded Simpson, New,..	10	60	
Hanson.....	05	30	
Victoria.....	05	30	
Early Curled Simpson.....	05	30	
True Boston Market.....	05	30	
White Seeded Tennisball.....	05	30	
Black Seeded Tennisball.....	05	30	
Drumhead, or Malta.....	05	30	

	Pkt.	Oz.	Lb.
<b>Leek.</b>			
Large Scotch Flag.....	05	30	

	Pkt.	Oz.	Lb.
<b>Musk Melon.</b>			
Nutmeg.....	05	8	1.00
Skillman's Netted.....	05	8	1.00
Ward's Nectar.....	05	8	1.00
Improved Yellow Cantaloupe	05	8	1.00
Green Citron.....	05	8	1.00
Pine Apple.....	05	8	1.00
Jenny Lind.....	05	8	1.00
Surprise, [New].....	10	30	
Bay View, New,.....	10	35	

	Pkt.	Oz.	Lb.
<b>Water Melon.</b>			
Phinney's Early.....	05	8	1.00
Striped Gipsy.....	05	8	1.00
Ice Cream.....	05	8	1.00
Mountain Sweet.....	05	8	1.00
Ferry's Peerless.....	05	8	1.00
Citron. (for preserving,).....	05	8	1.00

	Pkt.	Oz.	Lb.
<b>Mustard.</b>			
White French.....	05	05	60
Black American.....	05	05	60



## Onion.

Extra Early Red Globe.....	10	40	6.00
Yellow Danvers.....	10	25	4.00
Red Wethersfield.....	10	25	4.00
Large Yellow Dutch.....	10	25	4.00
White Globe.....	10	40	6.00
White Portugal.....	10	25	4.00
New Queen.....	10	35	5.00

## Parsnip.

Hollow Crowned.....	Pkt. 05	Oz. 08	Lb. 0.80
Smooth Dutch.....	Pkt. 05	Oz. 08	Lb. 0.80

## Parsley.

Extra Fine Curled.....	Pkt. 05	Oz. 15	
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## Pepper.

Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne.....	10	25	4.00
Spanish Monstrous (New).....	10		

## Pumpkin.

Golden Marrow, New.....	05	15	2.00
Large Cheese.....	05	08	0.80
Sugar. (Fine for pies).....	05	20	
Connecticut Field.....	05	05	0.40

## Radishes.

Early Scarlet Turnip.....	05	08	1.00
Early White Turnip.....	05	08	1.00
Long Scarlet Short-Top.....	05	08	1.00
Early Scarlet Olive.....	05	08	1.00
French Breakfast.....	05	08	1.00
China Rose Winter.....	05	08	1.00
Black Spanish Winter.....	05	08	1.00
California Mammoth White.....	05	10	1.50
Grey Summer Turnip.....	05	10	1.50
Golden Yellow Summer (New).....	05	10	1.50

## Salsify, or Vegetable Oyster.

White French.....	05	20	3.00
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## Spinach.

Round Leaved.....	05	05	0.50
Monstrous Viroflay.....	05	08	0.80

## Squash.

Low's Essex Hybrid, New.....	15	30	
Early White Bush.....	05	08	1.00
Summer Crookneck.....	05	08	1.00
Hubbard.....	05	10	1.25
Marblehead.....	05	10	1.25
Butman, (New,).....	05	10	1.25
Cocoanut, (New,).....	10	30	
Mammoth.....	10	30	

## Tobacco.

Connecticut Seed Leaf.....	10	30	
Kentucky Broad Leaf.....	10	30	

## Turnip.

New White Egg.....	05	15	1.50
Early White Dutch.....	05	08	0.80
Purple Top Strap Leaf.....	05	08	0.80
Long White Cow Horn.....	05	08	0.80
Yellow Aberdeen.....	05	08	0.80
Yellow Globe.....	05	08	0.80
Golden Ball.....	05	08	0.80

## Rutabaga, or Swede Turnip.

White French, or Sw't German.....	05	08	80
Skirving's Purple Top Yellow.....	05	08	80
Brill's American Yellow.....	05	10	1 50
Shamrock Swede, Yellow.....	05	08	80

## Tomato.

Essex Hybrid, New.....	Pkt. 15	Hf.-Oz. .30	Oz. .60
Ford's Alpha, New.....	Pkt. 15	Hf.-Oz. .30	Oz. .60
Acme, [New,].....	Pkt. 05	Hf.-Oz. .20	Oz. .40
Red Chief, [New,].....	Pkt. 05	Hf.-Oz. .25	Oz. .50
Red Currant.....	Pkt. 05	Hf.-Oz. .25	Oz. .50
Paragon.....	Pkt. 05	Hf.-Oz. .25	Oz. .50
Canada Victor.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Conqueror.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Hathaway's Excelsior.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Trophy.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Arlington.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Green Gage.....	Pkt. 05	Hf.-Oz. .15	Oz. .30
Golden Rural, New.....	Pkt. 05	Hf.-Oz. .20	Oz. .40
Saint Paul, (New).....	Pkt. 15	Hf.-Oz. .30	Oz. .60

## Herb Seeds. Pkt. Oz.

Coriander.....	Pkt. 05	Oz. .20	Dill.....	Pkt. 05	Oz. .25
Horehound.....	Pkt. 10	Oz. 50	Sage.....	Pkt. 05	Oz. 20
Summer Savory.....	Pkt. 10	Oz. 30	Saffron.....	Pkt. 05	Oz. 25
Sweet Marjoram.....	Pkt. 10	Oz. 40	Lavender.....	Pkt. 10	Oz. 30
Caraway.....	Pkt. 05	Oz. 15	Sweet Basil.....	Pkt. 10	Oz. 40
Sweet Fennel.....	Pkt. 05	Oz. 20	Thyme.....	Pkt. 10	Oz. 50

## Potatoes.

Although the potato crop, generally, was nearly a failure in this section this season, most of our improved varieties yielded good returns, and we offer a stock fully up to the average in quality. At the following prices pounds will be sent post paid by mail, and larger quantities by express or freight with no extra charge for packing. Orders will be booked as received and filled at once if the weather will permit.

	Lb.	Peck.	Bush.	Bbl.
The "Belle,".....	50	1.25	\$4.00	\$10.00
White Elephant.....	50	1.25	\$4.00	\$10.00
La Plume Triumph.....	50	.75	2.00	5.00
Pride of America.....	50	.75	2.00	5.00
Saint Patrick.....	50	.75	2.00	5.00
Late Ohio.....	50	.75	2.00	5.00
Beauty of Hebron.....	50	.75	2.00	5.00
Early Ohio.....	50	.75	2.00	5.00
Mammoth Pearl.....	50	.75	2.00	5.00
Burbank.....	50	.75	2.00	5.00

## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

EXPLANATION.—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—

a—annual. b,—biennial c.—climber e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a.....	.05
Acroclinium album, white, a. e.....	05
..... roseum, rose, a. e.....	05
Adonis vernalis, scarlet, a.....	05
..... autumnalis, crimson, a.....	05
Ageratum Mexicanum, blue, a.....	05
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa p.....	.05
..... alba, white, p.....	05
..... atro-sanguinea, crimson, p.....	05
Alyssum maritimum, sweet, white, a.....	05
Amaranthus caudatus, crimson, a.....	05
..... melancholicus ruber, d'k crimson.....	05
..... salicifolius, scarlet and purple, a.....	.15
Ammobium alatum, (Immortelle,) white, e.....	.05
Anemone coronaria, p.....	.15
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a. 10 colors mixed.....	.05
Aquilegia hortensis, double, m. p.....	.10
..... chrysantha, new golden-spurred.....	.10
..... finest varieties mixed.....	.15
Aster, pæony-flowered, extra fine, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau, m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05



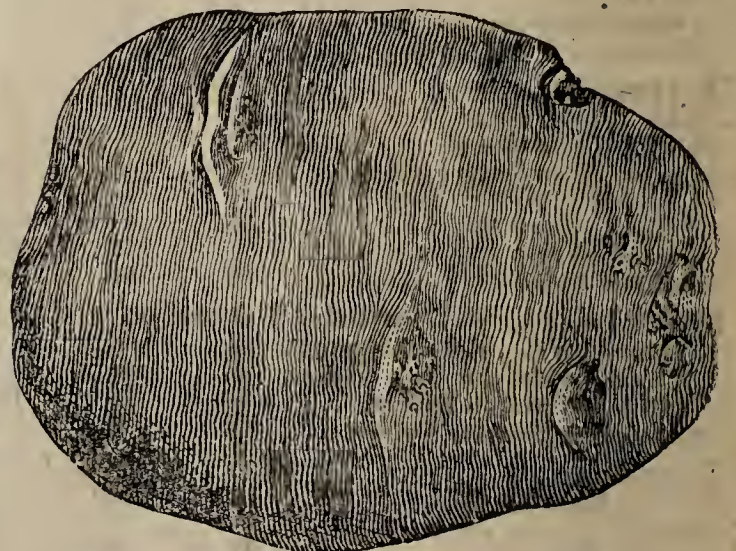
# SEED-TIME AND HARVEST.

Cacalia, (Tassel Flower.) scarlet and yellow a .	.05
Calandrina grandiflora elegans, rosy pink a .	.05
Calceolaria scabiosæ-folia, new, p .	.10
Callirhoe pedata nana, purple crimson, a, .	.05
Campanula trachelium, double, b .	.10
..... nobilis alba b. .	.10
..... medium, (Canterbury bells,) double .	.05
Candytuft, rocket selected, m, a. .	.05
Candytuft fragrant m. a. .	.05
..... hybrid dwarf. m, a. .	.05
Canna Indica, 5 colors mixed, a. .	.05
Carnation, double picotee, m. a. .	.15
..... early dwarf m. a. .	.10
Celosia cristata, —cockscomb— 6 colors mixed .	.10
..... variegata new, m a .	.10
..... crimson, gold and fire-feathered, m a. .	.10
Centaurea Babylonica, new p. .	.10
..... cyanus minor m p. .	.05
Centranthus macrosiphon m a .	.05
Chrysanthemum carinatum, m a. .	.05
..... double white new .	.05
..... Indicum grandiflorum, m p .	.10
Clarkia pulchella m a .	.10
..... elegans, new double, pure white .	.15
Cobæa scandens, purple c p .	.10
Coix lachrymæ, Job's Tears, .	.05
Colutea floribunda .	.05
Collinsia multicolor marmorata, a m .	.05
Convolvulus minor, m a .	.05
..... major, Morning-glory, m a .	.05
Coreopsis tinctoria m a. .	.05
Cucurbita, Ornamental gourds, m a .	.05
Datura fatuosa, double purple a .	.05
..... white a .	.05
..... Wrightii, new double, a .	.05
Delphinium (Larkspur,) dwarf double, m a. .	.05
..... tall German rocket .	.05
..... dwarf branching double, .	.10
Dianthus dentosus hybridus, m a b .	.10
..... sinensis double m a b .	.10
..... barbatus, [Sweet William,] p m .	.05
Digitalis gloxinoides, spotted, white & crimson .	.05
Eschscholtzia Californica, yellow a .	.05
..... tenuifolia, new a .	.05
Eutoca Wrangeliana, low blue annual .	.05
Geranium, zonale and inquinans mixed, a p .	.15
Gilia tricolor, blue, white and lilac m a .	.05
Globe Amaranth 6 colors m e a .	.05
Godetia, Lady Albemarle, new large crimson a .	.15
..... roseo albo. Tom Thumb a .	.05
Helichrysum lucidum m a e .	.05
..... dwarf m a e .	.05
..... monstruosum double m a e .	.05
Helianthus globosus fistulosus a .	.05
..... Californicus, double a, .	.05
Helipterum Sanfordii, yellow everlasting, .	.10
Hollyhock Chinese double a .	.10
Honeysuckle, Hedysarum coronarium m a .	.05
Ipomœa Quamoclit, Cypress vine m a .	.05
Jacobœa, Senecio elegans double m a .	.05
..... dwarf double m a .	.05
Lantana hybrid m .	.05
Linaria bipartita flora albo, a .	.05
..... purpurea, snapdragon a .	.05
Linum grandiflorum roseum a .	.05
Lobelia Erinus grandiflora superba .	.05
Lupins, Dunnettii superbus, new a .	.05
..... tricolor elegans new a .	.05
..... polyphyllus mixed p .	.05
Lychnis chalconica, white and scarlet m p .	.05
..... Haageana hybrida new p .	.10
Marvel of Peru hybrid, Four o'clock, m a .	.05
..... mirabilis jalapa a .	.05
Marigold, African double, m a .	.05
..... French .	.05
..... m a .	.05
Mignonette, Reseda odorata, sweet-scented a .	.05
..... large-flowering a .	.05
Mesembrianthemum, Ice plant, a .	.05
Mimulus cupreus hybridus extra a .	.10
Nemophila insignis, blue with white center a .	.05
..... discordalis, black—white margin .	.05
..... elegans —very brilliant— a .	.05

..... maculata white and purple a .	.10
Nigella Damascena, Love in a mist, a. .	.05
..... Hispanica a .	.05
Oenothera Drummondii, Evening Primrose a. .	.05
..... macrocarpa .	.05
..... acaulis .	.10
Pansy large flowering, very fine mixed, a p .	.10
Peas sweet .	15 cts. per oz .05
Petunia hybrid, very fine mixed colors a p .	.05
..... double striped .	.25
Phlox Drummondii splendid mixed colors a .	.05
..... perennial .	.05
Portulaca grandiflora m a .	.05
..... double extra m a .	.05
Primula Japonica, new Japanese primrose a b .	.05
..... elatior, cowslip m a b .	.05
Rodanthe Manglesii, everlasting m a .	.05
..... maculata .	.05
..... m a .	.05
Ricinus sanguineus, castor oil bean a .	.05
..... major, largest variety a .	.05
Salpiglossis hybrid blue and scarlet m a .	.05
Salvia coccinea a p .	.05
Scabious major, mourning bride m a .	.05
..... minor, dwarf double m a .	.05
Silene Armeria, Lobel's catchfly m a .	.05
..... pendula double rose a .	.10
Schizanthus papilionaceous m a .	.05
Stocks Brompton m b .	.10
..... German ten weeks m a .	.10
..... Parisian .	.10
..... m a .	.10
Tagetes lucida m a .	.05
..... signata pumilla a .	.05
Tropæolum Lobbianum, spit-fire a .	.05
Tropæolum majus, Tall Nasturtium. a .	.05
Verbena hybrid, extra choice mixed a .	.10
Virginian stock m a .	.05
Wallflower double m p .	.05
..... pure bright yellow, new .	.10
Xeranthemum annuum Imperial double e .	.10
..... mixed varieties a e .	.05
Zinnia elegans, double m a .	.05
..... dwarf m a .	.05

## ORNAMENTAL GRASSES.

Agrostis Pulchella. . . . .	.05
Briza Maxima. . . . .	.05
Gynerium, or Pampas Grass . . . . .	.05
Stipa Pennata, or Feather Grass. . . . .	.05
Striped Leaved Japanese Maize. . . . .	.05



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7 of mdse

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**Topping's Portable Evaporator,**

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al Stock, all sizes, in quantities to suit.

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8-tl Mention Seed-Time and Harvest.

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Fine one year old PEACH TREES, 20,000 of them  
the WATERLOO TWO HUNDRED ACRES  
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Small Fruits and Osage Orange, Specialties.  
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Also Prentiss, Pocklington, Lady  
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**CUTHBERT, OHIO, GREGG,**  
Taylor, Snyder, Bidwell, Primo, Manchester,  
Seneca Queen, Jersey Queen; Kieffer's Hybrid  
and other Pear Trees; Cherry; Plum; Peach;  
Champion Quince; Currants, Gooseberries,  
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Each additional Pullet,	1.50.

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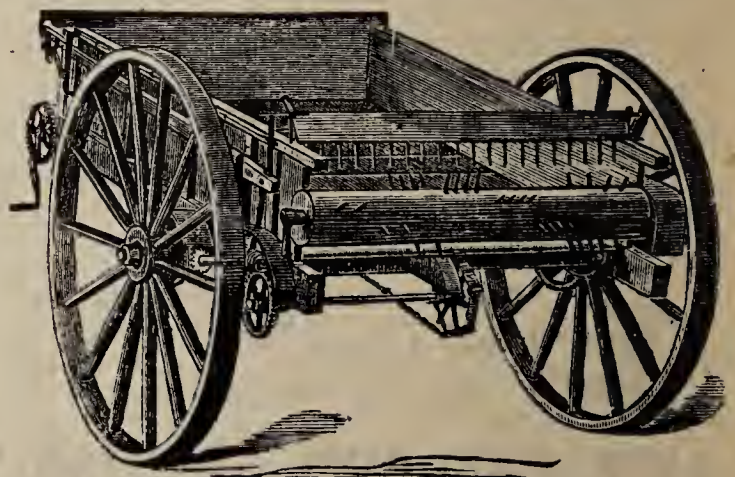
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# SEED-TIME AND HARVEST.

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OF THE

RICHEST AND MOST PRODUCTIVE LAND in the United States. It is prairie land surrounded by

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in a Mild, Healthy Climate where the

**CROPS NEVER FAIL,**

from drought, insects, hail-storms, nor from any other cause. This land will produce 100 bushels of Barley or Oats, 72 bushels of Wheat, 4 tons of Hay, 700 bushels Potatoes per acre, and other crops in proportion. Has the advantage of **CHEAP TRANSPORTATION RATES**

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I have for Sale cheap in the village of Factoryville, Wyoming County, Pa., on the Delaware, Lackawanna & Western R. R., fourteen miles from the city of Scranton a very desirable

## HOUSE & LOT

which I offer on easy terms to a good customer.

The house contains Fourteen Rooms, a large verandah and an excellent Cellar. A never-failing well of soft water is at the door. The Lot contains nearly three-fourths of an acre, is situated on the main street and is only five minutes walk from Keystone Academy and about the same distance from the Post Office. A number of choice fruit trees are just coming into bearing.

Factoryville contains three churches, a Graded School and several stores and cultured society. This is an excellent opportunity for any one desiring to secure a home where children may be cheaply educated. Should the purchaser wish to keep boarders they may always be obtained at paying rates. Good reasons for selling.

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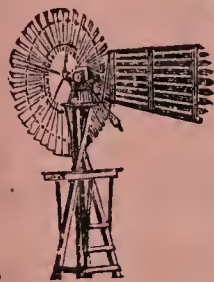
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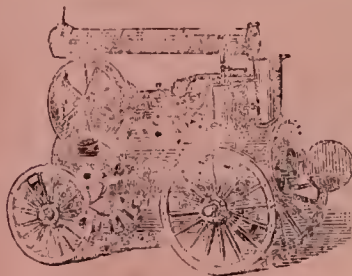
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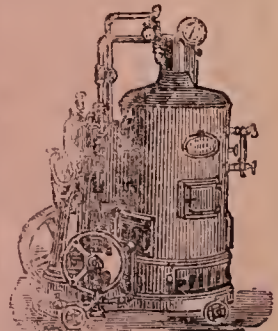


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8-H. P. Mounted,

10 " " "

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# “GOLDEN GRAINS!”

The Largest Grain and Most Productive White Wheat in the World.

—:o:—

A year or two since our attention was called to a sample of white wheat which for size and beauty really beat anything we had ever seen, and we were tempted to procure a supply and at once offer it to our patrons, but fearing that it might not do well in this climate, we concluded to wait until it was further tested.

We now believe that it has proved fully equal to its recommendation. It is a very hardy and most productive variety, with long, stiff straw, standing well, stools heavily, growing from twenty-five to seventy stalks from a single grain; the ears are of good length, closely filled with full plump grains with but little chaff.

Messrs. Haines & Co., the seed firm who first introduced it, offer

FIFTY DOLLARS, CASH,

for any wheat that will equal it. We think they take no risk as the grains are

## THREE TIMES AS LARGE

as our ordinary wheat. In Pennsylvania and all northern localities it succeeds best as a Winter Wheat, though we have heard of its doing well when sown in the Spring.

A peculiarity of it is that when green it is heavily bearded, as shown in the right hand cut, but just before ripening the beards nearly all fall, leaving it with the appearance of the cut at the left.

Messrs. Haines & Co. have been experimenting with this variety for several years, and in a recent note they write: “We consider it one of the most valuable introductions of late years in the cereal line, as we are getting good reports from all parts of the country, even where the standard wheats are a failure.”

One of our customers in Cumberland Co., Pa., has now tested it for two years and writes us under date of Sept., 9, 1881; “The ‘Golden Grains’ did well again this season. I am confident it can be successfully grown in this climate.”

We can only offer a limited quantity this fall, which will be promptly sent, postpaid, by mail, at the following prices:

2 oz. package, 25 cts.      ½ lb., \$1.00.  
1 lb., \$2.00.

Address,      ISAAC F. TILLINGHAST,  
La Plume, Lack'a Co., Pa.





Number Nine,  
Seed-Time and Harvest.

1882.



(HELICHRYSUM.)

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A Quarterly Agricultural and Horticultural  
Magazine.

Seed-Time and Harvest Publishing Co.,

LA PLUME, LACK'A CO., PA.

[Entered at the Post Office at La Plume, Pa., as second-class matter.]



1848

Osgood's Patent

1882.

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To be paid for when proved correct  
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A SPECIAL DISCOUNT will be made and *Freight Paid*, where they are not introduced, (or where we have no agents), so that those who are prejudiced against them can set one up in working order, and know that our "CHEAP SCALES" are *better* for hard use, MORE ACCURATE and MORE DURABLE than any other Scale now manufactured. For Illustrations and references,

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Makes Three Machines. Is the Best Pump in the World.

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Lewis's Patent Spray Attachment,  
can change from solid stream to spray instantly

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I will send a sample Pump, express paid to any express station in the U. S. or Canada for \$5.50  
Regular retail price is \$6.00. Weight, 4½ lbs.

Length, 32 inches.

I also manufacture, separate, the



Price--post paid-- Zinc, \$1.25; Polished Brass, \$1.75

**Over 15,000 Sold in Seven Months.**

I challenge the world for its equal. Can do from 3 to 5 acres per day. One pound of Paris Green will give an acre three separate dressings. For syringing Fruit Trees infested with insects of any kind it stands unrivaled. Send for illustrated circular, Price List and Terms to Agents, etc. I give the name and address of many of my agents who make from \$10. to \$30. in a single day; also a long list of my customers, each of whom have bought from \$50. to \$2000 worth of these goods in from one to three weeks time. You can make from \$10. to \$20. per day. Agents wanted every where.

P. C. LEWIS, Catskill, N. Y.



# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

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NO. IX.

JANUARY,

1882.

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ANEMONE CORONARIA.



### Recompense.

**T**HE earth gives us treasure four-fold for all that we give to its bosom;  
 The care we bestow on the plant, comes back in the bud and the blossom.  
 The sun draws the sea to the sky, O, stillest and strangest of powers:  
 And returns to the hills and the meadows, the gladness of bountiful showers.  
 The mother regains her lost youth, in the beauty and youth of her daughters;  
 We are fed after many long days, by the bread that we cast on the waters.  
 Never a joy do we cause, but we for that joy are the gladder;  
 Never a heart do we grieve, but we for the grieving are sadder.  
 Never a slander so vile, as the lips of the willing rehearser;  
 And curses, though long, loud and deep, come home to abide with the curser.  
 He who doth give of his best, of that best is the certainest user;  
 And he who withholds, finds himself of his gaining the pitiful loser.  
 The flowers that are strewn for the dead, bloom first in the heart of the living;  
 And this is the truest of truths, that the best of a gift is the giving.

CARLOTTA PERRY.

### A Wild Garden.

**T**here is such a multiplicity of varieties of Flower Seeds, offered in most catalogues that a novice is at a great loss to make selections, well knowing that there is not room in the flower garden for sowing a packet of each of the most desirable things even, and so the idea of mixing all the varieties in the catalogue, and sowing the seeds together has been tried with such marked satisfaction that the idea has become quite popular. Such a plantation is termed a Wild Garden. A correspondent of the Rural Home describes his success in that direction. He says: "My mother is a lover of flowers and gardens, and as a rule, reads almost everything on the subject within her reach, hence the article of R. Rennie, in an April number of this paper, did not escape her notice. He told of wild gardens, and how they were formed, advertising seeds.

She sent, and in due time received a paper of many different kinds, well mixed from a distance of fifteen hundred miles or more. The plan was very novel,—of sowing without regard, for we had always carefully sorted and labelled our flower seeds, taking great pains to plant and transplant at reasonable distances apart, keeping each kind distinct. But here is R. Rennie, advising to scatter, in a patch of convenient size; we do so, hedging about with a little stake fence.

Weeks pass on. May's wet and June's sunshine tell wonderfully upon them. Nature's chemistry slowly unfolds and dainty little stalks, and delicate green leaves are seen. Here an aster, just beside it a poppy then coreopsis, coleus, ageratum, tassel flower, balsam, and many others arranged as they grew after the hasty sowing.

"Just as the twig is bent the tree's inclined." Much depends in the sowing on the bending; more than many seem aware of.

The warm July weather brought forth the flowers, and in August our wild garden was blooming finely. It was a short distance from the back-door, in the back-yard. So we had the benefit, when going out and in about the morning work. The neighbor wonder what it was so pretty, blooming almost out of sight, and marveled greatly that we did not let it grace the front door-yard.

The poppies grew tall and stately, waving and nodding their fringed heads quite defiantly at the modest blue and white flowers nearer earth; and the California poppies, bright and yellow were not a whit behind. And the balsams were very handsome. From deep shades, paling to most delicate tints. Later came the asters, as thrifty and large as those grown in boxes and tended with great care. For weeks they smiled and lifted their full, beautiful faces to the sun, till a frosty night caused us to gather them all for a bouquet to adorn the sitting-room shelf. The coleus plants of dark, almost black leaves, mingled with the light-hued flowers, made a pleasing contrast.

The hit-or-miss plan is a very good one for a wild or back-yard flower-garden. It is also good for a front yard, if one has but



little time to spend in the cultivation of flowers. The flowers are just as tame as though the garden possessed a different name; will not run away if approached."

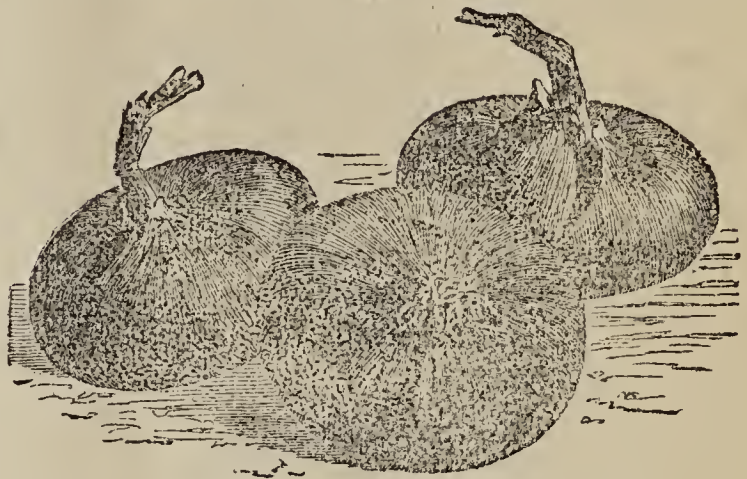
Thinking many of our readers may wish to try this style of flower gardening we have decided to put up packets of "wild garden seeds" which will consist of some two hundred varieties well mixed, see end of flower list for prices &c.

### Mixed Vegetable Seeds.

**N**EARLY all seedsmen who issue catalogues of Flower Seeds realize the fact that few individual planters can afford the time and room necessary to plant so great a number of varieties as they offer, and so put up mixed varieties of most kinds, and our experience is that these mixed seeds are much more frequently called for than the separate varieties.

We have recently been thinking that if vegetables were also similarly put up it might prove very beneficial to those who only plant a small garden for family use, and we shall test the plan by putting packages of mixed varieties of such as Beets, Cauliflower, Cabbage, Carrots, Cucumbers, Melons, Onions, Radishes, Turnips, Tomatoes &c., and see what our customers think of them after trying the experiment. Take the item of Radishes for instance. Many gardens are not extensive enough to admit of planting more than two or three varieties which do not furnish a successive supply nearly so long as would a single package consisting of a dozen good sorts mixed and planted together. The earliest can then be pulled as fast as fit and will make room for the later ones to come on. So with Cabbages, who can find room in a family garden for half of the popular standard varieties, and who would not prefer to plant a single package or ounce which is made up of a dozen or twenty good early and late varieties well mixed? They could then be used as fast as ripe and as wanted from June to November. We would of course advocate this plan only in family gardens for home use. Market gardeners usually understand the wants of

the market which they are to supply, and want to grow one variety only, as a straight pure lot will sell at better figures, and they also wish to clear the land for a second crop as soon as possible after breaking into the growing field. Of course to give satisfaction the seeds must be grown separately and mixed afterwards as they will degenerate rapidly if mixed in growing as no proper standard could be kept for seed stocks.



RED WETHERSFIELD.

### Growing Onions from Seeds.

**T**HE Onion is certainly one of the most important vegetables grown by market gardeners, in this country, and as this crop has for the past two years met with a ready sale and brought an especially high price, we feel that any hints which we can give concerning the successful growing or handling of this crop, will be well received.

#### PREPARING THE GROUND.

In no other, with which we are acquainted, is early sowing a more indispensable requisite of success than in the onion crop, therefore, if possible, the ground should be selected and preparations begun in the fall for the crop of the ensuing year. But if, by chance it has been neglected the earliest possible opportunity should be grasped in spring, that the sowing may be finished, and the young onions get well under way before the drying winds of early summer come.

Old onion growers, after getting a piece of ground fitted up for onions, retain the ground for the same purpose for many years, and as singular as it seems, it is claimed that in practice a much better crop can be procured on ground which has thus been treated than that on, which onions have not previously been grown.

#### MANURING.

Of course in either case there must be a liberal coating of manure worked into the soil annually, as the onion is a gross feeder and will not produce a heavy crop without



a corresponding supply of plant food in some shape. In selecting a fertilizer great care must be exercised in discarding any which may contain the seeds of weeds. This advice will also apply to the ground selected with equal force, as the labor of making an onion crop is lessened an hundred fold where the land can be kept clean. Poultry manure cannot be excelled as a fertilizer for onions, but it is sometimes faulty in this respect. Very light sandy soils are not well adapted to onions. A dry crust is apt to form about the time or soon after the young plants come up, and the Sun heats the surface so hot that the plants frequently blight and die before they get well rooted. Reclaimed swamps which are composed of clay and decayed vegetable matter and have a rich black appearance, usually furnish a very congenial home for the onion, and we have known very large crops to be produced on such soils with little or no manure and very little labor, there being no garden weeds to contend with.

The next point and perhaps the most important consideration of all in a perspective onion crop is the

#### SELECTION OF SEED.

Whatever you do, or do not do, do not sow an ounce of seed upon the quality of which there is the *slightest doubt*. If it is not entirely above suspicion reject it. Many kinds of seeds, if well grown and cured, are good from three to five years, but Onion and Parsnip seeds can be implicitly relied upon but one year. And then it is important, to produce fine onions, not only that the seeds be fresh and new but that they are carefully grown from selected bulbs and properly ripened and cured. We have known seeds which we positively knew were fresh, yet from some deficiency in ripening failed entirely to germinate. For this reason we make it an invariable rule to test them a ways before selling or planting, and would advise all persons to do the same, no matter how good reason they may have to *suppose* them all right. It is very little trouble to do this compared with that which may ensue when it is neglected.

#### TESTING SEEDS.

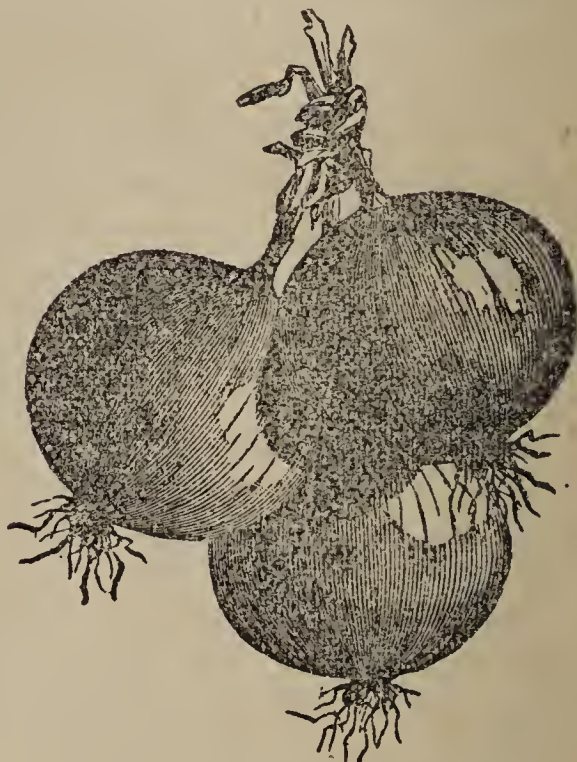
Our practice in testing seeds of all kinds is to take an old type case, which is a shallow box divided into a great many compartments, and fill it nearly full of white sand. This is wet with warm water and a few seeds of different kinds sprinkled on the sand in each compartment. The whole is then covered with a wet cloth, which has been several times folded so it will hold moisture, and placed in a warm light place, any kitchen or living room will usually answer, and left for developments. In a very few days you may know to a certainty by lifting the

cloth just what percentage is good by counting those which have sprouted and which have not. Where but one or two varieties are to be tested at a time, a couple of damp sods may be placed together with the seeds between them, or even two thick cloths used with an equally good effect providing they are watched and kept from drying.

After the ground has been thoroughly prepared and worked to a sufficient depth, and the lumps and stones raked out, the next important step is

#### SOWING THE SEEDS.

Perhaps in no part of the work is a novice more likely to fail than in this. If the plot is large some one of the several improved seed sowers should be employed, but if small hand sowing is to be preferred. For hand sowing we should construct a marker like a large rake with teeth 12 inches apart.



YELLOW DANVERS ONION.

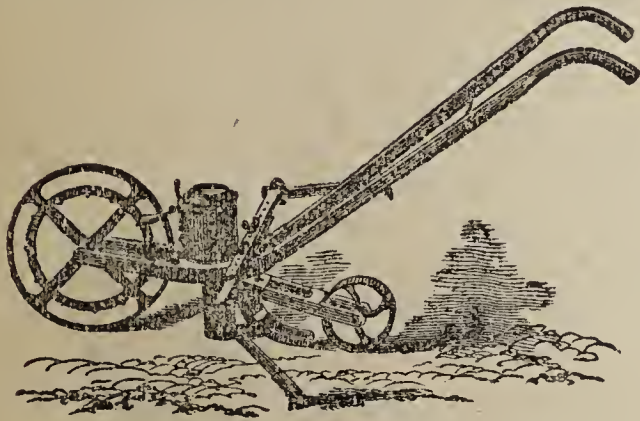
Draw a line across one side of the field as a guide and let one tooth follow it. The last mark made will do for a guide the next time across. In this manner mark the field both ways and then plant as many seeds as you can hold between the thumb and forefinger at each intersection, at the same time rubbing about a quarter inch of soil over them and then pass to the next hill. Three or four rows can be taken at a time, and be sure to place the ball of your foot upon each hill after planting and rest your whole weight upon it, thus

#### FIRMING THE SOIL.

This is the important point in planting. When it is done with a seed drill we are too prone to suppose the light roller which is attached has sufficiently firmed the soil around the seeds. But it has not, and every inch of the row should be trod upon. We have in many instances known good seeds to fail or come up very irregularly for



the lack of this alone. On soils which are inclined to bake or form a crust on the surface, planting in hills, as above described is preferable to drill planting, the seeds seeming to come up better when a number are together, and then it is much less work to hoe and weed a crop where you can go through them both ways. But where the business is carried on extensively a good Seed Sower is almost indispensable. There are several made which will sow onion, as well as other kinds of seeds, with the greatest accuracy in perfectly straight drills and if care is taken in firming the soil after them an immense amount of labor may be saved over hand planting. Much time is also saved, and the crop may all be put in when a days delay might bring a storm and thus put off the work for a week when it should be finished.



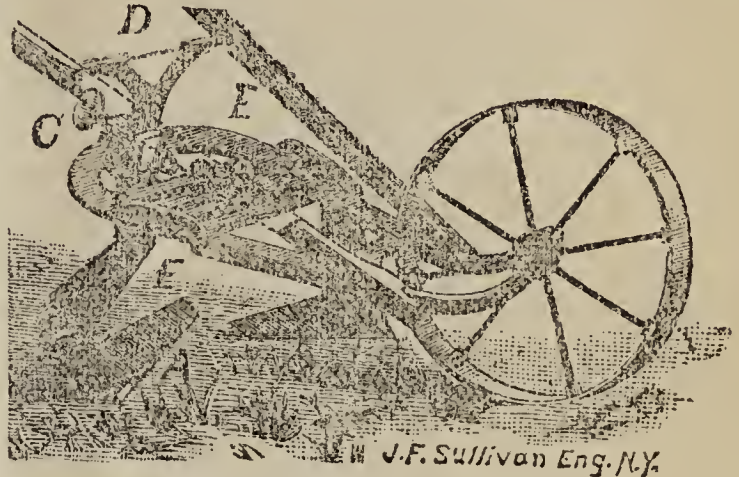
MATTHEW'S SEED SOWER.

The above cut shows Matthew's Improved Seed Sower, which is one of the best made for rapidly and accurately sowing onion and other small seeds in straight drills. We use it for sowing Cabbage, Celery, Onion, Beet, Turnip, and in fact nearly all kinds of seeds. Even Peas, Beans and Corn, may be evenly sown, as it has a changable dial which may be instantly adapted to any sized seeds or to sow any desired quantity per acre. It opens the drill, drops the seeds, covers and rolls them, and makes a mark in which to run the wheel for the next row, all at one operation, but as we said above, for onions the drills should receive an additional firming with the ball of the foot to insure a successful germination. No gardener should be without a good sower, for although one like this costs \$12.00, he may save that amount by its use in a single season on a very small place. This sower has no cultivator attached to it, but as every gardener needs a good hand cultivator we present a cut of one which will give perfect satisfaction.

RUHLMAN'S HAND CULTIVATOR.

This implement has been in use upon our grounds for several years, and is one of the most indispensable things we own. The knives or hoes can readily be set to cut to any width desired from six to sixteen inch-

es. It will work up to within one-half inch of the rows without injuring the plants and one man will do more work with it in a given time than six men without it. Its cost is only \$5.50, so it is capable of paying for itself in one or two days time. It is strongly built, of the best material, the hoes being made of tempered steel will wear well and remain sharp for a long time.



RUHLMAN'S HAND CULTIVATOR.

If you have the misfortune to be compelled to sow onions on ground which is likely to become weedy, it will be a good plan to mix radish seeds with the onion seeds before sowing. A half ounce to the pound will answer. These radish seeds will spring up in a few days and mark the rows so the work of the cultivator can begin before the onions are up and one hours work then may be worth twenty-four a few days later. The radishes can be pulled and utilized before the onions are large enough to need the room, this being clean profit as well as benefit.

### HOEING AND WEEDING.

Early and constant weeding and hoeing indispensable to success on an onion crop. It should be done as thoroughly as possible taking pains to stir the ground close to the onions. This will kill all the small weeds, even before they can be seen. Thin out the onions so they will stand at least three quarters of an inch apart; the larger you want the onions the thinner they should stand. If you live near a city or large village you can sell these onions in bunches at fair prices.

After the first thorough weeding it pays well to apply some good compost or fertilizer to keep them growing rapidly. A mixture of salt, plaster and leached ashes is used and recommended by many good onion growers. A compost of well rotted hog- or hen-manure, phosphate, or guano, will also answer, if well worked in and covered with soil to keep it from wasting, as it will if left lying on the surface exposed to the sun and winds. Two thorough weedings are usually necessary after which the wheel hoe if kept running about



once a week will keep them in good trim. As soon as the tops die down they should be pulled and left in rows upon the ground, which is usually dry and warm at this season, to cure.

With proper care and attention to all the details as herein given, the yield should be from 800 to 1200 bushels per acre, and as they now sell quickly at one dollar per bushel you can readily see that they are a very profitable crop.



YELLOW DUTCH ONION.

It is usually safest for inexperienced growers to sell the crop as soon as ready for market. To keep over winter they must either be frozen and then covered so they will remain frozen till spring and then thaw gradually in the dark; or spread in thin layers where they can be kept from absorbing moisture and from frost. To freeze and thaw quickly, or to lie in a damp condition over winter will ruin them.

#### VARIETIES.

There are a number of popular varieties, and the minds of different growers hold a diversity of opinions as to which is the best and most profitable.

#### YELLOW DANVERS.

For all sections of the country and all purposes, for home and market use, the true Early Round Yellow Danvers, is probably more universally grown and admired than any other. If grown from selected bulbs, as all onion seed should be to give satisfaction, they will grow nearly globe shaped as in the above illustration of this variety, but unless great care is exercised to select the roundest and best formed specimens for seed, they will quickly run down to a flat onion very nearly resembling the Yellow Dutch.

#### RED WETHERSFIELD.

Next in popularity to the Yellow Danvers, and in some sections even exceeding it, is the Large Red Wethersfield. It is extensively grown as a field crop in the Eastern States, especially in Connecticut. It grows to a large size, is of a dark red color and one of the best for long keeping.



WHITE GLOBE.

When well grown this is a beautiful onion and sells well in any market. It is however, considerably later than either of the above, and consequently much more difficult to cure. The seeds of this variety have for several years been very scarce and high.

#### YELLOW DUTCH OR STRASBURG.

This resembles the Danvers except that it is somewhat later, grows flatter, and usually larger in diameter.

#### EARLY RED GLOBE.

This is a very early round red onion. It does not usually grow quite as large as some others but is a nice variety for home use.

#### SILVER SKIN OR WHITE PORTUGAL.

This is more extensively used, for growing setts, which are kept over winter and largely grown in some localities instead of seeds. Yet it produces fine onions in one season from the seed like other kinds.



THE NEW QUEEN.

This is the earliest variety in cultivation. It came originally from Italy. Seeds sown in March will make onions large enough to sell in bunches almost as soon as from setts. It never grows large enough to become a profitable market sort when ripe. Yet it is valuable in its place.



# SEED-TIME AND HARVEST.

## OTHER ITALIAN VARIETIES.

The *Giant Rocca* and *Large White Flat Italian* or *Tripoli*, are two of the largest varieties known, and have been found to do well in this country, especially when sown in the fall and wintered in the bed, or sown very early in spring. We think they are particularly adapted to the climate of our Southern States, and would recommend a trial of them in any section on a limited scale at first.

The question of profitably growing onions the same year from the seed in the South having been raised by several correspondents of SEED TIME AND HARVEST, we submit some notes recently received from subscribers, giving their experience upon the subject:

Livia, Mc Lean Co., Ky. March 4, 1881.

Isaac F. Tillinghast:

In your number of Jan. I notice an article on onion culture, a patron asking the question if onions can be matured in one year from the seed in the South. That seems to be a question which is frequently asked and in fact often doubted. I can see nothing to hinder the production of the bulb even farther south than this the same season, but the seeds must be sown early in the season to overcome the long dry weather which has a tendency to crisp the young sets or plants. Two years ago I sowed the seeds for the first time in this latitude. The spring was late and I did not get my ground ready and seed sown till about the twelfth or fifteenth of May. I had good soil for the production of onions and I selected the *Yellow Danvers* and *Red Wethersfield*. The *Danvers* did not do so well as the *Wethersfield*, but yielded a good crop; I could not ask a better yield than of the *Wethersfield*. Many attained the size of two-and-a-half to three inches in diameter, and but few small ones much to the astonishment of many of my neighbors, that a crop could be matured from the seed in the same year. I have grown several other kinds but not so far south as this. The largest growth I ever attained was of the *New Italian Onion*, which grew from the seed in four months to the monstrous size of six inches in diameter; they were very succulent and tender and a good fall and early winter crop, but not good keepers. I am informed by some that have grown them in this latitude that they do not stand the weather so well as some other sorts. The best variety I have tried is the *Wethersfield*, they are of good flavor, attain a good size, very hardy, standing the drouth well and excellent keepers, will keep nearly a whole year. Upon the whole, as a general crop I prefer them to any others I know of and I expect to raise them again this year. Some save the seed

and fail to raise a crop, so condemn the practice of saving seed except for setts; but if sown in season and in proper ground and well attended, they will not fail to raise a crop.

L. B. Childs, M. D.

Manechester, Mo. March 11, 1881.

Mr. Tillinghast,

Seeing your notice as to onion culture I will give you my opinion as to the best way. Spade the ground, then let the cleaning of the hen roosts with some leached ashes be well raked in, then I sow thin with my hand in rows, cover thin, then cover with a thin coat of straw which will keep the wind from drying out the ground and the seeds have a better chance to come up, the straw will prevent weeds from growing while care must be taken not to get too much on the seeds to prevent them coming up. Having age and practice on my side, this I have found a good way to raise onions from seeds.

From Your Friend,

Mrs. Sarah Higgins.

P. S. Your catalogues were thankfully received, have distributed some.

## Not Generally Known.

Nearly every one who is interested in gardening wants to get in a few seeds as early as possible but the soil is often too wet. Years ago, I discovered that when the ground freezes to the depth of an inch, the soil, for at least a foot under the crust, is in the best possible condition to work. The superfluous water being drawn to the surface and frozen. Early in spring, one can go out on a frosty morning with a mattock and remove the crust, dig the ground and put in peas, onions &c., although the same soil was too wet to walk on the day before.

M. Crawford.

THE depredations of cut worms are very damaging in some localities. The young worms are bred in the latter part of the summer, and after wintering through they are ready to attack and destroy the first tender vegetation in spring. It therefore follows that if the ground is plowed as early in autumn as possible and kept clean of vegetable growth, they may be greatly checked, as they will have nothing to feed upon. Late fall plowing will also subject them to the winter frosts and destroy many.



# Seed-Time and Harvest,

**Published Quarterly**  
FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER AGATE LINE.

Conducted by ISAAC F. TILLINGHAST.

LA PLUME, LACK'A CO., PA., JANUARY, 1882.

THE CIRCULATION OF THIS ISSUE IS  
**60,480 Copies.**

## TO ADVERTISERS.

The charge for advertising in this paper is but five cents per inch for each 1,000 copies actually circulated. The next issue will be a rouser. The rate will hereafter be 30 cents per agate line without regard to size of advertisement. Copy must reach us by March 1st.

OUR CATALOGUE, containing descriptions of all the different varieties of Seeds and Potatoes, will be ready early in January, and will be sent free to any one who will request it by postal card. If you do not wish to order from the abridged list given in this number send for a catalogue.

## HOW TO SEND MONEY.

We take currency, silver, postage stamps, drafts, checks and money orders, but no promises. If you send money orders, make them payable at Scranton, Pa., as we do our banking business there and deposit them same as checks.

*There is no unbelief;*

*Whoever plants a seed beneath the sod,  
And waits to see it push away the clod—  
He trusts in God.*

The last number of *Seed Time and Harvest* was largely devoted to Fruits, and we trust contained much of value and interest to Fruit Growers. This may be called a Vegetable number as we give a large amount of space to vegetables, and notes on their cultivation. Our next issue will contain more Floral matter, and we shall strive to make each more valuable and interesting, if possible, than its predecessor.

We have by no means given up the idea of publishing *Seed-Time and Harvest* monthly, and hope to see such a rush of subscribers at our present favorable rate of subscription that the change may be effected at no distant day. Will you not help to bring about this result?

Although the subscription price of *Seed-Time and Harvest* alone is 25 cents per year, we shall for a limited time, or until further notice, send it without charge to every person who will order seeds from our list, which is given elsewhere in this issue, to the amount of 50 cents. Thus you will get twice your moneys worth. If you will act as our agent and show the magazine and this offer to your friends and induce them to subscribe we will pay you handsomely for your trouble. See announcement headed "Special to Agents" at the bottom of page 32 and take an agency at once.

By special arrangements with the publishers of *Green's Fruit Grower* which is advertised elsewhere in this issue, we are enabled to offer both it and *Seed-Time and Harvest* one year for 25 cents, the regular price of either when ordered alone. The *Fruit Grower* is an eight paged, 32 column paper published at Rochester, N. Y., and is literally filled to overflowing with interesting matter on fruit growing. Its editor, Chas. A. Green, is the popular Horticultural correspondent of the *N. Y. Tribune*. The *Fruit Grower* is well worth its low subscription price. 25 cents alone, and we trust the favorable arrangement which enables us to make this offer will be appreciated by our customers.

This number will be sent as a sample to many persons who may wonder how we got their names. In explanation we will say that our friends J. T. Lovett, and A. I. Root, (publisher of *Gleanings in Bee Culture*) and others, have kindly furnished us with lists of their patrons for this purpose and we hereby tender them our thanks for the kindness.

The country is now full of swindling concerns and people are frequently deterred from sending for things they really desire on account of having been humbugged previously, and so resolve to be over cautious rather than otherwise. Now should any who do not know us, entertain fears of this character, we respectfully ask them to send their money to the Post Master at La Plume, with orders to hold it un-



til the goods have been forwarded. We will then send on the goods the same as though we had the money.

It has been suggested that there may be some who would prefer paying a dollar or more for even a quarter pound of Wall's Orange Potato this spring than to wait a year and then pay a dollar a pound for it, as they will want it at any price and the sooner they procure it the cheaper and more profitable it will be in the end. We have therefore decided to send to those who desire, in quantities of  $\frac{1}{4}$ , and  $\frac{1}{2}$ , or not to exceed 1 pound to one address, at \$4. per lb. post paid, and packed in wooden boxes to prevent injury in the mails. This may be regarded as a private offer to those who wish to take time by the forelock, as thousands will without doubt pay \$1. per lb. for it next season.

See description on another page.

### OUR CLUB LIST.

We will supply SEED TIME AND HARVEST in combination with any of the following periodicals, both at the price given below. All persons to avail themselves of these rates must include SEED TIME AND HARVEST with at least one other paper at the price given, unless already a subscriber, and then if they wish additional papers from the list, they may be added at 25 cents less than price quoted for both. For instance; should you want the New York Weekly Tribune, American Agriculturist and Farm Journal, you will first put down \$1 35, for the Tribune and SEED TIME AND HARVEST, then the Agriculturist may be added at \$1 05, as it is quoted at \$1 30, and the Farm Journal at 40 cents, and as many more as you desire at 25 cents less than figures opposite the papers. This is a rare opportunity to order your papers at a very low rate.

American Agriculturist.....	\$1 30
American Bee Journal.....	2 20
American Home Journal.....	1 15
American Rural Home.....	1 25
American Farmer.....	1 60
Arthur's Magazine.....	1 75
Appleton's Journal.....	2 70
Appleton's Popular Science Monthly....	4 60
Appleton's North American Review....	4 40
Appleton's N. Y. Medical Journal.....	3 50
Art Interchange.....	1 90
Atlantic Monthly.....	3 75

Art Amateur.....	3 50
Babyland.....	70
Ballou's Monthly.....	1 70
Bee Keepers Exchange.....	1 15
Boston Journal of Chemistry.....	1 20
Burlington Hawkeye.....	1 65
Builder and Woodworker.....	1 65
Boston Medical Journal.....	4 60
Breders Live Stock Journal.....	1 20
Christian at Work.....	3 00
Christian Weekly.....	2 25
Christian Union.....	3 25
Country Gentlemen.....	2 40
Chicago Inter Ocean.....	1 50
Coleman's Rural World.....	1 30
Demorest's Magazine.....	2 00
Detroit Free Press.....	1 70
Domestic Monthly.....	1 40
Farm and Garden.....	70
Farm Journal.....	65
Farm and Fireside.....	65
Family Herald and Star (Montreal)....	1 20
Frank Leslie's Weekly.....	3 70
Frank Leslie's Ladies Magazine.....	2 50
Frank Leslie's Sunday Magazine.....	2 85
Fruit Recorder.....	90
Gardener's Monthly.....	2 10
Gleason's Companion.....	90
Gleason's Home Circle.....	1 50
Gleaning's in Bee Culture.....	1 35
Godey's Ladies Book.....	1 90
Golden Days.....	2 50
Golden Rule.....	1 40
Green's Fruit Grower.....	40
Husbandman.....	1 35
Home and Farm.....	70
Household.....	1 15
Harper's Magazine.....	3 60
Harper's Bazar.....	3 70
Harper's Weekly.....	3 70
Harper's Young People.....	1 60
Herald of Health.....	1 15
Housekeepers.....	1 15
Independent.....	3 00
Indiana Farmer.....	1 60
Iowa Farmer.....	1 15
Journal of Microscopy.....	1 15
Journal of Agriculture.....	1 10
Kansas Farmer.....	1 40
Lippincott's Magazine.....	2 70
Little Folks Reader.....	90
Little Folks.....	2 70
Ladies Floral Cabinet.....	1 35
Magazine of Art.....	3 10
Mothers Magazine.....	1 40
Medical Times.....	3 60
New York Weekly Tribune.....	1 35
New York Semi Weekly Tribune.....	2 30
New York Weekly.....	3 30
New York Observer.....	2 60
New York Herald.....	1 35
New York Witness.....	1 40
New York World.....	1 25
New York Medical Journal.....	3 60
Ohio Farmer.....	1 70
Philadelphia Press.....	1 40
Puck.....	4 25
Phonographic Monthly.....	1 95
Penn Monthly.....	2 50
Philadelphia Medical Times.....	3 60
Phrenological Journal.....	2 00
Potters American Monthly.....	2 50
Prairie Farmer.....	1 85
Philadelphia Weekly Times.....	1 70
Pet Stock and Poultry Bulletin....	1 20
Poultry World.....	1 20
Poultry Yard.....	1 50
Poultry Monthly.....	1 15
Peterson's Magazine.....	1 95
Practical Farmer.....	2 20
Rural New Yorker.....	2 20
Rural Nebraska.....	1 15
Saturday Night.....	2 75
Scientific American.....	3 10
St. Nicholas.....	3 00
Scribner's Monthly (Century).....	3 85
Toledo Blade.....	1 50



The Nursery.....	1 40
Vick's Monthly.....	1 35
Wide Awake.....	2 50
Waverly Magazine.....	4 50
Youths Companion (new sub's only)....	1 50
Young Folks Rural.....	1 20

ANY NEWSPAPER OR MAGAZINE

Not on the above list can also be procured at *Club Rates* on application.

**A Special Offer.**

We will send SEED-TIME AND HARVEST, *Farm Journal*, *Green's Fruit Grower*, *American Agriculturist*, *Purdy's Fruit Recorder* and *Farm and Fireside*, all to any one or different addresses, on receipt of \$2.50. The publishers' price for these is \$4., and they are all well worth the subscription price.

**Again.**

We will send SEED TIME AND HARVEST, together with a certificate for 50 cents' worth of seeds in packets, your choice, for only 50 cents. If you will show the Magazine and explain this offer to your friends, and procure us *one* subscriber upon these liberal terms we will give you *Green's Fruit Grower* for one year as a premium. For *two* subscribers we will send you the *Farm Journal*. For *three* subscribers we will send either *Farm and Fireside* or *Purdy's Fruit Recorder*, your choice. For *five* subscribers we will send the *American Agriculturist*. All papers in all of the above offers are sent by mail *post-paid*, directly from the office of publication, just the same as though you sent full subscription price to them. If you are willing to work for us but prefer a cash commission to these liberal premiums, see our offer to Agents at bottom of page 32.

**A GRAND PRIZE CONTEST.**

***Fifty Dollars in Gold.***

In order to furnish profitable and interesting employment to our young friends during the long winter evenings, we have decided to offer Fifty Dollars in gold in four prizes, to the four persons who shall between this date and March 1st, 1882, send us the most complete and accurate answers to three questions which are simple and easy for any person to correctly answer. There will be no chance work about the matter, but the prizes may be regarded as a reward for care and thorough pains-taking work. Our object in giving these liberal rewards is to familiar-

ize our readers with the contents of this number of SEED TIME AND HARVEST, to show them how much labor we have expended in getting it up, and how cheap it is at the low price we ask for it. The \$50. will be divided into four prizes of \$20, \$15, \$10 and \$5, respectively, to be awarded and paid to the persons who shall send us the first, second, third, and fourth most correct answers to these three questions. Our only restrictions are that all persons competing must first have their name enrolled upon our subscription books for one year. It makes no difference how, when or through whom you subscribe, only so your name may be found on our books on March 1st, when the competition will close. It was our first intention to offer these prizes for greatest number of words to be formed from the different letters in "Seed Time and Harvest," and we advertised to that effect in several papers but upon mature deliberation, for good and satisfactory reasons we have decided to change it as above announced to the persons who most correctly answer the following questions.

1st. How many different individual and firm names may be found in this issue of Seed Time and Harvest? Every individual name, every firm name, business address &c., will each count one provided it has not already been counted, as no repetitions will be allowed. The exact requirement is that the address must be given in such a manner that a letter so addressed would reach the party. For instance if we speak of the Farm and Garden, Philadelphia, Pa., that counts one. We afterwards say, John E. Read is Editor, this does not count, first, because we do not say whether he lives in Philadelphia or not, and if he does a letter addressed to him there would be supposed to reach the Farm and Garden Office which we have once counted. If we should copy an article and give credit to the New York Tribune, that counts one, but if we speak of the Tribune simply, it cannot count, because we may mean the Chicago, or some other Tribune. Care and judgment will therefore be required and whoever best exercises them will be rewarded liberally.

2d. The second question is how many different varieties of Fruits, Flowers, Vegetables and Plants, are named in this issue? None to be counted unless it has a special name which is plainly given to distinguish it from some other variety. No repetitions to be counted. We may speak of Yellow Danvers Onion, or Double Dwarf Balsam, each half a dozen times, but each will be counted but once. We may speak of



half a dozen varieties of Asters, each variety named will be counted once only, and if we speak of mixed varieties of asters, that does not count, as it includes those already counted.

3d. The third question is simple and easy, viz: what word in this issue of Seed Time and Harvest contains the greatest number of different letters, and how many different letters does it contain? If there are two or more having the same number give them all, and tell what pages they may be found on.

The person who most correctly answers these questions will receive the first prize of \$20, the second best set of answers will take second prize and so on. In case several absolutely correct answers are sent, or we are unable to make a distinction between the correctness of two or more, the one which is the most plainly, nicely and systematically written will be judged entitled to precedence, but these matters will only influence in case of an absolute tie. No person in this office will be allowed to compete, and no information will be given which shall give any person any advantage in any way whatever over you. The awards will be made in a fair, square and honest manner. If you are not a subscriber and do not wish to take advantage of any offer which we make to subscribers you will simply be required to enclose Twenty-five cents with your answers, upon receipt of which your name will be entered on our books. If you have subscribed in any other way no fee whatever will be required. Keep all communications relating to this word hunt on separate sheets of paper from other matters. Take your time; look this copy through carefully and send in your answers by March 1st., 1882.

You need not send us the lists. Make a list if you wish for your own convenience, and when perfected count the exact number of names in it and tell us the number.

#### A LOCAL EDITION.

To accommodate advertisers who are doing a local business in our County, and do not care to have their advertisements sent to Maine or California, we publish a Local Edition of each issue in which, in addition to regular advertisements, a few pages of local advertisements are inserted at reduced prices. These pages will be in addition to the regular 32 and will not be numbered. They will contain addresses but nothing in them will be counted in this competition, so the correct number will be the same to all.

Address,

SEED-TIME AND HARVEST,  
LA PLUME, LACK'A CO., PA.

#### GLEANINGS.

THE Massachusetts Plowman, advocates level cultivation for most hoed crops, potatoes particularly. As the potato grows best in cool moist weather, any method of culture which encourages coolness and moisture is beneficial, while on the contrary any method of culture which encourages dryness and heat is injurious. If this reasoning be correct then it must be admitted that hilling is wrong, for it seems impossible that any one can fail to see that land which is hilled offers more surface to the sun and air, and that while the hills where the potatoes are expected to grow, will easily dry through, the hollows between, having had all the pulverized earth scraped off, bake so hard that the moisture from below is rapidly conducted up to the air; thus in two ways is the ground losing its coolness and moisture by hilling. While this is all true we believe it helps potatoes to haul the soil around the vines when they are from four to six inches high. Our practice is therefore to hill them, but to make the hills as broad and flat as the ground will admit.

A SERVICABLE hanging basket may be made by taking an old tin fruit can and slitting the sides into slits about three-fourths of an inch wide to near the bottom, and spreading them until it forms the shape of a fruit basket. They are held in position by a wire over which the end of each strip is bent. Suspend by wire and paint any color desired. Fill with moss and soil, into which plant some suitable vines and flowers, and it will be a thing of beauty and a joy—as long as it lasts.

THE United States has never yet produced a tithe of the sugar it consumes, but from present appearances this cannot long be said. The interest in Beet Sugar Factories is reviving rapidly of late and a number of large ones are being erected in New York State. The machinery required in one of these factories costs not less than \$50,000. The beets are worth \$4. per ton delivered at the factory. The factory at Wilmington, Del., soon expects to work up 150 tons per day. In Germany, where the business has long been in successful operation the average number of working days in a year is 140, and the average amount of sugar made in each factory is 2,000 tons.

The Amber Cane sugar industries are also greatly on the increase all over the land. The machinery required to manipulate this is comparatively inexpensive and should be introduced into every neighborhood.



## Sports and Variations in Potatoes.

Written for the Farm and Garden.

BY ISAAC F. TILLINGHAST.

I HAVE now finished digging my trial plot of potatoes in which I had planted samples of new seedlings which have been kindly sent me from various sections of the Union, by the side of old standard kinds for comparison, and feel well repaid for the trouble and care required by finding out one or two new ones which seem to possess unusual qualities, but a second trial will be necessary to fully establish their superiority.

I am frequently asked "if potatoes will not mix in the hill by being planted side by side." I have never observed any tendency for them to do so, and do not think such a thing possible. Vegetables get mixed only by being grown from seeds which are produced from blossoms which grow near enough each other to become cross fertilized by pollar carried by the wind, or by bees from one variety to another. Hence if we save true seeds from the potato which are found in the small balls on the vines we are liable to produce varieties differing from the parent. If many kinds are planted near each other in one plot, and seeds saved from any of them, the product will be much more diversified in consequence of the mixture or cross fertilization, but so long as they are propagated only by tubers there will be no mixture more than there would be by planting several apple-trees in conjunction and propagating from them by cutting scions and grafting. Of course if you carelessly mix different varieties in digging or handling, by dropping tubers of one kind among those of another and plant them they will be mixed in the hill, but they may be readily separated, as such a mixture will not effect the individual tuber. While this is all true, I find that any peculiarities or variations found in individual tubers may be continued and even bred up by propagation. Thus the *Late Rose*, *Late Beauty of Hebron* and *Late Ohio Potatoes*, are sports of the Early Varieties, bred from hills which for some reason were slower in developing and maturing than the others and by being saved and propagated continue to develop this peculiarity until it becomes fixed and is recognized as a different variety. I think a variation in earliness or color more easily fixed than a variation in shape. When digging the crop of *La Plume Triumph*, last season a large potato was found which, while it was exactly like the others in shape, was much lighter in color, in fact nearly white upon one side. Some, in looking at it,

thought the difference was caused by sunlight, but I determined to see if it would transmit the peculiarity and accordingly saved and planted it, cutting it to single eyes. In digging them recently I found one hill which contained only light colored potatoes like the parent, while all the others from other eyes of the same tuber, produced red potatoes true to the original type. Another instance of a peculiar bud sport was with the *Victor Potato*. This variety is probably known to most readers. It is a dark blue potato with occasionally a white spot upon it. A few years since while digging this variety, I found a tuber about one half white but all the eyes except one or two were blue. I carefully cut the specimen into single eyes, and planted the blue pieces in one place, the white pieces with blue eyes in another and the white pieces with white eyes in another. The result was, that the latter produced only white potatoes, while the other plots produced regular Blue Victors. The white potatoes so produced were planted for several years and never showed a trace of the blue afterward.

The "*Belle*" *Potato*, which I first offered to the public last season, has the peculiarity of having some specimens much darker colored than the others, so much so that some think that there are really two varieties mixed. During the two years that I have grown them I have tried to separate these darker colored specimens from the others, but without avail. Last fall when digging I selected one of the darkest colored ones—a remarkably handsome specimen—and after exhibiting it at the fair, wrapped it and labeled it carefully and preserved it until spring. I then cut it to single eyes and planted in one row in my trial plot. Upon digging them this fall I found that four-fifths of them were as light as the average from the field, while a few still preserved the dark netted appearance of the parent. This shows that although they present a different appearance they are all the same potato and cannot be separated.

Another experiment was made to try and fix a variation in shape, but without avail. Among a large quantity of *Late Rose* a specimen was found which differed greatly in shape, being large and very nearly round. It was carefully planted in the hope of producing tubers of a corresponding shape but the product differed but little from other specimens of the same variety grown from perfect shaped tubers. Still I believe if the roundest specimens were again planted that in time a change might be wrought in the shape. For a number of years past I have selected a few specimens each, of a large number of varieties, for exhibition purposes as smooth and beautiful in shape



as possible. After serving their purpose they are carefully labeled and preserved for planting, and it seems to me that already an improvement in the product, in comparison with those grown in the field of the same varieties from seed not so carefully selected, can be seen. In seed-growing this principle is an important one and no one who does not recognize and practice it should supply seeds of any kind for others to plant.

*A Six Hundred Dollar Potato.*

**WALL'S ORANGE.**

Knowing the great interest which we have for a number of years taken in testing and disseminating the very best new varieties of potatoes, many of our friend and patrons in various sections of the Union frequently forward samples of new seedlings which they think possess unusual merit, for us to try. Among the many kinds thus placed in our hands, we have recently found one which seems to us to be the greatest acquisition of the day. So highly pleased are we with it that we have at great expense secured the entire stock and control, and wish to announce that we shall propagate and offer it for sale next season. The variety alluded to originated with Mr. Lyman Wall, one of the most careful and successful farmers and potato growers of Monroe Co., N. Y. It is a seedling, recently grown by him, from a seed-ball of the Whipple, which has been known in that vicinity for some years, and highly prized as one of the finest, if not the finest table variety in existence, but its color alone, a dark blue, was so much disliked by shippers as to prevent its coming into universal use.

The new seedling which is to be called WALL'S ORANGE, resembles the parent in shape. In yielding properties it must greatly excel it, as it has during the past dry season produced eighty four-fold, with very ordinary farm or field culture. This was not, as is frequently given, the result of a single pound, petted and pampered, but the entire amount planted with no unusual care or stimulating influence, yielded at this rate. A potato of finer cooking qualities cannot well be desired and probably never will be attained. Those who think the best is good-enough for all, need look no farther. In color this new candidate differs greatly from any known variety in cultivation, so there will be little chance of spurions or counterfeit specimens in circulation as has been done with several popular and high priced varieties, it being of a decid-

ed Orange hue, from whence it derives its name.

The originator says: "For quality and productiveness I know of no variety equaling the Wall's Orange. It is about the strongest grower I ever saw, vines completely covering the ground and as nearly bug-proof as possible. Growing in my experimental field beside other varieties which were bugged several times, they took care of themselves and were the last to succumb to the drouth.

The originators entire stock of this variety last May (1881) was 25 lbs. from which we were furnished a sample; and after watching its development this season, so completely satisfied are we of its unusual value that we actually pay him \$250.00, for his stock and good will, although this is equivalent to \$10. per pound or \$600. per bushel for all that were in existence last May.

It will be offered by us in the spring of 1883 at only \$1. per pound, and we predict for it a more rapid and universal dissemination than any variety has ever received, at least since the days of the famous Early Rose.

**GLEANNINGS.**

THE cabbage crop is a complete failure in many sections and early cabbages are likely to prove unusually profitable the coming summer. Can you profit by this item?

WASH your hen roost with coal oil, and white wash the walls now and you will not be bothered with vermin in the spring. Fowls are capable of paying a greater interest on the capital invested, than any other stock on the farm, if they are properly treated. Or they may prove the most unprofitable if wrongly managed. Keep a well bred stock, and keep them well.

THE American Garden says that the so-called Italian varieties of the onion, which are gaining in popularity in this country, originated in North Africa, where the onion is held in higher esteem than any other vegetable and where it has been cultivated since the earliest periods of historical record.

A PARIS correspondent of the American Farmer, says the cultivation of Parsnips is taking extensive proportions in France, as a forage plant. Its natural home appears to be Brittany where it continues till the close of December. M. De Bian, has made the cultivation of this root a specialty, and is in a fair way to substitute it extensively for oats for horse feeding. It goes capitally with maize, and hogs accept it as a dainty dish.



## Publishers' Notes.

Advertisements for the April Number should reach us by March 1st.

Press of matter has compelled us to use fewer illustrations in this number than usual. You may confidently look for a greater number hereafter.

Our "Answers to Correspondents" will re-appear in our April Number. If you have any questions on gardening upon which you wish more light, please send them in.

The usual size of SEED-TIME AND HARVEST is 24 pages. As this number contains our annual price list, and an unusually large number of advertisements, we have added eight pages in order to give the usual amount of reading matter.

The Painted Labels for Nurserymen and Florists advertised by the Penfield Block Company, are very nice and cheap. We are using them.

Advertisers are requested to notice our Prize Word Hunt. It is the most effective plan ever invented to familiarize the great public with your name and business.

A Monthly or Quarterly Publication is much more valuable as an advertising medium than a weekly, for the reason that the latter is laid aside as soon as a new issue arrives.

We take pride in offering Onion Seeds which we can "swear by" this season. In addition to knowing that they are fresh and pure, we have subjected them to critical tests and know that they will grow readily.

Blank Order sheets and envelopes, printed for making returns to us, will be sent free to any one who will ask for them by postal card. They will be found very convenient by our Agents and others who wish to make frequent returns.

Our friend Atkinson announces an edition of 300,000 copies of the December number of the Farm Journal. If you have not seen it send him your address for a sample copy. Address, "Farm Journal, Philadelphia, Pa.

**JOB PRINTING.** Our Office is now prepared to do all kinds of job printing and stereotyping, at less than competitive prices. We invite correspondence with those desiring such work done.

After announcing a Word Hunt to consist of the best list of words to be formed from the letters in "SEED-TIME AND HARVEST," we ascertained that that style of a word hunt was copy righted by the Agents Herald of Philadelphia, Pa. We have therefore changed our offer as elsewhere announced and refer those who wish to engage in that style of puzzle to the Herald as above. See advertisement.

**A FARMER'S PAPER.**—We ask attention to the advertisement of THE PRACTICAL FARMER, of Philadelphia, Pa., in this issue of our paper, and recommend it as one of the oldest and most valuable agricultural and family papers in the country.

The cause of science has received an important addition in the elegant Observatory which Mr. H. H. Warner, proprietor of the valuable Safe Kidney and Liver Cure, has erected at Rochester.

The wonderful Pianoette advertised by the Mass. Organ Co., Boston, Mass., is one of the greatest musical inventions of the age, playing any tune by simply turning a crank. It is sold for \$5.00 with a selection of tunes.

We make a specialty of supplying Onion and Cabbage Seeds of the best and purest strains. While the prices given in our list are net, for general orders, we can give special rates where large quantities of any one variety are wanted. We will send samples for you to test before purchasing if you want to purchase a quantity of any particular varieties.

Our Seed Potatoes will be put in barrels holding  $2\frac{3}{4}$  bushels each when but one variety is put in a barrel. Parties wishing not more than three varieties packed separately in one barrel may have even bushels of two kinds, and one-half bushel of a third, packed, and the whole charged at barrel rates. In this case however you will receive but ten pecks, the space of the eleventh being occupied by packing. Smaller quantities than one-half bushel can also be packed separately in boxes or barrels but will be charged at peck rates. Pounds, by mail only, are prepaid by us. Five or more pounds of different varieties will be packed and shipped by express or Freight at purchaser's expense, at forty (40) per cent less than list prices, as it will relieve us of postage.

### ECHOES.

"A most excellent and practical work is Tillinghast's 'SEED-TIME AND HARVEST' and all vegetable growers should have it. Mr. T's card on this page is well worth reading, and we are confident that all dealings with this gentleman will prove satisfactory. He is a square man and carries a level head on his shoulders."—Farm Journal.

"SEED-TIME AND HARVEST" comes to us in its most attractive dress. It is a Quarterly Agricultural and Horticultural Magazine, published at La Plume, Pa., edited by Isaac F. Tillinghast. It contains much information on grains and fruits. Strawberries, grapes and pears embellish the autumn number.

Its articles have variety, are excellent and instructive—designed for every one who plants a seed or tills a plant.—Practical Farmer.

"SEED-TIME AND HARVEST," an illustrated Agricultural and Horticultural Magazine, published at La Plume, Lackawanna County, Pa., is on our table and from a cursory glance through its pages we discover much mental pabulum just suited to the harvesting season, and of immense value to farmers and agriculturists throughout the country. It is edited with marked ability, and at its low price should command an immense circulation. Address the publishers for sample copy.—Tribune and Farmer.

Moorestown, N. J., Aug., 18, 1881.

Isaac F. Tillinghast, Dear Sir: I am in receipt of a copy of the SEED-TIME AND HARVEST and bill for advertising in the same. So far I have received as many inquiries from my advertisement in your paper as from August number of the American Agriculturist and Farm Journal, my two best advertising mediums. Let me hear from you with bill for four insertions in your paper and oblige.

Yours Respectfully,

J. PERKINS.

Fishkill, N. Y., Aug., 18, 1881.

My Dear Sir; SEED-TIME AND HARVEST came duly to hand. I am favorably impressed with it as being very instructive and a valuable advertising medium. I have had as much inquiry from my card which appeared in your last issue, as from any other paper. Wishing you every success,

I am, yours truly,

J. G. Burrow.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**THE COUNTRY GENTLEMAN** properly stands at the head of the list of all agricultural journals for sterling merit and solid practical value. We have an uninterrupted file of some 20 volumes and would not take first cost for them today. Weekly, \$2.50 per year. L. Tucker & Son, Publishers, Albany, N. Y.

**ARTHUR'S HOME MAGAZINE.**—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**DEMAREST'S MONTHLY**, devoted to Fashion, Art, and General Literature. Sustains its high character as the leading magazine of its kind. Every number is finely illustrated, and the beautiful and artistic pictures given with each number make it well worth the subscription price. It is \$3.00 per year with a beautiful oil picture as premium to each subscriber, or \$2.50 without premium.

**LIPPINCOTT'S MAGAZINE.** J. B. LIPPINCOTT & Co., Philadelphia, is ever a welcome visitor. Filled to overflowing with choice literature, which is not of the ephemeral character of many of the so-called literary magazines, he who has a year's subscription has a real treasure to which he may refer with pride. The most noted writers of England and America contribute to its columns, while the elegant illustrations that adorn its pages serve to render the text even more instructive,—if such a thing were possible.

**THE PRAIRIE FARMER.** A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 34 Park Row, New York.

**VICK'S MONTHLY MAGAZINE**, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**GLEANINGS IN BEE CULTURE**, monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

**AMERICAN RURAL HOME.** A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

**THE PRACTICAL FARMER**, Philadelphia, Pa., takes a front rank among the great agricultural weeklies. By the change in the management, it lost nothing in size, while in quality it has improved very much. It is truly a practical paper for every farmer. \$2 a yr.

**THE FARM AND GARDEN** is the title of a new monthly published at Philadelphia, Pa. John E. Reed is the editor and its corps of contributors includes some of the ablest agricultural writers. Fifty cents a year,

**THE HOUSEHOLD**, published by George E. Crowell, Brattleboro, Vt., should be in every home. Send for a specimen and you will certainly subscribe for your wife.

**FARM AND FIRESIDE**, Springfield, O., continues to be a welcome visitor to thousands of farms and firesides and loses nothing by age. 50 cents a year with valuable premiums to clubs.

**THE MARYLAND FARMER**, published by Ezra Whitman, Baltimore, Md., at \$1.00 per year is worth five times its cost to any farmer. Try it.

**THE JOURNAL OF THE AMERICAN AGRICULTURAL ASSOCIATION**, 127 Water Street, N. Y., of which J. H. Reall, is editor is a new publication that bids fair to take a high rank. Each number contains about 200 pages filled with choice articles. The last number contains, A Description of a Model Dairy and Stock Farm. The Fuel Problem of the Treeless Plains. Farmers and the Tariff. Co-Operative Experiments with Fertilizers. Agricultural Education for the Young. The Railroad and the Farmer, etc. Price, \$2.00 a year,

**THE AMERICAN FARMER**, published by Samuel Sands & Son, Baltimore, Md., is one of the oldest and best Rural Magazines in America. It will be published hereafter semi-monthly, and at \$1.50 per year is well worth its cost.

**CITY AND COUNTRY**, is the new title of the **WESTERN HOME JOURNAL**, whose advertisement appears in another place.

**THE NORTH AMERICAN REVIEW**, edited by Allen Thorndike Rice, at No. 30 Lafayette Place, N. Y., is an epitome of American thought well worthy of consideration of every citizen of the United States. The January number contains five articles upon the Moral Responsibility of the Insane, by Drs. Elwell, Beard, Segain, Folsom and Jewell. The New Political Machine, by William Martin Dickson; Shall Woman Practice Medicine, by Dr. Mary Putnam Jacobi, and other articles by prominent writers whose writings are words of wisdom. Indeed the writers without exception are men eminently competent for the tasks assigned them, while of the subjects discussed, there is not one that does not possess a living interest. Every lover of his country should read it.

**THE POULTRY MONTHLY** published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited. \$1.00 a year. Send for it.

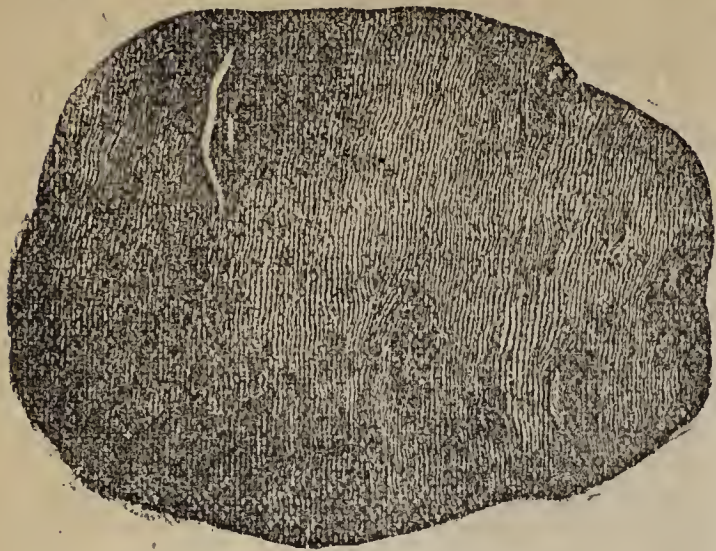
**THE LADIES' FLORAL CABINET** is an elegant monthly devoted to flowers and home adornment. Every lady should have it on her work-table. Published by Adams & Bishop, New York, N. Y., who give splendid premiums to every subscriber.

**THE FARMERS' REVIEW**, Chicago, Ill., walks right in every week, and with its pages of statistics from all over the country shows what the farmers are doing. It advocates "profitable agriculture, anti-monopoly and equal taxation." \$1.00 a year, and well worth it.

**THE AMERICAN CULTIVATOR**, Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**AMERICAN AGRICULTURIST.** We consult the best good of our readers in recommending them to now secure the valuable and important information and most interesting reading matter including a Thousand or more of pleasing and instructive Engravings and sketches, that can be obtained at trifling expense in the American Agriculturist. This is not merely a farm and garden Journal, but is very useful to every House-keeper and to every household in Village and Country. It has an entertaining and useful department for the little ones. It is a journal that pays to take and read. Try it.





THE BELLE POTATO.

**THE BELLE POTATO.**

This variety was first offered to the public in the spring of 1881, under the broad claim of coming nearer perfection, all points considered, than any other variety yet introduced. In again calling attention to it, I am happy to state that another season's trial in widely different localities, and under varying conditions, only more fully confirms the claim, it having in every instance, given the most unbounded satisfaction. During the past ten years I have planted and tested several hundred new varieties, including all the promising sorts which have been offered by the leading seedsmen, and many which have been forwarded to me for trial by my friends and patrons in various sections of the Union, and have as yet tested nothing which will surpass it in yielding or cooking qualities. I have been slow to bring new sorts to the notice of the public, recognizing the fact that there are already too many varieties of only ordinary merit, and wishing to be certain that I have one possessing very superior qualities before attempting to disseminate it. It is, in my judgement, of about the best possible color, viz., a light red, with the skin slightly netted. Some specimens are much darker red than others, so much so that you might at first think another variety mixed with them, but as the very darkest ones when planted separately produce some light colored specimens, I conclude that this peculiarity is the result of a "bud-sport" and cannot well be avoided. The medium sized tubers are usually very smooth and handsome in shape and appearance, but some of the very large specimens are somewhat irregular in shape, yet never prongy. Last season I exhibited a bushel at the Pennsylvania State Fair which consisted of but 48 tubers, all fair and smooth, and this season, although severe-

ly checked by the drought, I have had single specimens weighing very nearly two pounds each, at which rate only 30 would be required to make a legal bushel, and yet the table quality is remarkably fine for so large a potato. Many good judges to whom it has been submitted for trial have pronounced its cooking qualities superb, it being really superior to any other which will nearly equal it in size or yield. I append a few extracts from letters recently received, showing the estimation in which it is held by the writers:

Office of Orange Judd Co.,  
Publishers of AM. AGRICULTURIST,  
Isaac F. Tillinghast,

Dear Sir: Your parcel of the Belle potatoes was received either just before we left the old office or just as we were moving into the new place. In either case they managed to get out of sight and I only recovered the package a few days ago. A trial on the table was made today and the whole family endorse my verdict of "splendid in every respect." I do not now recollect a better potato. It was tried under slightly unfavorable conditions as having been for sometime in a warm office, the sprouts had grown an inch or so, and this did not help them any at any rate. Respectfully,

George Thurber, Editor.

Cuyahoga Falls, Ohio, Oct. 13, 1881.

Mr I. F. Tillinghast,

My Dear Sir: I wish to tell you of my success with the Belle potato. I have a weakness for good potatoes, and usually test all the varieties that come before the public. Late in May, I planted a peck of the Belle on clover sod, without any manure. After they came up I scattered among them bones that had been softened in ashes. This was probably of no benefit to the crop, as we had scarcely any rain from that time until they were ripe. They received only ordinary cultivation and yielded over seven bushels of the finest looking potatoes I have seen this year. A bushel of the finest contained 77.

The quality is all that can be desired, or as our girl said. "They are just as nice as they can be."

Peachblows planted along side the Belle yielded less than one-seventh as much. The Snowflake has been our main dependence for some years, but, until I find something better I shall rely on the Beauty of Hebron for early, and the Belle for the main crop.

Yours Truly, Matthew Crawford,



Detroit, Mich, Oct. 24, 1881.

Isaac F. Tillinghast,

Dear Sir: We planted the the sample [Belle] you so kindly sent us with our other sorts and it gave a large yield of very large potatoes, particularly for this season. The medium sized ones were very fine form, and handsome, but the larger ones were disposed to have deep folds about the seed end which gave them a coarse appearance. They were however solid, and when cooked of fine quality; remarkably fine for so large a potato.

Yours Truly,

Will W. Tracy.  
For D. M. Ferry & Co.

Darlington, Wis. Oct. 10, 1881.

Isaac F. Tillinghast,

Dear Sir: The "Belle" Potatoes are very nice. From one pound I raised one and one half bushels of mostly large potatoes. The Essex Hybrid Squash is quite prolific, and both are of excellent quality.

J. B. Merriam.

Clinton Hollow, N. Y., Sept. 18, 1881.

Mr. I. F. Tillinghast,

I purchased one half pound (one tuber) of the Belle Potato, planted it May 31, in ten hills. I dug them Aug. 31, and had 33 pounds of very large ones. There were fewer small ones among them than among any variety I have ever tried. Soil, muck 6 or 8 inches deep underlaid with stone.

Very Sincerely Yours,

Augustus T. Cookingham.

Ilion, N. Y., Sept. 15, 1881.

Mr. Tillinghast.

Dear Sir: The one pound of "Belle" Potatoes I bought of you last spring I planted the 16th of May, each eye separately, from 8 to 12 inches apart. From the pound I harvested, the 5th of September, 84 pounds. Some of the tubers weighed more than one lb. each. I planted on good garden soil without manure. Have tried the quality and find them first class.

P. S. It has been very dry this season.

Yours Truly, S. P. Sargent.

Office of Secretary Hebron Agricultural Society,  
West Hebron, N. Y., Oct. 7, 1881.

Mr. I. F. Tillinghast,

Dear Sir: Last spring I received from you one pound of the "Belle"

Potato. Unfortunately I planted the seed on a poor soil, and the drouth and grubs seriously nterfered with the yield, yet I harvested nearly a hushel of very nice potatoes. I like them exceedingly well, will give them better ground next year and expect better results. I exhibited the Belle with fourteen other varieties, at our fair, and it received much praise for its fine appearance. Accept thanks for copies of SEED-TIME AND HARVEST. No. eight was received to day. Yours With Respect,

J. E. Mc Clellan.

Malvern, Iowa, Dec. 20, 1881.

Mr. I. F. Tillinghast,

Dear Sir: The two barrels of "Belle" potatoes ordered of you last spring arrived late in May in good order. Although they had been on the road thirty days in tight barrels in warm weather, their table qualities were superior. I planted them about the 8th of June; they came up quicker than most other varieties, and grew in a manner that astonished me. When they were about to bloom, the drouth had become so severe that the buds dropped off, and the hot winds that blew for six weeks prostrated them to the ground. A few of the vines died during the drouth, but most of them lived and were somewhat benefited by the fall rains. When I had dug all my potatoes, consisting of more than a dozen of the finest new varieties, I found the "Belle" unequalled in SIZE and PRODUCT-IVENESS, and in quality and appearance UNSUR-PASSED! I believe it is the coming potato, and will be worth millions to the people!

I can make more money by planting "Belle" potatoes at \$4.00 per bushel, and sell them in the market at common price, than to plant Peach Blows or Early Rose, and have the seed given to me. Yours, respectfully,

I. K. Hatfield.

P. S.—The yield of common potatoes in this country is the nearest failure this year we have ever known.

I. K. H.

THE poorest possible plan for harvesting potatoes is to dig them early and leave them in pitts until late fall. We are more and more inclined to the opinion that the better way is to leave them undug until late in September. Then dig when dry and place them immediately in a cool dry cellar. We have handled hundreds of bushels this season and have not yet seen three rotten tubers.

Potatoes which are to be eaten should be kept in the dark. Light soon spoils them.



## Seed-Time and Harvest BUSINESS DIRECTORY.

Cards for all kinds of business pertaining to Agriculture or Horticulture will be inserted in this Directory and a copy of SEED-TIME AND HARVEST included for \$1.00 per year, always in advance. Your order is solicited.

### AGRICULTURAL COLLEGES.

Cornell University, Ithaca, N. Y.  
State Agricultural College, Lansing, Mich.

### AGRICULTURAL IMPLEMENTS.

Sandwich Manufacturing Co., Sandwich, Ill.  
E. Remington & Sons, Illion, N. Y.

#### Bicycles.

Pope Manufacturing Co., Boston, Mass.  
John Wilkinson, 77 State St. Chicago, Ill.

#### Bee Keeper's Supplies.

Geo. C. Green, Factoryville, Wyoming Co., Pa.  
J. C. & H. P. Sayles, Hartford, Wis.  
L. C. Root & Bro., Mohawk, N. Y.

#### BULBS.

August Rolker & Son, 44 Dey St., New York.  
C. Raoux, 76 Park Place, New York  
J. C. Vaughan, Chicago Ill  
V. H. Hallock, Son and Thorpe, Queens, N. Y.

### BREEDING CATTLE.

#### AYRSHIRES.

William Crozier, Northport, L. I., N. Y.

#### JERSEYS.

Beech Grove Farm, Ingallston, Marion Co., Ind.

#### HOLSTEINS.

J. N. Robbins, Northport, L. I., N. Y.  
Edward L. Coy, West Hebron, N. Y.

#### Produce Commission Merchant.

Chas. W. Idell, 333 Washington St., N. Y.

#### Collectors of Native Plants and Seeds.

Woolson & Co., Passaic, N. J.  
Arnold Puetz, Jacksonville, Florida.

### CIDER MILLS AND PRESSES.

#### JERSEY APPLE GRINDER.

Robert Butterworth, Trenton, N. J.

#### CHAMPION CIDER PRESS.

Robert Butterworth, Trenton, N. J.

#### Electrotypes.

Farmer, Little & Co, New York.

### ENGRAVERS.

Crosscup and West, 702 Chestnut St, Phila. Pa.  
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### EVERGREENS.

Robert Douglas & Son, Waukegan, Ill.  
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Chas. T. Starr, Avondale, Chester Co, Pa.  
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Edward Schmid, Washington, D. C.  
Fred J. Meyers, Covington, Ky.  
N. Sneffens, 335 East 21st St., New York.  
J. C. Vaughan, 45 La Salle St. Chicago Ill.

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C. A. Becker, Wilkesbarre, Pa.  
Elverson Sherwood & Co. New Brighton, Pa.  
A. H. Hews, North Cambridge, Mass.  
Mappes Bros. 753 Vine St, Cincinnati, Ohio.  
Peoria Pottery Co, Peoria, Ill.

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D. M. Dewey, Rochester, N. Y.  
L. Prang & Co, Boston, Mass.

#### Fruit Boxes, Baskets, Crates &c.

Disbrow M'fg Co., Rochester, N. Y.

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R. J. Black, Bremen, Fairfield Co., Ohio.

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#### LEGHORNS.

N. D. Forbes, New Haven, Conn.  
A. G. Tillinghast, La Plume, Pa.

#### PLYMOUTH ROCKS.

Jas. E. White, Englewood, Cook Co., Ill.

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Edgewood Farm, Drawer 34, Albany, N. Y.

#### LANGSHANS.

Mrs. R. W. Sargent, Box 121, Kittery, Maine.

#### COCHINS.

H. B. Minor, Saugerties, N. Y.

#### BRAHMAS.

H. B. Thomas, Troy, N. Y.

#### GAMES.

John H. Derby, Sandy Hill, N. Y.

#### DORKINGS.

C. O. Poole, Metuchen, N. J.

#### BRONZE TURKEYS.

L. Whittaker, North Adams, Mich.

#### SHEPHERD DOGS.

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### Fountains.

William Altick, Dayton, Ohio.

### Foreign Dealers in Seeds and Bulbs.

C. Platz & Son, Erfurt, Prussia.  
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 J. C. Burrow, Fishkill, N. Y.  
 T. S. Hubbard, Fredonia, N. Y.

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B. K. Bliss & Son, 34 Park Row, New York.  
 Hovey & Co, Chicago, Ill.

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Geo. Raphael, New Rochelle, N. Y.  
 Indelible Ink Co, Northampton, Mass.

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Hitchings & Co, New York.  
 John Dick Jr, 53d St & Darby Road, Phila. Pa.  
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C. D. Middlebrook, Binghamton, N. Y.

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CLYDESDALES AND HAMBLETONIANS.  
 Powell Bros., Springboro, Crawford Co., Pa.

## HAMBLETONIANS.

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James King, 186, State St, Chicago Ill.  
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 Jas. Leffel, Springfield, Ohio.

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### SOUTHDOWNS.

P. C. McClure, Fountain Stock Farm, Galion, O.

### LINCOLNS.

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C. W. Canfield, Athens, Bradford Co., Pa.

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 Titus Berst, Erie, Pa.  
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Henry Nungesser, 83 Ave. D, New York.

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# SEED-TIME AND HARVEST.

## RELIABLE SEEDS AT Honest Prices.

I beg to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders. All seeds sold by me are **WARRANTED**

**POSITIVELY RELIABLE**, to the extent that I refill all orders which for any reason are not satisfactory. I sell

**OUNCES AT POUND RATES.** Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE**, and deliver free to any Post Office, without extra charge.

**NO MATTER** how far away you are, this places my Establishment at your door.

**THE EXPENSE OF REGISTERING YOUR ORDER** may be deducted from the bill thus throwing the expense all on me.

**SEED-TIME AND HARVEST**, my Illustrated Quarterly Magazine is sent **FREE TO ALL MY PATRONS.** Catalogue and full particulars sent free to any address.

**ISAAC F. TILLINGHAST,**  
La Plume Seed & Co., Pa.

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

### Beans. 2-oz Pkt. Pint. Peck.

Soja Hispanica.....	20		
Crystal White Wax.....	15	40	
Early Feejee.....	10	30	1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	15	40	3.00
Ferry's Golden Wax.....	15	40	3.00
Large White Marrowfat.....	10	25	1.50

### Pole Beans.

Concord.....	10	30	2.00
Large Lima.....	10	30	—
German Wax.....	10	30	2.00
Dreer's Improved Lima.....	15	40	—

### Corn.

Red River, New.....	15	40	
Early Marblehead.....	15	40	
Amber Cream, New.....	15	35	
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	25	1.00
New Egyptian.....	10	30	1.25
Red and White Rice Pop-Corn	10	35	—
Wauhakum Field.....	10	30	1.25
North Star Golden Dent.....	10	30	1.25

### Peas.

American Wonder.....	20	50	
Winona Dwarf White Marrow	15	40	
Cow Peas.....	10	30	1.25
Extra Early Dan. O'Rourke..	10	30	2.00
Philadelphia Extra Early ...	10	30	2.00
McLean's Little Gem.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	25	1.50

### Asparagus.

Conover's Colossal.....	Pkt. 05	Oz. 10	Lb. 0.75
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### Brussels Sprouts.

New Dwarf.....	05	25	
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### Beets.

New Eclipse.....	05	15	1.50
Early Egyptian.....	05	15	1.50
Bassano.....	05	10	.75
Dewing's Red Turnip.....	05	10	.75
Long Smooth Blood.....	05	10	.75
Above Varieties Mixed.....	05	10	.75

<b>Mangel Wurzel Beets.</b>	Pkt.	Oz.	Lb.
Yellow Globe.....	05	10	.65
Norbitan's Giant.....	05	10	.75
Webb's New Kinver.....	05	10	.75
Imperial Sugar.....	05	10	.65

### Broccoli.

Early Purple Cape.....	10	60	
White Cape.....	10	60	
Walcheran.....	10	60	

### Cauliflower.

Lackawanna (New).....	20	3.00	
Early Snowball, New,.....	20	3.00	
Earliest Dwarf Erfurt.....	20	2.00	
Early London.....	15	.75	
Nonpareil.....	20	1.25	
Lenormand's Short Stem....	20	1.25	
Above Varieties Mixed.....	20		

### Cabbage.

Very Early Favorite.....	15	60	
Early York.....	05	15	2.00
Berkshire Beauty, New,.....	15		
Early Bleichfield.....	10	40	
True Jersey Wakefield.....	10	35	5.00
Henderson's Early Summer..	10	40	6.00
Newark Early Flat Dutch....	05	35	5.00
Early Winningstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	25	4.00
Premium Flat Dutch.....	05	25	4.00
Late American Drumhead....	05	25	4.00
Marblehead Mammoth.....	05	25	4.00
Perfection Drumhead Savoy..	05	25	4.00
Red Drumhead,.....	05	25	4.00
Red Dutch.....	05	25	4.00
Early Dark Red Erfurt.....	15	60	
Above Varieties Mixed.....	10	30	

### Celery.

La Plume Chestnut, New,....	20	1.00	
Crawford's Half Dwarf.....	05	35	5.00
Carter's Dwarf Crimson.....	15	40	
New Golden Dwarf.....	15	50	
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	50	
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	
Above Varieties Mixed.....	10	30	

### Carrot.

Early Short Horn.....	05	10	1.25
Improved Long Orange.....	05	10	1.25
Danvers Orange.....	05	10	1.50
White Belgian.....	05	10	1.00
Above Varieties Mixed.....	05	10	

### Cucumber.

Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	

### Chicory.

Large Rooted.....	05	10	1.25
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### Cress.

Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	

### Egg Plant.

Long Purple.....	10	50	
Improved N. Y. Purple.....	10	60	
Very Early Dwarf Purple....	10	50	
Striped Gaudalupe.....	10	60	
Long White China.....	10	60	
Above Varieties Mixed.....	10	60	

### Kohl Rabi.

Large Purple,.....	10	35	
Early White Vienna.....	10	35	
Above Varieties Mixed.....	10	35	

### Lettuce.

Black Seeded Simpson, New,..	10	60	
Hanson.....	05	30	
Victoria.....	05	30	
Early Curled Simpson.....	05	30	



<b>Lettuce, Continued.</b>			
True Boston Market	Pkt. 05	Oz. 40	Lb.
White Seeded Tennisball	05	30	
Black Seeded Tennisball	05	30	
Drumhead, or Malta	05	30	
Above Varieties Mixed	05	30	
<b>Leek.</b>			
Large Scotch Flag	05	30	
<b>Musk Melon.</b>			
Nutmeg	05	10	1.25
Skillman's Netted	05	10	1.25
Improved Yellow Cantaloupe	05	10	1.25
Green Citron	05	10	1.25
Pine Apple	05	10	1.25
Jenny Lind	05	10	1.25
Surprise, New,	05	20	
Bay View, New,	05	30	
Above Varieties Mixed	05	10	
<b>Water Melon.</b>			
Cuban Queen, New	10	25	4.00
Phinney's Early	05	10	1.25
Striped Gipsy	05	10	1.25
Ice Cream	05	10	1.25
Mountain Sweet	05	10	1.25
Ferry's Peerless	05	10	1.25
Citron. (for preserving,)	05	10	1.25
Above Varieties Mixed	05	10	
<b>Mustard.</b>			
White French	05	05	60
Black American	05	05	60
<b>Onion.</b>			
Extra Early Flat Red	10	40	6.00
Early Red Globe	10	40	6.00
Yellow Danvers	10	30	4.50
Red Wethersfield	10	35	5.00
Large Yellow Dutch	10	30	4.50
White Globe	10	50	8.00
White Portugal	10	25	4.00
New Queen	10	25	5.00
White Italian Tripoli	10	25	4.00
Giant Rocca	10	25	4.00
<b>Parsnip.</b>			
Hollow Crowned	05	10	.85
Smooth Dutch	05	10	.85
<b>Parsley.</b>			
Extra Fine Curled	05	15	2.00
<b>Pepper.</b>			
Sweet Bell or Bull Nose	10	25	4.00
Large Sweet Mountain	10	25	4.00
Red Cayenne	10	25	4.00
Spanish Monstrous (New)	10	40	
<b>Pumpkin.</b>			
Golden Marrow, New,	05	15	2.00
Large Cheese	05	10	.85
Sugar. (Fine for pies.)	05	20	
Connecticut Field	05	05	.45
<b>Radishes.</b>			
Early Scarlet Turnip	05	10	1.25
Early White Turnip	05	10	1.25
Long Scarlet Short-Top	05	10	1.25
Early Scarlet Olive	05	10	1.25
French Breakfast	05	10	1.25
China Rose Winter	05	10	1.25
Black Spanish Winter	05	10	1.25
California Mammoth White	05	15	2.00
Grey Summer Turnip	05	10	1.50
Golden Yellow Summer (New)	05	10	1.50
Above Varieties Mixed	05	10	1.25
<b>Salsify, or Vegetable Oyster.</b>			
White French	05	20	3.00
<b>Spinach.</b>			
Round Leaved	05	05	0.50
Monstrous Viroflay	05	10	1.00
<b>Squash.</b>			
Low's Essex Hybrid, New,	10	15	2.50
Early White Bush	05	10	1.00
Summer Crookneck	05	10	1.00
Hubbard	05	10	1.25
Marblehead	05	10	1.25
Butman, (New,)	05	10	1.25
Mammoth	10	30	

<b>Tobacco.</b>			
Connecticut Seed Leaf	Pkt. 10	Oz. 30	Lb.
Kentucky Broad Leaf	10	30	
<b>Turnip.</b>			
New White Egg	05	10	1.25
Early White Dutch	05	10	.80
Purple Top Strap Leaf	05	10	.80
Long White Cow Horn	05	10	.80
Yellow Aberdeen	05	10	.80
Yellow Globe	05	10	.80
Golden Ball	05	10	.80
Above Varieties Mixed	05	10	.80
<b>Rutabaga, or Swede Turnip.</b>			
White French, or Sw't German	05	10	.80
Skirving's Purple Top Yellow	05	10	.80
Brill's American Yellow	05	15	1.50
Shamrock Swede, Yellow	05	10	.80
Above Varieties Mixed	05	10	.80
<b>Tomato.</b>			
Essex Hybrid, New	Pkt. 10	Hf.-Oz. .30	Oz. .60
Ford's Alpha, New,	10	.30	.60
Acme,	05	.20	.40
Red Chief, New,	05	.25	.50
Red Currant	05	.25	.50
Paragon	05	.25	.50
Canada Victor	05	.15	.30
Conqueror	05	.15	.30
Hathaway's Excelsior	05	.15	.30
Trophy	05	.15	.30
Arlington	05	.15	.30
Green Gage	05	.15	.30
Golden Rural, New,	05	.20	.40
Saint Paul, (New)	10	.30	.60
Above Varieties Mixed	05	.20	.40
<b>Herb Seeds.</b>			
Coriander	Pkt. 05	Oz. .20	Pkt. 05
Horehound	10	50	05
Summer Savory	10	30	05
Sweet Marjoram	10	40	10
Caraway	05	15	10
Sweet Fennel	05	20	10
Dill	05		05
Sage	05		05
Saffron	05		05
Lavender	10		30
Sweet Basil	10		40
Thyme	10		50

### Potatoes.

Although the potato crop, generally, was nearly a failure in this section this season, most of our improved varieties yielded good returns, and we offer a stock fully up to the average in quality. At the following prices pounds will be sent post paid by mail, and larger quantities by express or freight with no extra charge for packing. Orders will be booked as received and filled soon as the weather will permit.

	Lb.	Peck.	Bush.	Bbl.
Wall's Orange	\$4.00			
Cook's Superb	1 00	2.50		
Luxury	.75	3.00		
Defiance	.50	2.00	6.00	
Manson's Seedling	.50	1.25	4.00	10.00
Magnum Bonum	.50	1.25	4.00	10.00
The "Belle,"	.50	1.25	4.00	10.00
White Elephant	.50	1.25	4.00	10.00
La Plume Triumph	.50	.75	2.00	5.00
Beauty of Hebron	.50	.75	2.00	5.00
Late B of Hebron	.50	.75	2.00	5.00
Early Ohio	.50	.75	2.00	5.00
Late Ohio	.50	.75	2.00	5.00
Burbank	.50	.75	2.00	5.00

## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation. They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

EXPLANATION.—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—



## SEED-TIME AND HARVEST.

a—annual. b,—biennial. c.—climber. e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a.....	.05
Acroclinium album, white, a. e.....	.05
..... roseum, rose, a. e.....	.05
Adonis vernalis, scarlet, a.....	.05
..... autumnalis, crimson, a.....	.05
Ageratum Mexicanum, blue, a.....	.05
..... Wenlandii, compactum, white, a.....	.10
Agrostemma viscaria, cœli rosa. p.....	.05
..... alba, white, p.....	.05
..... atro-sanguinea, crimson, p.....	.05
Alyssum maritimum, sweet, white, a.....	.05
Amaranthus caudatus, crimson, a.....	.05
..... melancholicus ruber, d'k crimson.	.05
..... salicifolius, scarlet and purple, a.	.10
Annobium alatum, (Immortelle,) white, e.....	.05
Anemone coronarium, p.....	.10
Antirrhinum majus, a. 9 colors mixed.....	.05
..... dwarf, a. 10 colors mixed,.....	.05
Aquilegia hortensis, double, m. p.....	.05
..... chrysantha, new golden-spurred.....	.10
..... finest varieties mixed.....	.5
Aster, pæony-flowered, extra fine, m. a.....	.10
..... half-dwarf pyramidal bouquet, m. a.....	.10
..... crown, or cocardeau, m. a.....	.10
..... quilled German m a.....	.10
..... fine mixture of the above.....	.05
Balsam camellia-flowered double m a.....	.10
..... dwarf double m a.....	.10
..... double fine mixed varieties m a.....	.05
Cacalia, (Tassel Flower,) scarlet and yellow a.....	.05
Calandrina grandiflora elegans, rosy pink a.....	.05
Calceolaria scabiosæ-folia, new, p.....	.10
Callirhoe pedata nana, purple crimson, a.....	.05
Campanula trachelium, double, b.....	.10
..... nobilis alba b.....	.10
..... medium, (Canterbury bells,) double	.05
Candytuft, rocket selected, m, a.....	.05
Candytuft fragrant m. a.....	.05
..... hybrid dwarf, m, a.....	.05
Canna Indica, 5 colors mixed, a.....	.05
Carnation, double picotee, m. a.....	.15
..... early dwarf m. a.....	.10
Celosia cristata, —cockscomb— 6 colors mixed	.10
..... variegata new, m a.....	.10
..... crimson, gold and fire-feathered, m a.	.10
Centaurea Babylonica, new p.....	.10
..... cyanus minor m p,.....	.05
Centranthus macrosiphon m a.....	.05
Chrysanthemum carinatum, m a.....	.05
..... double white new.....	.05
..... Indicum grandiflorum, m p ..	.10
Clarkia pulchella m a.....	.10
..... elegans, new double, pure white.....	.5
Cobœa scandens, purple c p.....	.10
Coix lachrymæ, Job's Tears,.....	.05
Colutea floribunda.....	.05
Collinsia multicolor marmorata, a m.....	.05
Convolvulus minor, m a.....	.05
..... major, Morning-glory, m a.....	.05
Coreopsis tinctoria m a.....	.05
Cucurbita, Ornamental gourds, m a.....	.05
Datura fatuosa, double purple a.....	.05
..... white a.....	.05
..... Wrightii, new double, a.....	.05
Delphinium (Larkspur,) dwarf double, m a.....	.05
..... tall German rocket.....	.05
..... dwarf branching double,.....	.05
Dianthus dentosus hybridus, m a b.....	.10
..... sinensis double m a b.....	.10
..... barbatus, [Sweet William,] p m ..	.05
Digitalis gloxinoides, spotted, white & crimson	.05
Eschscholtzia Californica, yellow a.....	.05
..... tenuifolia, new a.....	.05
Eutoca Wrangeliana, low blue annual.....	.05
Geranium, zonale and inquinans mixed, a p ..	.15
Gilia tricolor, blue, white and lilac m a.....	.05
Globe Amaranth, 6 colors m e a.....	.05
Godetia, Lady Albemarle, new large crimson a	.10
..... roseo albo. Tom Thumb a.....	.05

Helichrysum lucidum m a e.....	.05
..... dwarf m a e.....	.05
..... monstrososum double m a e.....	.05
Helianthus globosus fistulosus a.....	.05
..... Californicus, double a,.....	.05
Hollyhock Chinese double a.....	.10
Honeysuckle, Hedysarum coronarium m a.....	.05
Ipomœa Quamoclit, Cypress vine m a.....	.05
Jacobœa, Senecio elegans double m a.....	.05
..... dwarf double m a.....	.05
Lantana hybrid m.....	.05
Linaria bipartita flora albo a.....	.05
..... purpurea, snapdragon a.....	.05
Linum grandiflorum roseum a.....	.05
Lobelia Erinus grandiflora superba.....	.05
Lupins, Dunnettii superbus, new a.....	.05
..... tricolor elegans new a.....	.05
..... polyphyllus mixed p.....	.05
Lychnis chalconica, white and scarlet m p ..	.05
..... Haageana hybrida new p.....	.10
Marvel of Peru hybrid, Four o'clock, m a.....	.05
..... mirabilis jalapa a.....	.05
Marigold African double m a.....	.05
..... French..... m a.....	.05
Mignonette, Reseda odorata, sweet-scented a.....	.05
..... large-flowering a.....	.05
Mesembrianthemum, Ice plant, a.....	.05
Mimulus cupreus hybridus extra a.....	.10
Nemophila insignis, blue with white center ..	.05
..... discordalis, black—white margin.....	.05
..... elegans—very brilliant—a.....	.05
..... maculata white and purple a.....	.05
Nigella Damascena, Love in a mist, a.....	.05
..... Hispanica a.....	.05
Oenothera Drummondii, Evening Primrose a.....	.05
..... macrocarpa.....	.05
..... acaulis.....	.10
Pansy large flowering, very fine mixed, a p ..	.10
..... King of the Blacks.....	.15
..... Pure White.....	.15
Peas sweet..... 15 cts. per oz.....	.05
Petunia hybrid, very fine mixed colors a p ..	.05
..... double striped.....	.25
Phlox Drummondii splendid mixed colors a ..	.05
..... perennial.....	.05
Portulaca grandiflora m a.....	.05
..... double extra m a.....	.05
Primula Japonica, new Japanese primrose a b.....	.05
..... elatior, cowslip m a b.....	.05
Rodanthe Manglesii, everlasting m a.....	.05
..... maculata..... m a.....	.05
Ricinus sanguineus, castor oil bean a.....	.05
..... major, largest variety a.....	.05
Salpiglossis hybrid blue and scarlet m a.....	.05
Salvia coccinea a p.....	.05
Scabious major, mourning bride m a.....	.05
..... minor, dwarf double m a.....	.05
Silene Armeria, Lobel's catchfly m a.....	.05
..... pendula double rose a.....	.10
Schizanthus papilionaceus m a.....	.05
Stocks Brompton m b.....	.10
..... German ten weeks m a.....	.10
..... Parisian..... m a.....	.10
Tagetes lucida m a.....	.05
..... signata pumilla a.....	.05
Tropæolum Lobbianum, spit-fire a.....	.05
Tropæolum majus, Tall Nasturtium. a.....	.05
Verbena hybrid, extra choice mixed a.....	.10
Virginian stock m a.....	.05
Wallflower double m p.....	.15
..... pure bright yellow, new.....	.10
Xeranthemum annum Imperial double e.....	.10
..... mixed varieties a e.....	.05
Zinnia elegans, double m a.....	.05
..... dwarf m a.....	.05

## ORNAMENTAL GRASSES.

Agrostis Pulchella.....	.05
Briza Maxima.....	.05
Gynerium, or Pampas Grass.....	.05
Stipa Pennata, or Feather Grass.....	.05
Striped Leaved Japanese Maize.....	.05



**OBSERVATIONS.**

ALL poultry houses should be so constructed that dry earth or other absorbents can be kept sprinkled under the roost. The contents should frequently be swept up and preserved in barrels where it can be kept dry until wanted in spring. This will form one of the chief sources of profit in poultry keeping.

IF you want fowls for eggs, there are none in existence that can compete with the Leghorns. If you are breeding and rearing them for meat, take the Asiatics every time. We have tried Brahmas and Cochins and have discarded both for the lordly Langshan. We believe the latter is the finest and handsomest large fowl in the world.

**SOME PEOPLE**

are fair minded, to such we refer the scale question. For many years a great monopoly owned the patent and amassed millions of dollars. When the patent expired the invention became public property, and one has a legal and moral right to make Fairbank's Scales. There are some dozen companies making "genuine" Fairbank's Scales, genuine because they are the exact scale invented by Fairbank. The value of a scale should be determined not by its name, nor the price, but by its accuracy and durability resulting from the use of good material by the skillful mechanic. While this famous patent existed the price of a Five Ton Wagon Scale was \$225., now as good a scale is made and sold, at a living profit for \$60. by Jones of Binghamton, Binghamton, N. Y.; and Jones, he pays the freight. This is fair competition and should be met in an honorable manner, but instead, resort is had to every species of MISREPRESENTATION, OUTRIGHT FALSEHOOD, CONTEMPTIBLE MEANNESS, BRIBERY AND CONSPIRACY, and we hold the head of the Fairbank Co., Ex-Gov. of Vermont, the high-toned Christain Gentleman, noted for his liberality to Church and Sunday School, responsible for the rascality of his employees, for he pockets the ill-gotten gains. We appeal to any one who has ever had any conversation with a Fairbanks Scale Agent, relating to the Jones Scale, to substantiate our statement. They have succeeded in deceiving many into paying double price, and no doubt have lied us out of many thousands of dollars, but we have prospered, simply because we have kept faith with our patrons, sold them a good scale at a fair price, and done just as we agreed every time. The smooth-tongued liar will tell you that the Jones' Scale "aint good for nothing," but that won't induce any fair-minded person to reject the testimony of many thousands who have used the Jones Scale. Some for nearly twenty years. Jones asks no money till the buyer has an opportunity to try his scale, and see that it is represented. Every Jones Scale is warranted for five years, and no man can say that Jones ever failed to make his warrant good. Remember Jones pays the freight and takes all risk of loss or breakage on the way. An attempt is often made to deceive by the claim that a scale is the U. S. standard meaning to convey the impression that the government has something to do with it, which is not the fact. Any scale, by whoever made, that is correct according to the weights adapted by the Government is just as much U. S. Standard, as any other. Every one who has any interest in Scales, should address JONES OF BINGHAMTON, Binghamton, N. Y., for free Book on Scales, which gives prices of all sizes of Scales and other valuable information



THE LEADING SCIENTISTS OF TO-DAY agree that most diseases are caused by disordered Kidneys or Liver. If, therefore, the Kidneys and Liver are kept in perfect order, perfect health will be the result. This truth has only been known a short time and for years people suffered great agony without being able to find relief. The discovery of Warner's Safe Kidney and Liver Cure marks a new era in the treatment of these troubles. Made from a simple tropical leaf of rare value, it contains just the elements necessary to nourish and invigorate both of these great organs, and safely restore them and keep them in order. It is a POSITIVE REMEDY for all the diseases that cause pain in the lower part of the body—for Torpid Liver—Headaches—Jaundice—Dizziness—Gravel—Fever Ague—Malarial Fever, and all difficulties of the Kidneys, Liver and Urinal Organs.

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H. H. WARNER & CO., ROCHESTER, N. Y.



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## SMYTH'S PILLOW-SHAM SUPPORTER.



A new and useful article for holding Pillow-Shams in place, both when the bed is made up or when in use. Will fit any bed, and can be put up in one minute by any one.

A beautiful Black Walnut sample sent free by mail to any address for Thirty Cents, or four for One Dollar. Postage stamps received. A liberal discount to dealers. Address

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TEACHERS and SCHOLARS should learn this beautiful art, which can be learned in spare hours. Short hand writers get \$1,500 a year and upwards. The system is easily learned. Complete Self-Instructor for students sent for 30 cents—three silver times. Address,

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The American Agriculturist (\$1.50), Farm and Fireside (50 cents) and the Farmers Magazine and Rural Guide (35 cents), two large monthlies and a semi-monthly all sent to one address for \$1.60. A farmers library. To know of other equally wonderful offers send for a free sample copy of the FARMER'S MAGAZINE AND RURAL GUIDE, to POTTSBROTHERS, Parksburg, Chester Co., Pa. before subscribing for any paper.

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As productive as Crescent; double the size; bright scarlet color; firm as Wilson; flavor equal to the best.

### Souhegan Black Cap Raspberry.

Ripens one week before Doolittle far more productive

**30 ACRES BIG BERRIES** 100 Best sorts Plants. Currants Grapes, by mail or express. See our Catalogue before buying—free  
HALE BROS., S. Glastonbury, Ct.

Please mention Seed Time and Harvest.



Let every one, whether interested much or little in working the soil, send now for our carefully written Catalogue, and decide for themselves whether they can afford to do without the aid of one or more of our inventions. It will pay Farmers, who grow anything which has to be planted

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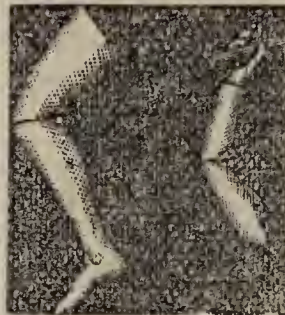
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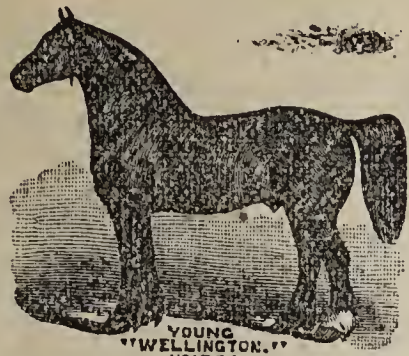
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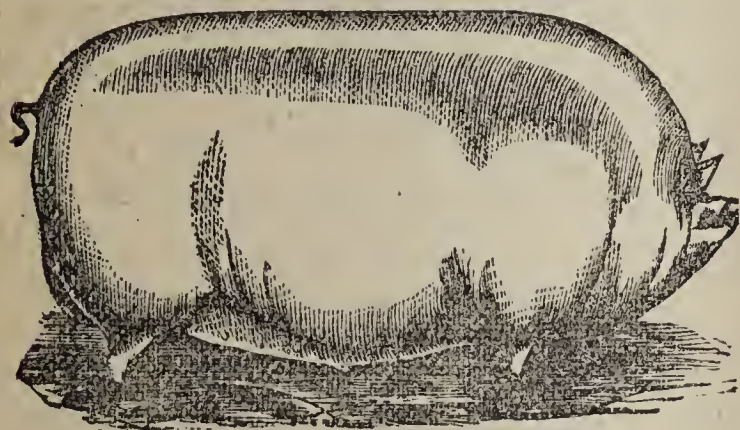


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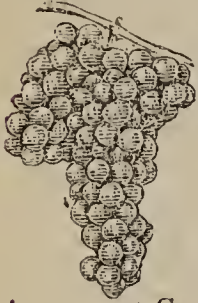
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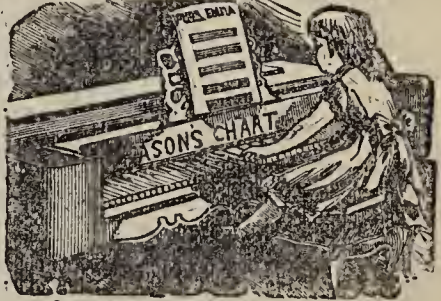
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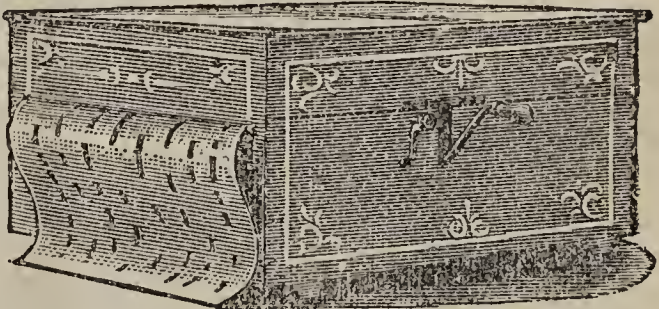
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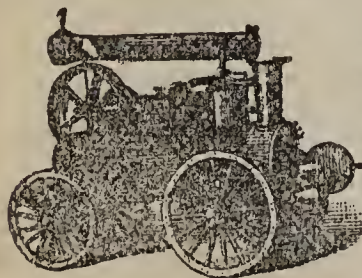
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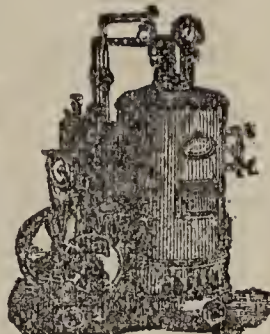
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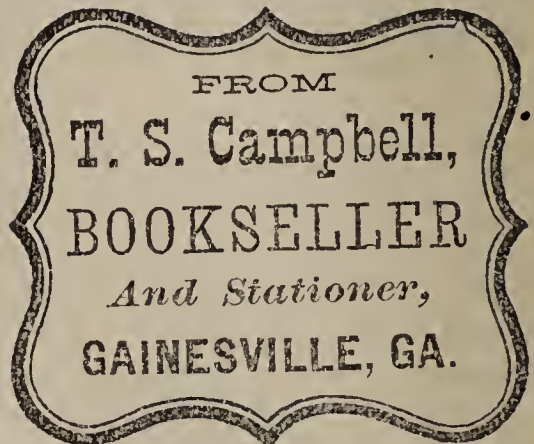
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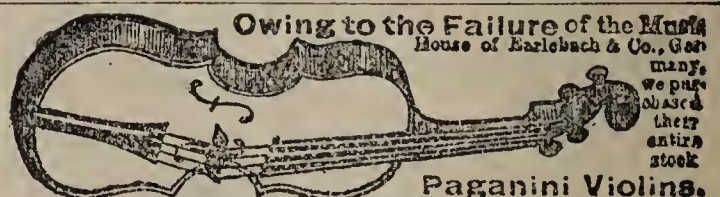
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## LEXICONIC ORTHOGRAPHY.

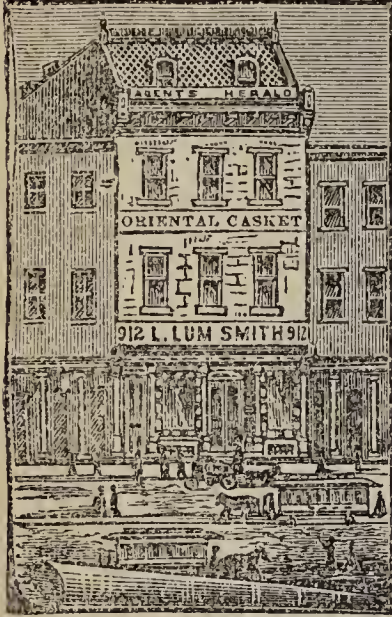
### The Great Literary Prize Contest.

Appropriately Dedicated, By L. Lum Smith, with Mrs. Jas. A. Garfield's Express Permission, to the Memory of Our Late Illustrious President.

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Grandest Fea-  
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It offers cash for every hour's work, and is as simple as A B C. Any boy or girl can compete as readily and successfully as the most illustrious professor of English letters. It is a Paid Pleasure, and if the competitor so chooses, "a new way to pay old debts."

The AWARDS from \$500 to \$1 will be paid in gold. To edit the contest with all due care, we have engaged Mr. Emerson Bennett, the distinguished author, and Mr. W. R. Balch, compiler of "Garfield's Words," and late managing editor of the *American*, who will be assisted by a sufficient corps of aids. In the hands of these gentlemen Lexiconic Orthography will become an affair of national moment, arousing the liv-

liest interest wherever the English language is spoken, and call into active play the best talents and the most commendable abilities of our people.

### THE LATEST NOVELTY IN THE WORLD OF LETTERS.

Every contestant will be quite as much astonished at the result as those who have never before considered the wonders of our language; and the superficial egotist, who would have scornfully scouted the idea of not understanding his mother tongue, will be taught a beneficial, even though a humiliating, lesson.

Never was any plan proposed that offered to railroad travellers a more fascinating way of occupying the dull hours in the railroad train. It is impossible to read when the car is shaking, but, with a pencil and paper, Lexiconic Orthography can be most advantageously followed, to both profit and delight. Try it on your next journey.

Seven degrees of honor and seven classes of awards are equally open to all who choose to avail themselves of the privilege. Who shall win? Is it not as likely to be the toiling mechanic as the wealthy merchant? the modest pupil as the learned professor? the humble workwoman as the lady of fashion? Both sexes, all classes, all ranks, all ages, will contend for the honor and glory of winning, even if caring naught for the pecuniary reward: but who among the multitude shall be the immortal seven to place their names within the laurel wreath on the Garfield Lexiconic Acrostic Souvenirs, surrounding the beloved brow of him who has gone down the dark valley amid the mournful weepings, not only of a nation, but of a world?

In the editing of *Lexiconic Orthography* we pledge our selves to be governed by conscientious impartiality, and to decide with unbiased judgment between each and all, and award to merit what to merit is due, "without fear, favor, affection, or the hope of reward."

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Voluntarily appeared before Magistrate of Court No. 8. L. Lum Smith, who doth swear that the circulation of the November (1881) *HERALD* will exceed 200,000 copies.

L. LUM SMITH.

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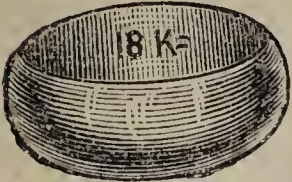
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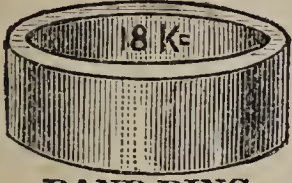
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If you will cut this advertisement out, show it to your friends, and get a club of seven to join you, and send us \$14.00, with 70 cents extra in stamps to help pay postage, we will send you the Revolver and Magazine free for your trouble. **PLEASE BEAR IN MIND** that each one in the club will also get the Revolver and Magazine, and when full amount \$14.70 is sent with the club order, we will put in a box of cartridges for each Revolver. As to our reliability, we refer to any New York Publishers or Merchants. Send money by Registered Letter or Post Office Order at our risk.

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THE CLARK APPLE.

CHARLES DOWNING, in Third Appendix to Downings Fruits and Fruit Trees of America, says of this variety :

CLARK APPLE. An early and profuse bearer on alternate years. It is said to be uniformly fair, very productive, adapted to all purposes and keeps a long time, which makes it a favorite and popular fruit where known. Fruit medium, oblate, slightly angular, slightly conic; skin whitish, often with a blush, and moderately sprinkled with grayish dots, stem short, calyx closed, flesh white, half-fine, crisp, tender, juicy, sprightly sub-acid, with a sprightly aromatic flavor; core rather large. Ripening in succession from September to January, and can be kept much longer.

This variety originated many years ago in what is now Lackawanna County, Pa.

Until very recently no attempt has been made to call the attention of Fruit Growers to it, yet it has by force of its own merits been grafted into many orchards, and is now known and highly prized over quite an extent of country. With us its profuse bearing is not confined to alternate years, but a heavy yield is looked for regularly with much greater confidence than most kinds which are called regular bearer.

We have forwarded samples of this fruit to several well known nurserymen whom we think competent to judge of its value, and present below a few extracts from the replies received.

"The fruit is smooth, fair and sound. Would rank in quality as Very Good; We should say it is, strictly speaking, a fall apple, and if the tree is a good grower and bearer, as you say it is, it is worthy of general cultivation. We should like some scions of it some time next winter.

Ellwanger & Barry, Rochester, N. Y. Nov., 1879.

"Your favor of 23d is received; also specimens of the Clark Apple. The specimens are larger and finer than those sent last year. The quality is excellent and if the tree is a good grower it is well worthy of dissemination.

Ellwanger & Barry, Rochester, N. Y. Nov. 4th, 1880

"Your kind favor and also the box of Clark Apples were received last evening in good condition, for which I am very much obliged. The apples are of very good quality—not rich—but very tender and pleasant and would suit almost any taste, except those whose tastes are vitiated by condiments and high seasoned food, liquors and tobacco. Mr. Samuel Stevenson has sent me samples of this apple for the past two years, and writes me that he prizes it very highly.

Charles Downing, Newburgh, N. Y., Oct., 1880.

"Yours of the 25th inst., to hand, also the box of Apples. In size I would say they are just right and handsome in appearance, although would be more so if possessed of more color. In consistency of flesh it is simply charming,—so soft,—so fine grained, so creamy,—but think it lacks character,—is not highly flavored although eminently pleasant. It is very nice apple certainly, but in a general way is somewhat similar to Monmouth or Red Cheeked Pippin.

J. T. Lovett, Little Silver, N. J.

We have no trees of this variety, for sale and do not know that they can be obtained anywhere. But to those, who may wish it we will forward one dozen, 2-bud scions by mail, securely packed in moss for 25 cents, or 50 for 75 cents, or 100 for \$1.00. Give it a trial. It is a very early bearer.

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Any person who will cut out and return the following form to us duly signed together with 50 cents in silver or postage stamps, will have his name enrolled upon our books as our agent, and will receive SEED TIME AND HARVEST, for one year. With the first number will also be sent a certificate good for 50 cents worth of seeds in packets, to be selected by you from our list and mailed post-paid by us. The certificate and magazine can then be shown to your friends and we hope many new subscriptions taken, and you may retain 25 cents for each subscriber, who will receive the magazine for one year together with a certificate for 50 cents worth of seeds same as you have done. This offer will be limited to April 1st, 1882, unless continued by us in our April number. Cut off and return this properly filled;

Address, SEED-TIME AND HARVEST, LA PLUME, LACK'A CO., PA.

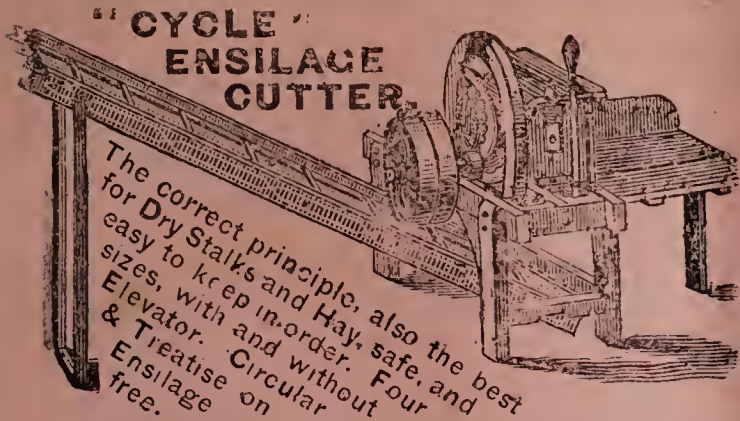
Dear Sir: I enclose 50 cents. for which please enroll my name as your agent and send SEED-TIME AND HARVEST to me for one year, together with the 50 cent certificate. I will show the magazine to all my friends whom I think will be interested in it and want seeds, and procure for you all the subscribers I can at 50 cents each, for SEED-TIME AND HARVEST and the certificate for seeds, and will send you 25 cents net for each one I receive.

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- |                                |                               |
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| or, 10 Ampelopsis veitchii,    | or, 4 Eucharis amazonica,     |
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| or, 6 Begonias, flowering,     | or, 10 Ferns, best varieties, |
| or, 10 Calla Ethiopica,        | or, 10 Gardenia florida, Cape |
| or, 8 Camellias, assorted,     | or, 10 Jasminum,              |
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The following articles were overlooked in making up my Price List within;  
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| Strawberry Seeds from Sharpless and Crescent         | 10             |
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| Golden Grains Wheat, 2 oz. pkt., 25 cts. per lb.,    | 1 50           |
| Mammoth Russian Sunflower, pkt. 5, oz. 10, lb.       | 80             |
| German Millet, oz. 5, lb. 50, bushel on application. |                |
| Early Amber Sugar Cane, .....                        | oz. 5, lb. 60  |
| Pearl Millet, .....                                  | oz. 10, lb. 80 |
| Cocanut Squash.....                                  | pkt. 5, oz. 35 |

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Number Ten.

# Seed-Time and Harvest.

1882.



A Quarterly Agricultural and Horticultural  
Magazine.

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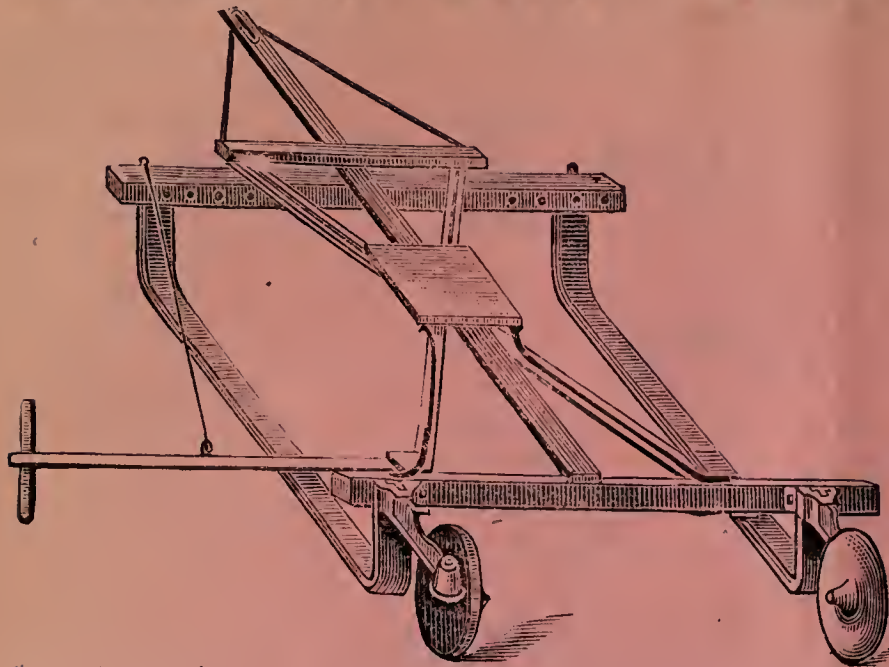
Seed-Time and Harvest Publishing Co.,

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# DARNELL'S PATENT FURROWER AND MARKER.



In offering this Implement to the Agricultural community we feel assured we have in it the best device for marking out or covering rows, etc., that has yet been produced for that purpose, for the following reasons, viz:

**It will run steadier, open a better row, either in hard or soft ground, than any marker in use. It is not choked out by manure, trash or clods, and leaves the earth in the bottom of the furrow in a pulverized condition, thus making an excellent seed bed.**

The runners are composed of wrought T angle iron, the disks or markers (fifteen in diameter) are of cast iron, with chilled hub and steel axle, which add greatly to its durability. Its peculiar construction with broad runners to prevent the sled from sinking into the soft earth, as well as to steady its motion, and the revolving disks which cut a straight and clean furrow, renders the draft very much less than that of the ordinary marking sled. The runners and markers are adjustable and will mark any width desired

from two and a half to four and a half feet, and from a mere mark to six inches in depth. Width of furrow from two to five inches as desired. The gauge or guide pole is so constructed as to adapt itself to all the inequalities of the ground. These Implements have been in use in various sections of Burlington county, N. J., during the past two years, and have given universal satisfaction.

We give below a few testimonials and references from parties who have used them:

Moorestown, N. J., Feb. 24, 1882.

H. W. Doughten: I have used Darnell's Patent Furrower for the past two years. It gives me pleasure to recommend it to any farmer, as I consider it superior to anything I have yet seen for the purpose, the ground being left in a much better condition for receiving seed and the draft much lighter.

ASA ROBERTS.

H. W. Doughten: The Darnell Patent Furrower I purchased two years ago has given me entire satisfaction. It is the only sled that will do on all kinds of ground. It is very good for making up rows for cabbage, strawberry and other plants. I also used it for plowing away from and up to strawberry plants and marking out for potatoes with satisfactory results. When corn is planted with care and the grains dropped closely together it can be plowed away from with the sled very nicely the first time it is worked.

Moorestown, N. J., Third Mo. 6th, 1882.

JOS. H. ROBERTS.

H. W. Doughten: Think Darnell's Patent Furrower far superior to other kinds. Can draw a straighter and deeper furrow, leaving the ground more loose and mellow.

Mt. Holly, Feb. 26, 1882.

ISAIAH E. ATKINSON.

## REFERENCES:

Jos. E. Roberts, Hartford, N. J.; Howard Middleton, Crosswicks, N. J.; John G. Haines, Moorestown, N. J.; Henry Prickett, Medford, N. J.

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may be used for Corn and other hill crops when dropped with this machine, without fear of the seed being burned, or the germinating principle destroyed. It has been satisfactorily proved that an active man when familiar with the use of the implement can go over from six to eight acres in one day.

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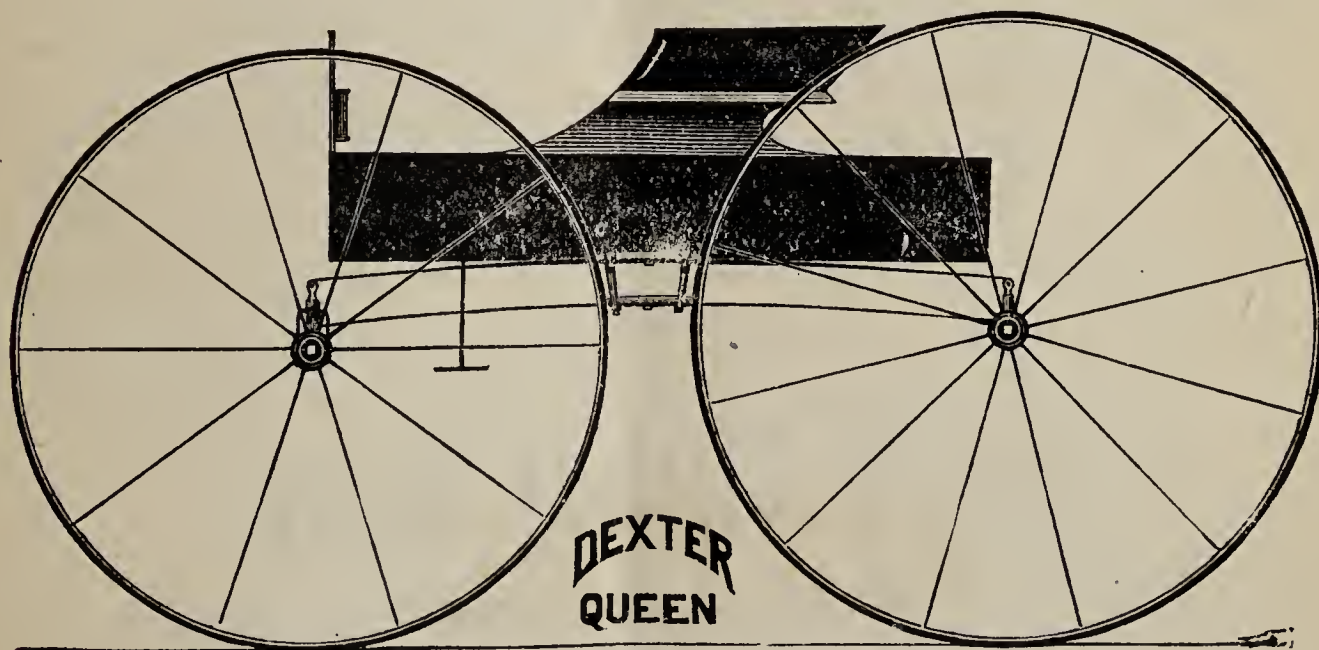
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**SUTTO BROTHERS,**



# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO. X.

APRIL,

1882.



SHAFFER'S COLOSSAL RASPBERRY.



## Seed-Time and Harvest.



WHEN the balmy winds of springtime  
Blow their breath across the plain,  
Melting off the snows of winter  
Filling things with life again,—

Then within the earth's broad bosom  
Scatter we the precious seed,  
Looking forward to the harvest,  
Providing for a future need.

And, as days of summer lengthen,  
How we watch with eager eyes  
The slow progress of our harvest,  
Growing to a ripening size.

For when summer's heat is over,  
And autumn winds go blowing past,  
If we've been faithful to our duty,  
The seed will bring good fruit at last.

Thus it is life's seed is planted,  
Planted in our youthful days,  
And it grows into a harvest,  
As we go upon life's ways.

If we plant the seed of wisdom,  
And destroy the weeds of sin,  
Happy lives and many blessings  
Is the reward we'll surely win.

No matter what our worldly profit,  
No manner in what place we go,  
Our reward will be according  
To the kind of seed we sow.

Then as we sow good seed in springtime,  
Let us sow good seed in youth;  
Always trying to be faithful  
To our duty, and to truth.

## Shaffer's Colossal Raspberry.

BY CHARLES A. GREEN, CLIFTON, N. Y.

This remarkable variety originated with the veteran George Shaffer, in the town of Wheatland, Monroe Co., N. Y., in 1869. The original plant, now over twelve years old and growing where the roots of trees rob it, is yet remarkable for its wonderful vigor and productiveness. Mr. Shaffer brought us two plants of his raspberry in 1879. We divided them, making four small plants, all of which lived. One of them threw up a fruit stalk, producing, three months after planting, about one-hundred berries. We sent this specimen branch entire to Charles Downing, Newburg, N. Y. They were not fair samples as to size.

but good for such an infant plant. Mr. Downing replied: "The seedling is large for its class, being quite firm, flesh sprightly, sub-acid. I would think fine for cooking purposes—the color is a little too dark to suit the eye for marketing. The specimen branch shows that it is very productive. It is certainly a promising variety of its class." This variety surprised us each succeeding season by increasing in size and productiveness, and was viewed with astonishment by all who saw the fruit, yet we gave only ordinary culture, without enriching the soil. The past season we premitted the four original plants to grow without cutting back, and they now stand nine to ten feet high. A farm wagon and team could have been concealed behind them. Other varieties in the same rows and adjacent, look like pigmies in comparison to these giants, whose roots spread out like those of saplings, filling the earth far and wide. In 1880 Mr. P. C. Reynolds, Rochester, N. Y., editor of the *American Rural Home*, Secretary of our Western New York Horticultural Society, and a veteran fruit grower, visited our place to see the new raspberry, and expressed himself as astonished at the great size of Shaffer's Colossal, saying that it was the *largest raspberry* he ever saw. Mr. Wm. C. Barry, of Ellwanger & Barry, Rochester, N. Y., was here when Shaffer's Colossal was in bloom, and spoke of the surprising vigor displayed in the growth of the canes. Neighbors who ordinarily cared little for such fruits urged us persistently for the plants, as they did the originator, but we could not then part with them. Mr. Shaffer's first plantation was on low muck, his second on light drifting sand, where corn attempting to grow failed, on account of lack of fertility. Our soil is a rich, clayey loam. In all the different locations and soils it is equally vigorous. It appears to be an iron-clad in hardiness, surviving the severest winters, unprotected, without the least injury. We consider it as hardy as the Turner, desirable for the severe Western States. Its season is the same as Gregg; it remains in bearing longer. The following gentlemen have this berry for testing: Charles Downing, M. P. Wilder, J. J. Thomas, Samuel Hape, Suel Foster, T. T.



Lyon, John A. Warder, Robert Burneett, Josiah Hoopes, E. P. Roe, John Saul, O. B. Gallusha, A. S. Fuller, E. S. Carman (*Rural New Yorker*), P. T. Quinn, B. F. Transon, Parker Earle, Wm. Parry, F. M. Hexamer, John T. Lovett, D. B. Wier, Prof. George Hussman and others, covering the various climate conditions of nearly the whole continent.

We have no hesitation in claiming that as it appears here, this is the LARGEST RASPBERRY in the WORLD, as it averages gathered by the bushel from the field. We claim also that it is the most vigorous in growth of cane, and that it is exceedingly productive. It is a Cap berry, propagating from tips.

President T. T. Lyon, of Michigan, makes a favorable report of it from spring set plants.

### Market Gardening.

MR. W. F. MASSEY, an old and experienced gardener and plant grower of Maryland has recently written an article for the *American Farmer* which is so full of interesting and valuable ideas on the use of glass in gardening for market that we feel constrained to present it to our readers. He says:

In our ideal market garden we will suppose there is at least one greenhouse or forcing-pit, say 10x50 feet inside, provided with heating apparatus capable of maintaining a night temperature in the coldest weather of at least 60 degrees Fahrenheit without necessity for too much sitting up at night. Also that there are sashes, 3x6 feet, to the number of 250 or more, with frames provided for double the number of sashes. Being so fixed, if our land is all right we are prepared to be in market with the earliest. We will begin with the tomato crop February 1st, though the greenhouse and sashes will not be idle up to that time, as we will hereafter show. The house should be arranged with a walk though its whole length about two and a-half feet wide, and tables on each side three and three-quarters feet wide. These not more than twelve inches from the glass at the

side of the house, and the flue or hot-water pipes should be about the same distance underneath. A strip nailed on the front and back of this bench or table should be deep enough to allow a bed of soil thereon about three inches deep. Be sure always that there is an open space between the back of the table and the side of the house, to allow the heat to rise next the glass.

Having the house in readiness, we will place on these tables three inches of good loamy soil. This soil is best prepared by cutting sods from an old pasture and stacking them up, with a good proportion (say one-fourth) of cow manure, for a year previous to using. (Florists have long known the value of such loam, and market gardeners would find that a good sod stack, always kept replenished and placed under cover in winter, would be of equal value to them.) February 1st, in the warmest corner, sow seed of Acme tomato in boxes of soil very thickly, and maintain a *night* temperature of 55 to 60 degrees. They will soon make their appearance, and just so soon as the plants can be handled lift them carefully from the seed boxes and transplant them into the soil on the tables, about two inches apart each way. A night temperature of 50 degrees will now be plenty, as a high heat will tend to "draw" the plants.

When the plants have made two or three sets of rough leaves and begin to look crowded, go over them and cut them all down to the seed leaves. Now keep them rather dry until they shoot apart. Pinch shoots that seem inclined to grow too fast, and above all, keep the house well ventilated in day-time whenever the temperature is above freezing. If these matters are well attended to by the first of April, there will be a nice, short, stout, healthy lot of plants ready for the frames. At this date the sashes can be taken from the frames on which they have been used for cauliflower, etc., during the winter, and placed on some of the spare frames. Take the plants from the greenhouse tables and put them in the frames, fifty plants to a sash. Protect the glass with mats for a while, and gradually harden off so as to be ready for the open ground by the end of the first week in May



for this latitude. The after culture is well known.

Now, in any ordinary season an acre of tomato plants treated in this way ought to produce, between June 20th and July 10th, (which last is about the date the first Anne Arundel tomatoes usually appear in Baltimore,) at least fifteen bushels of fine tomatoes (I have had over twenty bushels in the same time.) For several years past the first Anne Arundel tomatoes have brought five dollars a box. Last year they brought five dollars a box up to the middle of July. So the additional twenty days will give us at least seventy-five dollars an acre. Now, a greenhouse such as I have described will accommodate plants for four acres, and have a warm corner to start a box of egg plants a while before the tomato plants go out. So the advance on four acres of tomatoes alone will build such a greenhouse in one season.

Two years ago, when I cut down my tomato plants, I put the tops into the propagating house and rooted them. They were put out into frames at the same time the cut-down plants were, and at planting time no one could see any difference in size of the plants. At ripening time the cut-down plants were full three weeks ahead of the tops. I have also given friends plants before they had been cut down, who treated them in the usual manner, and yet were weeks behind my plants drawn out of the same box.

### Round-Headed Apple Tree Borer.

James W. Robinson, Esq., of Fremont, Ill., an ex-president of the Illinois State Horticultural Society, gives the following mode of dealing with this destructive insect: The eggs are deposited in the bark of the tree, the beetle puncturing or splitting the bark of the tree upward or downward and a little sidewise, the puncture looking very much as if made with an ordinary pocket-knife. The eggs are usually injected into this puncture so deep as to be out of sight; but not always. On young and thin barked trees the eggs will be pushed in next to the wood, but in older and thicker

barked trees they will only be through the hard outer bark and the inner soft bark. As soon as the egg begins to hatch, which is in a few days after being deposited, its enlargement causes the puncture to open, and thereby it is much easier detected. The young borer hatches out in the inner side of the egg and eats out a circular piece the size of a half dime; and then starts off, boring upward at first, but sometimes sidewise or downward. At this state of development it is easy to detect the young depredator by a few drops of discolored juice of the tree extending from the puncture and sticking on the bark. The larvæ usually bore down below the ground surface in winter, and up again in summer, living in the larvæ state in the tree nearly two years then boring out in the form of the beetle, ready to repeat their round again. The remedy I have successfully used is to keep the ground around the trunks of the trees clean and mellow, so that there will be no cracks or openings there for beetles to get in to lay their eggs in the tree, and so that the puncture where the eggs are laid or young beetles hatching may be easily seen, and eggs or insects destroyed, which can be done while in the eggs by merely pressing firmly on the puncture with a knife blade (the cracking of the egg can be heard distinctly,) and if hatched, by cutting away the dead bark over the little cavity first eaten out, and killing the young worm. The borers do not go into the wood much the first year, and can be easily followed with the knife; but if not taken out soon after hatching, they seriously injure if not entirely kill the tree, especially when they run around under the bark, as they sometimes do. Or, when several borers are in a small tree, they so injured it that it breaks over with the wind. If the ground is well cleared and patted down smooth around the trees about the last of June, the destroying of the eggs and young borers will be more certain. The trees should be examined twice or three times a year, if the borers are very numerous, in order that the first hatched may be killed before they do serious injury to the trees. August, September and October are the months in which to



destroy them. They seem to infest certain parts of an orchard from year to year while other parts are comparatively exempt. Low grounds have been more infested with me than higher parts of the orchard. A man can usually examine and kill all eggs and borers in five hundred or more trees per day, if the ground has been properly prepared, and no work in any orchard is more absolutely necessary.

### A Housekeepers's Tragedy.

ONE day as I wandered I heard a complaining,  
 And saw a poor woman the picture of gloom;  
 She glared at the mud on the door-step ('twas  
 raining,)

And this was her wail as she wielded her broom:

"Oh, life is a toil and love is a trouble,  
 And beauty will fade and riches will flee,  
 And pleasures they dwindle and prices they double,  
 And nothing is what I could wish it to be!"

"There's too much of worryment goes to a bonnet,  
 There's too much of ironing goes to a shirt,  
 There's nothing that pays for the time wasted on it,  
 There's nothing that lasts but trouble and dirt."

"In March it is mud, it's slush in December,  
 And midsummer's breezes are laden with dust;  
 In fall the leaves litter, in muggy September  
 The wall-paper rots and the flat-irons rust."

"There are worms in the cherries, and slugs in the  
 roses,  
 And ants in the sugar, and mice in the pies,  
 The rubbish of spiders, no mortal supposes,  
 And ravaging roaches and damaging flies."

"It's sweeping at six and dusting at seven,  
 It's victuals at eight and dishes at nine,  
 It's potting and panning from ten to eleven,  
 We scarce break our fast ere we plan how to dine."

"With grease and with litter from outside to center,  
 Forever at war and forever alert,  
 No rest for a day lest the enemy enter,  
 I spend my whole time in a struggle with dirt."

"Last night in my dreams, I was stationed forever  
 On a bare little isle in the midst of the sea,  
 My one chance of life was a ceaseless endeavor  
 To sweep off the waves, ere they swept over me."

"Alas! 'twas no dream—again I behold it,  
 I yield, I am helpless my fate to avert."  
 She rolled down her sleeves, her apron she folded,  
 Then laid down and died, and was buried in dirt.

From Garden Talks.

### Tomato Plants from Cuttings.

Have any of our friends ever tried to raise tomato plants from cuttings, and if so with what results? Last fall (1881) we rooted a slip from a tomato-vine, which had escaped the first frosts of the season, and at the same time we planted some seeds. The cutting is now quite a large plant, branched out and in full blossom, promising fruit, whilst the seedlings are still small, without signs of either branch or blossom. From this experiment we conclude that, while all the numberless attempts during the last decade, to produce earlier bearing varieties of as good qualities as some of our best popular sorts possess, have proved to be failures, or nearly so, we may still look in another direction for attaining this end, so eagerly sought. Every florist knows that even small cuttings of house plants come to bloom just as if they were not severed from the parent plant and put on their own resources. Every branch or sucker of the tomato-vine produces blossoms with the tendency to bear fruit. Is it not reasonable to expect, that when turning such branch into an individual plant, this natural tendency is preserved, the same as it is in case of the geranium slip?

The problem of pushing the fruiting season of this wholesome vegetable a week or two ahead, can, we have no doubt, be solved by the use of cuttings instead of seedlings. At any rate, we promise to surprise those of our friends, who are in the habit of buying our tomato plants, by offering to them the coming season more thrifty and stocky plants than they have ever bought, all branched out and ready for fruiting.

A WRITER in the *Fruit Recorder* says he has discovered from practice that sulphur, one ounce to a gallon of water, and sprinkled or syringed over grape vines, just at nightfall, will destroy insects and mildew and leave no bad show afterward. When sifted as a powder it has an unpleasant and often times injurious effect, although it is acknowledged a specific manure of value, even when applied broadcast upon the soil.



## A Sermon in Rhyme.

If you have a friend worth loving,  
 Love him. Yes, and let him know  
 That you love him, e're life's evening  
 Tinge his brow with sunset glow.  
 Why should good words ne'er be said  
 Of a friend till he is dead !

If you hear a song that thrills you,  
 Sung by any child of song,  
 Praise it. Do not let the singer,  
 Wait deserved praises long.  
 Why should one who thrills your heart,  
 Lack the joy you may impart ?

If you hear a prayer that moves you  
 By its humble, pleading tone,  
 Join it. Do not let the seeker  
 Bow before his God alone.  
 Why should not your brother share  
 The strength of "two or three" in prayer ?

If you see the hot tears falling  
 From a sorrowing brother's eyes,  
 Share them. And, by sharing,  
 Own your kinship with the skies.  
 Why should any one be glad,  
 When a brother's heart is sad ?

If a silvery laugh is rippling,  
 Through the sunshine on his face,  
 Share it. 'Tis the wise man's saying—  
 For both grief and joy a place.  
 There's health and goodness in the mirth  
 In which an honest laugh has birth.

If your work is made more easy  
 By a friendly helping hand,  
 Say so. Speak out brave and truly,  
 Ere the darkness veil the land.  
 Should a brother workman dear,  
 Falter for a word of cheer ?

Scatter thus your seeds of kindness,  
 All enriching as you go;  
 Leave them. Trust the Harvest Giver.  
 He will make each seed to grow:  
 So, until its happy end,  
 Your life shall never lack a friend.

### A Hint for Sunday School Superintendents:

BY "SMILAX."

Bethany Presbyterian Sunday School of Philadelphia, Pa., is one of the largest and best known schools in the United States. It takes the lead in Sunday School work, being regarded as a model. At present the number of scholars and teachers on the rolls

agregate 2500, while the average attendance is over 2000. The school has attained its present popularity by having introduced to its scholars things peculiarly adapted to them. Nothing dry or uninteresting is permitted to have a place on its order of exercises but things that will amuse children, while they serve to impress earnest truths indelibly upon their memories, are diligently sought after. The exercises are never tedious and children all love to go to Bethany. The school is under the charge Mr. John Wanamaker who has been superintendent since the formation of the school. The twenty-fourth anniversary exercises were held on Thursday, February 16th and I want to give your readers a short description of a very interesting part of the exercises. After many interesting exercises each scholar was presented with four packets of flower seeds with full directions for planting and care, and a flower pot with the name "Bethany" moulded on it. It was also stated that a flower show would be held in July at which prizes would be given to the scholar making the best show from these seeds. This present was received by the children with delight and in many homes at the present time the children are watching the growth of their plants with interest. This plan is a remarkably good one and one that can be adopted by every Sunday School in the country at a very small outlay. The superintendent or teacher can procure seeds at a very small cost from people who make a specialty of putting them up. The children will take an interest in seeds given them in this manner. They will be diligent in their care, will learn habits of industry, will study hard to find out the best methods for making their plants healthy and strong and thus secure a thorough knowledge of horticulture which will be useful to them in after years. In large cities the children can thus be taught to cultivate plants and then distribute them to the poor and needy, the sick in hospitals or in squalid homes. Many an invalid has hailed with pleasure the present of a tiny little flower whose rich fragrance and beautiful leaves have given them something to gaze at with pleasure.



lifting them, in imagination from their squalid dingy room to broad green acres of the country, where the din and noise of the great city is unheard. The hint is given. You will find the plan an easy one to put in to execution and productive of much good. Try it and see if you cannot learn your scholars more good lessons than by any other method and by the refining influences of flowers make them better and nobler boys and girls.

### Don't Whine.

Don't be whining about not having a fair chance. Throw a sensible man out of a window, he'll fall on his feet and ask the nearest way to his work. The more you have to begin with, the less you will have in the end. Money you earn yourself is much brighter than any you can get out of dead men's bags. A scant breakfast in the morning of life whets the appetite for a feast later in the day. He who has tasted a sour apple will have the more relish for a sweet one. Your present want will make future prosperity all the sweeter. Eighteen pence has set up many a peddler in business, and he has turned it over until he has kept his carriage. As for the place you are cast in, don't find fault with that; you need not be a horse because you were born in a stable. If a bull tossed a man of metal sky high, he would drop down into a good place. A hard working young man with his wits about him will make money while others will do nothing but lose it. "Who loves his work and knows how to spare, may live and flourish anywhere." As to a little trouble, who expects to find cherries without stones, or roses without thorns? Who would win must learn to bear. Idleness lies in bed sick of the muligrubs, where industry finds health and wealth. The dog in the kennel barks at fleas; the hunting dog does not even know that they are there. Laziness waits till the river is dry, and never gets to market. "Try," swims it, and makes all the trade. "Can't do it" would not eat the bread but for him, but "Try" made meat out of mushrooms.—  
*John Plowman.*

### Fancy Farmers.

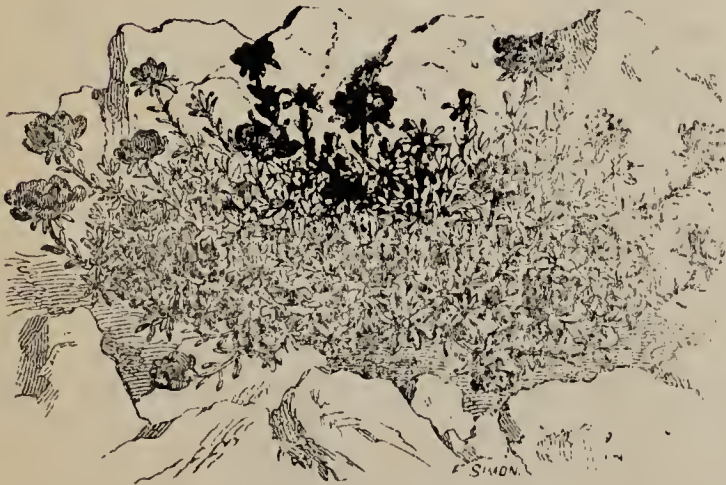
No class of men have been ridiculed so much, and none have done so much good, as those who are denominated fancy farmers. They have been, in all times and countries, the benefactors of the men who have treated them with derision. They have experimented for the good of the world, while others have simply worked for their own good. They tested theories while others raised crops for market. They have given a glory to the occupation of farming it never had before. Fancy farmers have changed the wild hog into the Suffolk and Berkshire, and the wild cattle of Britian into Shorthorns; the mountain sheep with its lean body and hair fleece, into the South-down and Merino. They brought up the milk of the cows from pints to gallons. They have lengthened the sirloin of the bullock, enlarged the ham of the hog, given strength to the shoulder of the ox, rendered finer the wool of the sheep, added fleetness to the horse, and made beautiful every animal that is kept in the service of man. They have improved and hastened the development of all domestic animals from which they sprang. Fancy farmers introduced irrigation and underdraining, also grinding and cooking for stock. They have brought guano from Peru, and nitrate from Chili. They introduced and demesticated all the plants we have of foreign origin. They brought out the theory of the rotation of crops as a natural means for keeping up and increasing the fertility of the soil. They first ground up gypsum and bones, and treated the latter with acid to make manures of peculiar value. They first analyzed soils as a means of determining what was wanted to increase their fertility. They introduced the most approved methods of raising and distributing water.

THE MAN has not lived in vain who plants a good tree in the right place; and the sentiment which prompted the tree-planting organizations at the west, and caused a day to be set apart for a united, voluntary public effort in this behalf, is akin to that which set on foot our charitable and missionary societies.



### The Flower Garden.

Soon after the first of May the flower garden will need attention. It should be well dressed with well rotted horse manure spaded in. Small seeds should be covered lightly, and then covered over with wet meadow moss or green grass, or something that will prevent the evaporation of the moisture under it, to be removed as soon as plants make their appearance. Seedsmen are often condemned for selling poor seed, when it is the fault of the weather or the one who uses them. Look after the roses and see that they are properly trimmed. Do not put the plants out of the house until all danger of frost is over. Put in as good a variety and quantity as your means will justify, for nothing gives more pleasure than such an investment to all who admire the works of nature.



**The Portulaca.**

There is no better plant for covering bulb beds, or for a mass of color than this. It is a native of Mendoza, and the three original colors were yellow, red and crimson; while now we have all the colors of orange, white, yellow, crimson, red, striped and pink. We now have fine double varieties that look like little roses, and they are very handsome. Once make a good bed for this little plant,

and your work is done for years, only keep out the weeds and give a light top-dressing of manure every Autumn. The portulaca loves a light, rich loam, will sow itself and come up year after year, giving a profusion of bloom all the season long. The ground must be warm before planting seed, or else it will not germinate. The first of June is early enough to plant in the open ground.

### The Wild Garden.

Any one who has planted and cultivated flowers in neatly laid out beds or carefully planned ribbon borders, is aware of the amount of labor and constant attention necessary to produce the desired effect. To those who cannot give this care the "Wild Garden" presents a substitute which for its unusual and varied effects, for cheapness and the small amount of labor necessary for its construction, has no rival. To make a wild flower bed—select a piece of ground or narrow strip alongside a fence, hedge or wall, let the soil be thoroughly pulverized by spading and raking, and when the surface is perfectly level sow the seed broadcast, thinly and evenly as possible. Afterwards rake the surface lightly that the seed may be thoroughly mixed with the soil, then press the surface with the back of a spade or a smooth board, tolerably firm, and if the ground be dry, water thoroughly through a fine hose, and the work is done. Keep the ground free from weeds, and water frequently if the season is dry. But what is "Wild Flower Bed Seed?" It is a mixture of as many different varieties of hardy flower seeds as can be sold at a small cost. These various seeds, comprising a great number of species and varieties, are all mixed together and sold as "Wild Flower Seed." We furnish them—nearly 200 choice varieties well mixed at five cents per packet, or \$1.00 per ounce. One half or one-fourth ounce at same rate.

ALWAYS cut your flowers with a sharp knife or scissors, and early in the morning or at evening. Keep them well sprinkled, if possible add fresh water; if in a vase every day, and better warm than cold, and put in a little salt. Set the bouquet at night on the floor of a cool room or cellar.





HELIANTHUS GLOBOSUS FISTULOSUS.

**Too Too.**

BY SMILAX.

If the people of the United States had flocked into the folds of the new order of "æsthetics" what a business could have been done in the cultivation of the "utterly too too" sunflower! As you may know, the divine and supremely beautiful Oscar, who has come over to our shores with the "wild" idea that fully one half of our people will fall down and worship him, believes that there is nothing so beautiful as the sunflower. To live on a long lingering look at a sunflower, disdaining all such solid food as pork and beans, is an æsthetic's delight.

Oscar has come, has taken a glimpse of things, but he has not conquered worth a cent. *Veni* and *vidi* were all right but *vici* he cannot utter. True a number of people have lionized him and we find disciples of æstheticism in all parts of the country, but not in sufficient number to make the cultivation of the sunflower an industry. Last summer I was at Atlantic City, a noted watering place, and saw as high as fifty cents paid for a sunflower, but alas, they were soon quoted at a cent. The supply was greater than æsthetics. It is so at the present time. Æsthetics can get all the sunflowers they want at a small cost. But if the people in the United States, should become æsthetics in large numbers what an amount of money could be realized from the sale of these flowers. Just think

of Jay Gould, or Keene, getting up a corner on sun-flowers! Just think of the supply of sunflowers running short and fanatical æsthetics running around offering ten dollars apiece for them?

When you are through thinking of these questions recollect the fact that æsthetics are not increasing very fast and instead of going into the cultivation of sunflowers on an extensive scale you had better plant "taters," "inions," or some other truck which appeals to people's stomachs and therefore will meet with a better sale.

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**White Water Lily.**


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If our readers knew how easily the white water lily (*Nymphia Odorata*) could be cultivated we believe that very many of them would be quite as proud of their lily gardens as of any other portion of their premises. The roots having been procured in the fall were kept damp during the ensuing winter, in flower pots. In the spring a tub was made by sawing a large substantial barrel in two, and this, only painted green, was set on brick, put in the garden, and one-third filled with a mixture of garden soil, sand and well rotted manure. The roots were set in this mixture, water was added in small quantities, and at intervals of a day or two, and so gently as not to disturb the earth, until the tub was filled. Very soon the handsome round leaves, four or five inches in diameter, made their appearance and filled the tub. The loss of water by evaporation was made good from time to time, and ere long the blossoms appeared and delighted every one with their beauty.

When cold weather approached, the water was allowed to dry off almost entirely, and when it was thus nearly gone, the tub with its contents was placed in the cellar, and watered at long intervals through the winter. In the spring the roots were separated, and about half the increase returned to the same tub, in a fresh mixture of earth, and they are now brought out earlier than before, about April 1st, and blossom yet more profusely. The pure white flowers were as perfect as the camellia, and delightfully fragrant, closing in the night and re-opening in the morning as is the wont of water lilies. The blooms were about two inches in diameter, not quite so large as some of the specimens in the pond whence these roots were first taken, but not less beautiful nor less fragrant.—*Flower Garden.*



## Seed-Time and Harvest.

**Published Quarterly**  
FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER AGATE LINE.

Conducted by ISAAC F. TILLINGHAST.

LA PLUME, LACK'A CO., PA., APRIL, 1882.

Entered at the post-office as second class matter.

WE DESIRE to hereby return our thanks in a sort of wholesale way for a large number of samples of choice seeds, beans, potatoes &c., which have been forwarded to us from various sections for trial in our grounds. Is there not something in your family which has been kept for years, or more recently picked up on account of superior merits, which you think should be better known? If so, kindly send us a sample for trial and if we find it worthy we will propagate it and give the world the benefit.

WE WILL also return our thanks in advance for any notes or items of interest which you may kindly send us for publication. We desire to make SEED-TIME AND HARVEST one of the most interesting and instructive publications in the country. Don't you think we can succeed if YOU will help us?

QUITE A MISTAKE occurred in our price list in the January Number. The column headed "pints" should have been "quarts." Prices look more reasonable now.

OUR SUPPLY of Eclipse Beet has become entirely exhausted and we cannot get more. We have therefore substituted its value in the Egyptian which is nearest like it, in many orders. Any persons who are not satisfied with this can return it to us and we will refund the money paid.

IT IS OUR CUSTOM on receipt of an order to immediately acknowledge it by postal card, on which is given the number of that order on our books. We especially request that customers will preserve these cards and if for any reason they ever have any oc-

casional to write to us concerning that order, they kindly give us the number. This will save us many hours of perplexity in searching for "one among ten thousand".

We will cheerfully correct any mistake if you will observe this request.

The *mixed seeds* we offer are grown separately and purely. They are made up by mixing a quantity of seeds of all the varieties we have of one species, to be sown together, the object being to make a greater variety and succession than could otherwise be obtained in a small family garden. This idea originated with us, and has met with greater favor than we anticipated. Would you not rather sow a package of cabbage seeds consisting of ten good varieties mixed than the same quantity of any one variety you know of? See our special offer of Family Garden collection on page 22.

THE NEW "GOLDEN DAWN" Mango which we first offered this spring was taken with such avidity that our supply has been completely exhausted. We will try and grow enough so that all who wish may try it next season.

CARELESS PEOPLE. There is a reason why some people do not get what they order. We have on file a bundle containing the following documents: A letter from Bulger, Pa., containing 20 cents, with no name signed. One from Greenleaf, Kansas, 10 cts. and no name. One with 20 cts and no post-office, county, state or signature. The writer wanted some Amber Cream Corn and Livingston's Tomato but did not get them. One from Jonestown, Miss., 51 cts, and no name. One from New Lots, L. I., 45 cts, no name. One with 51 cents for flower seeds, no post-office, state, county or signature. Six cents from Princeton, Ind., no name. Seventy-five cents from Sedgewick City, Kan., with no name.— Fifty cents for peas and beans, no post office, county, state or name. Fifteen cents from Woodstock, no state, county or name. Fifteen cents from Jordan's Run, W. Va., no name. \$1.09 from Middletown, no county, state or signature. The writer says he is just 11 miles from Pittsburgh, but the P. O. Directory gives no Middletown P. O. within 100 miles of Pittsburgh. Twenty cents



from Cowling, Ill., no name. Ten cents from Northford, no county, state or name. Ten cents from McCluney, Ohio, no name. A friendly letter from N. F. Pierson, on potato culture, expecting an answer, but giving neither post-office, county or state.

## A Black List.

There is a class of people who habitually get their supplies from seedsmen and nurserymen by making some delusive promises, which they never intend to fulfill. Some of these are quite well known to the trade, but thinking they deserve more notoriety we have concluded to put our Black List in type. We assure our customers that their names will never be placed upon this list until we are satisfied that it was their intention to defraud us. The fact that a man fails to pay a bill when it is due will not place him in this unenviable position if he can or will show us that his intentions are good. The following persons we believe have intentionally defrauded us, but if we are mistaken we shall be pleased to hear from them:

Ross A. Bagley, Big Creek, Georgia.  
 Theo. J. Bartz, Westcoesville, Lehigh Co., Pa.  
 I. H. Haines, Delphi, Indiana.  
 Johnson Berdine, New Freeport, Pa.  
 W. F. Mott, Olyphant, Pa.  
 J. K. Read, Columbia, N. J.  
 Cyrus McCully, Hubbard, Ohio.  
 John Q. Dice, McElhattan, Pa.  
 A. E. Doty, Pierceville, Pa.  
 Martin Lee, Tomkinsville, Pa.  
 W. W. Vanston, Maltortown, Ontario, Canada.  
 M. W. Chamberlin, Gibson, Pa.

## CHEEKY.

DELPHI, IND., March 28, 1882.

MR. TILLINGHAST, Sir: I wish you to send me by mail one pound each of the following potatoes and give me bill for same which I will send you by April 15, if satisfactory. I am teaching and will close my school by that time and can remit you the amount. One pound each, Wall's Orange, Belle, Defiance, Luxury, Cook's Superb, La Plume Triumph.

Yours Respectfully, I. H. HAYNES.

Would it not be better to pass your generous patronage around to some other seedsmen, or have you been the rounds and returned to us? You deliberately swindled us out of \$12.00 on June 20, 1876, and in our opinion ought to be ashamed of yourself to try to make it any larger. No, thank you, you are already posted on our Black List as a *Dead Beat*.

The Organita or Upright Organette, advertised by the Massachusetts Organ Co., Boston, Mass., is one of the most salable articles in the market. The price to agents is only \$5.00 each, and they are selling thousands of them.

## Prize Contest Report.

The interest manifested in our Prize Contest, which was announced in our January number, has exceeded our expectation, the total number of contestants being **663**. The correct answers to the three questions are as follows:

1st. The number of individual and firm names in which the address is given in such a manner that a letter so addressed would reach the party—**243**.

2d. The number of different varieties of Fruits, Flowers, Vegetables and Plants, in which none are counted unless it has a special name plainly given to distinguish it from some other variety—**442**.

3d. The number of words having the greatest number of different letters—**9**. The number of different letters in each—**12**.

The words are as follows:

1 Considerably, page 6.	2 Comparatively, page 9.
3 Unprofitable, page 13.	4 Productiveness, page 13
5 Productiveness, p. 17.	6 Handkerchiefs, page 26
7 Accomplishments, 27.	8 Advantageously, p. 30.
9 Productiveness, last page of cover.	

There were received 24 correct answers to the first question, 8 to the second question, and 21 persons found eight words with twelve different letters, no one contestant finding the whole nine words.

## THE SUCCESSFUL COMPETITORS.

The following were the best answers, and we award the prizes in the order named:

1st. F. E. Price, Nokomis, Ill. 244, 442, 8—12.  
 2d. Mrs. Clarence White, Chinchilla, Pa. 243, 445, 7—12.  
 3d. N. L. Van Dusen, Hinckley, Ohio. 242, 439, 8—12.  
 4th. Mrs. P. Halbert, Taylor, N. Y. 241, 443, 6—12.

Many counted *Rhyncospermum*, *Chrysanthemum*, *Hambletonians*, and other words in their list as having 12 letters. A careful count will convince them of the error.

Very nice lists were sent in by Aden A. Hixon, Worcester, Mass. A. Grigg, Hamilton, Canada. J. K. Helmbold, Daleville, Pa. W. T. McDonald, Lexington, Ky. J. J. Burtch, Wahoo, Neb. H. S. Owen, Pottersburgh, Kan. Daisy Mae Bell, Salisbury, Md. Jno. L. Meyer, Wellsburgh, W. Va. Mrs. W. H. Tedford, Columbus Junction, Iowa. Emma C. Muchmore, Convent Station N. J., and numerous others.

In our correct answers we count *J. C.* and *J. G. Burrow* as one, it being a typographical error. We count *Agent's Herald* and *L. Lum Smith*, as one. We count *Will W. Tracy, P. M. at La Plume*, *Dead Letter Office at Washington*, *Beet Sugar Factory Wilmington Del.*, and all the *Papers in club-list whose location is given or plainly indicated*. In flowers, the *Cal. Poppy* and *Eschscholtzia californica*, are the same. We count *four* of the Herbs, and *eleven* of Plants named in Dick's advertisement on last page of cover, all in strict conformity with the rules and requirements.





PLYMOUTH ROCK FOWLS.

For the above excellent cut we return our thanks to Mr. W. C. Hart of the "Rural Poultry Farm," Walden, N. Y., whose advertisement appears in this issue. Mr. H. is an enterprising fancier and has devoted much time and money to the development of the Plymouth Rocks, and the excellent birds he now has show that his labors have not been in vain. He says of the fowls of which the engraving gives but a fair idea:

"They are from 'Gilman's' Renowned Strain' with crosses of well-known 'Drake,' 'Upham' and 'Coddington' Strains, raised on farm with unlimited range. Pure blood. Beautiful plumage; distinctly barred feathers; large size—7 to 11 pounds. A strain possessing excellent laying qualities, with hardy constitutions and early maturity. The Plymouth Rock, is the most popular

breed of the present day, and the elements of its popularity are such that its permanency is assured. It combines within itself all the essential properties that contribute to make a breed pre-eminent."

We have lately had many inquiries for eggs of Langshans and other breeds of fowls for hatching. We would refer such enquirers to our advertising columns, and think they will find it to their advantage to deal with those whose cards appear there. We think our advertisers are all reliable persons and those who order of them will be justly dealt with.

While we have no decided preference for any one breed in particular, knowing that all have their good points, we think better success is attained by keeping pure bred fowls than by keeping the mongrel stock that adorns (?) many yards.



## Our Best Exchanges.

Among the many Journals that we receive at our office we are pleased to mention the following as being particularly valuable in the special features to which they are devoted. Most of them are offered at reduced rates in our Clubbing List:

**THE COUNTRY GENTLEMAN** properly stands at the head of the list of all agricultural journals for sterling merit and solid practical value. We have an uninterrupted file of some 20 volumes and would not take first cost for them today. Weekly, \$2.50 per year. L. Tucker & Son, Publishers, Albany, N. Y.

**ARTHUR'S HOME MAGAZINE**,—T. S. ARTHUR & SON, Philadelphia, devoted to general literature, and the improvement of mankind, still holds its high rank and grows even better as it grows older.

**THE FARM JOURNAL**, 144 North Seventh St., Philadelphia Pa. Monthly; 16 pages; 50 cents per year, or only 25 cents in clubs. If you are not acquainted with this Journal just send your name for a sample copy and I think you will become a subscriber.

**The Housekeeper**, Minneapolis, Minn., monthly, 75 cents a year, is one of those rare good papers whose every number is worth the full year's subscription price to every woman that is engaged in the laudable occupation of doing her own work. A most valuable department is that containing choice recipes for preparing all kinds of food, and all so plain that a child can understand. Our wife says it can't be beat.

**THE PRAIRIE FARMER**. A Weekly Journal for the Farm, Orchard and Fireside, is a large 8-page paper published at Chicago, Ill., at \$2.00 per year. The various departments are well edited and the whole make-up shows that men of brains are in charge.

**THE RURAL NEW-YORKER** still maintains its place in the front rank of Weekly Agricultural Journals. Its various departments are in charge of practical men and it now enjoys a greater popularity than ever. A highly prized feature is its experimental farm reports and its free seed distributions connected therewith. Publication office 34 Park Row, New York.

**VICK'S MONTHLY MAGAZINE**, Rochester, N. Y., devoted to Horticultural matters. Every number is finely illustrated with original engravings, and a choice colored plate each month is one of the attractions. Mr. Vick is a natural artist. Whatever he does is done well and his Magazine proves it.

**GLEANINGS IN BEE CULTURE**, monthly, published by A. I. Root, Medina, O. Devoted to "Bees, and Honey, and Good will to Men." This should be in the hands of every one interested in Bee Culture, and its Home Department will be found worth more than the subscription price, \$1.00 per year, to any person interested in his own spiritual welfare. Sample copies free.

**AMERICAN RURAL HOME**. A neatly printed and carefully edited eight-page weekly published at Rochester N. Y. Its editors are not unknown to fame as literary writers, and they keep their columns filled with unusually interesting matters. \$1.50 per year.

**THE PRACTICAL FARMER**, Philadelphia, Pa., takes a front rank among the great agricultural weeklies. By the change in the management, it lost nothing in size, while in quality it has improved very much. It is truly a practical paper for every farmer. \$2 a yr.

**THE FARM AND GARDEN** is the title of a new monthly published at Philadelphia, Pa. John E. Reed is the editor and its corps of contributors includes some of the ablest agricultural writers. Fifty cents a year.

**THE POULTRY MONTHLY** published by the Ferris Publishing Co., Albany, N. Y., comes filled with every good thing pertaining to Poultry, Pigeons, Rabbits and other pets. Splendid in make-up and well-edited \$1.00 a year. Send for it.

**THE NORTH AMERICAN REVIEW**, should be read by every patriotic American citizen. Its numerous articles upon important topics connected with the social, political and moral well-being of our people, make it pre-eminently the greatest exponent of our civilization. A series of articles upon the Pre-historic Ruins of Mexico and Central America, by the eminent French traveler and writer, Desire Charnay, has made the last year's numbers doubly valuable, and will be continued from time to time. Published at No. 30, Lafayette Place, New York.

**THE WESTERN PLOWMAN**, published at Moline, Ill., comes to us filled to overflowing with seasonable Agricultural and Literary matter of the highest order. It has now reached its fourth number and if the previous numbers are any index of the future we predict for it a large subscription and a welcome in every farmer's home.

**THE FARMERS' REVIEW**, Chicago, Ill., walks right in every week, and with its pages of statistics from all over the country shows what the farmers are doing. It advocates "profitable agriculture, anti-monopoly and equal taxation." \$1.00 a year, and well worth it.

**THE AMERICAN CULTIVATOR**, Boston, Mass. This is the oldest and best of the N. E. farm Journals. We know of no Agricultural journal of a higher standard or whose teachings are more reliable. Subscribers get their money's worth every time.

**THE AMERICAN BEE JOURNAL**, Weekly. Thomas G. Newman & Son, Chicago, Ill. Established at Washington D. C., in 1861, like the "Course of Empire" it westward took its way, and apparently lost nothing by the change. \$2.00 per year.

**THE FARMING WORLD**. We earnestly advise every man who reads for knowledge and works for money to at once send 80 cents for **THE FARMING WORLD**, for 1881. It is invaluable alike as a source of information and revenue as it offers large premiums to club-raisers. Address, The Farming World, Cincinnati, O.

**THE GARDENER'S MONTHLY AND HORTICULTURIST**. Edited by Thos. Mehan. A 32-page Monthly Magazine for the Flower Garden, Pleasure Ground, Landscape Gardening, Greenhouse, House Gardening, Forestry, Botany, Natural History and Science, Horticultural Literature, and everything pertaining to Aesthetic Agriculture. \$2.10 per year; Two new subscribers for \$3.20; Five subscribers for \$7; Single numbers, 18 cts. Address, Charles H. Marot, Publisher, 814 Chestnut St. Philadelphia, Pa. Try it a year.

**THE JOURNAL OF THE AMERICAN AGRICULTURAL ASSOCIATION**, 127 Water Street, N. Y., of which J. H. Reall, is editor is a new publication that bids fair to take a high rank. Each number contains about 200 pages filled with choice articles. The last number contains, A Description of a Model Dairy and Stock Farm The Fuel Problem of the Treeless Plains. Farmers and the Tariff. Co-Operative Experiments with Fertilizers. Agricultural Education for the Young. The Railroad and the Farmer, etc. Price, \$2.00 a year.

**THE AMERICAN FARMER**, published by Samuel Sands & Son, Baltimore, Md., is one of the oldest and best Rural Magazines in America. It will be published hereafter semi-monthly, and at \$1.50 per year is well worth its cost.

**THE HOUSEHOLD**, published by George E. Crowell, Brattleboro, Vt., should be in every home. Send for a specimen and you will certainly subscribe for your wife.

**FARM AND FIRESIDE**, Springfield, O., continues to be a welcome visitor to thousands of farms and firesides and loses nothing by age. 50 cents a year with valuable premiums to clubs.

**THE MARYLAND FARMER**, published by Ezra Whitman, Baltimore, Md., at \$1.00 per year is worth five times its cost to any farmer. Try it.



THE HOME CIRCLE, 1420 Chestnut Street, Philadelphia is a Religious Journal, well worthy of a place in every household. Filled with choice matter by the best writers, every one can find something to suit his taste. The juvenile department is an especially important feature, containing literature that is calculated to make the youth of our land better as well as wiser. \$1.50 per year. Address as above.

Send six cents to New York Weekly, New York and ask for a copy containing story by "Smilax."

Send a postal card to L. Lum Smith, Box 10,442 A, Philadelphia, Pa., for copy of Oriental Casket.

PRENTISS GRAPE. We call attention to the advertisement of Grape Vines of T. S. Hubbard, in this issue. The PRENTISS GRAPE which he advertises is a new white grape attracting much attention and said to be very promising. Mr. Hubbard is perfectly reliable and furnishes first class stock.

#### TO ADVERTISERS.

If you have any doubts about the unusual value of SEED-TIME AND HARVEST as an advertising medium, please note the following extracts taken at random from voluntary letters which we have recently received:

A MAN CONVINCED AGAINST HIS WILL, WHO IS  
NOT OF THE SAME OPINION.

"To demonstrate the uselessness of using such a medium as your (very creditable) paper, SEED-TIME AND HARVEST, to advertise my business, I enclose copy to occupy one inch in January. I believe in giving the D---his due and if I can get a dollar's return from the advertisement I will give you due credit.  
Very truly, Geo. S. Wales.

Rochester, N. Y., November 19, 1881.

"Enclosed find \$2.50 in payment of your bill. NUMEROUS APPLICATIONS mention SEED-TIME AND HARVEST. You may now give the enclosed advertisement one insertion. Very Truly, G. S. Wales.

Rochester, N. Y., February 25, 1882.

"SEED-TIME AND HARVEST is one of the most valuable advertising mediums we have used this season. a large number of applications mentioning it."

Potts Bros., Parkesburg, Pa., March 8, 1882.

"We have had numerous inquiries stating that they have noticed our advertisement in SEED-TIME AND HARVEST. Give us another insertion in the April issue." Wilson Bros., Easton, Pa., March 3, 1882.

"I am well pleased with SEED-TIME AND HARVEST as an advertising medium. I would like an estimate on my advertisement for one year." J. G. Burrow, Fishkill, N. Y., February 24, 1882.

"I am well satisfied with my advertisement in SEED-TIME AND HARVEST. I am receiving a great many letters referring to it. I will keep my advertisement in for one year and perhaps for two years. I am receiving letters from all parts of the world and must say that SEED-TIME AND HARVEST is the best advertising medium that I have ever yet tried." S. O. Hawkins, Bucks, Ohio, March 8, 1882.

"We are much pleased with the results of our advertisement in the last issue of SEED-TIME AND HARVEST, and enclose an advertisement for your April number." The Farmer Co., Publishers Practical Farmer, Philadelphia, Pa., March 8, 1882.

"SEED-TIME AND HARVEST pays us well for advertising." G. H. & J. H. Hale, South Glastonbury, Conn.

#### Advertisements.

No advertisements are inserted in our columns unless we have reason to believe the advertisers trustworthy, reliable parties, whom we would ourselves send orders to if we wanted the articles they offer. Our advertisers and subscribers generally un-

derstand this, so when writing to any of them it will be an advantage to yourself and all concerned if you will mention SEED-TIME AND HARVEST.

## BEES FOR SALE!

For want of room I will sell about

### Forty Swarms of Bees,

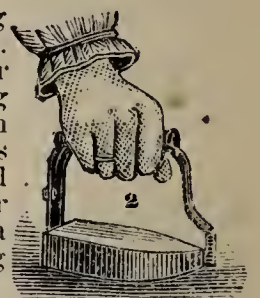
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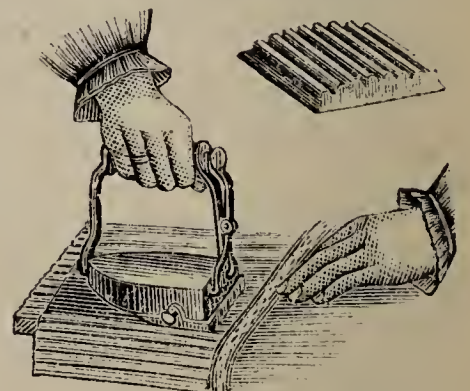


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<b>Cucumber.</b>			
Tailby's Hybrid, New.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	—
<b>Chicory.</b>			
Large Rooted.....	05	10	1.25
<b>Cress.</b>			
Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	—
<b>Egg Plant.</b>			
Long Purple.....	10	50	—
Improved N. Y. Purple.....	10	60	—
Very Early Dwarf Purple....	10	50	—
Striped Gaudalupe.....	10	60	—
Long White China.....	10	60	—
Above Varieties Mixed.....	10	60	—
<b>Kohl Rabi.</b>			
Large Purple.....	10	35	—
Early White Vienna.....	10	35	—
Above Varieties Mixed.....	10	35	—
<b>Lettuce.</b>			
Black Seeded Simpson, New,..	10	60	—
Hanson.....	05	30	—
Victoria.....	05	30	—
Early Curled Simpson.....	05	30	—



## SEED-TIME AND HARVEST.

Lettuce, Continued.				Pkt.	Oz.	Lb.	Tobacco.				Pkt.	Oz.	Lb.																																																																										
True Boston Market	05	40		10	50		Connecticut Seed Leaf	10	30																																																																														
White Seeded Tennisball	05	30		10	30		Kentucky Broad Leaf	10	30																																																																														
Black Seeded Tennisball	05	30					<b>Turnip.</b>																																																																																
Drumhead, or Malta	05	30					New White Egg	05	10	1.25																																																																													
Above Varieties Mixed	05	30					Early White Dutch	05	10	.80																																																																													
<b>Leek.</b>							Purple Top Strap Leaf	05	10	.80																																																																													
Large Scotch Flag	05	30					Long White Cow Horn	05	10	.80																																																																													
<b>Musk Melon.</b>							Yellow Aberdeen	05	10	.80																																																																													
Nutmeg	05	10	1.25				Yellow Globe	05	10	.80																																																																													
Skillman's Netted	05	10	1.25				Golden Ball	05	10	.80																																																																													
Improved Yellow Cantaloupe	05	10	1.25				Above Varieties Mixed	05	10	.80																																																																													
Green Citron	05	10	1.25				<b>Rutabaga, or Swede Turnip.</b>																																																																																
Pine Apple	05	10	1.25				White French, or Sw't German	05	10	.80																																																																													
Jenny Lind	05	10	1.25				Skirving's Purple Top Yellow	05	10	.80																																																																													
Surprise, New	05	20					Brill's American Yellow	05	15	1.50																																																																													
Bay View, New	05	30					Shamrock Swede, Yellow	05	10	.80																																																																													
Above Varieties Mixed	05	10					Above Varieties Mixed	05	10	.80																																																																													
<b>Water Melon.</b>							<b>Tomato.</b>																																																																																
Cuban Queen, New	10	25	4.00				Essex Hybrid, New	10	.30	.60																																																																													
Phinney's Early	05	10	1.25				Ford's Alpha, New	10	.30	.60																																																																													
Striped Gipse	05	10	1.25				Acme	05	.20	.40																																																																													
Ice Cream	05	10	1.25				Red Chief, New	05	.25	.50																																																																													
Mountain Sweet	05	10	1.25				Red Currant	05	.25	.50																																																																													
Ferry's Peerless	05	10	1.25				Paragon	05	.25	.50																																																																													
Citron. (for preserving)	05	10	1.25				Canada Victor	05	.15	.30																																																																													
Above Varieties Mixed	05	10					Conqueror	05	.15	.30																																																																													
<b>Mustard.</b>							Hathaway's Excelsior	05	.15	.30																																																																													
White French	05	05	60				Trophy	05	.15	.30																																																																													
Black American	05	05	60				Arlington	05	.15	.30																																																																													
<b>Onion.</b>							Green Gage	05	.15	.30																																																																													
Southport Red Globe, fine	10	25	4.00				Golden Rural, New	05	.20	.40																																																																													
Extra Early Flat Red	10	53	5.00				Saint Paul, (New)	10	.30	.60																																																																													
Early Red Globe	10	35	5.00				Above Varieties Mixed	05	.20	.40																																																																													
Yellow Danvers	10	25	4.00				<b>Herb Seeds.</b>																																																																																
Red Wethersfield	10	30	4.50				Coriander	05	.20		Dill	05	.25																																																																										
Large Yellow Dutch	10	25	4.00				Horehound	10	50		Sage	05	20																																																																										
White Globe	10	50	—				Summer Savory	10	30		Saffron	05	25																																																																										
White Portugal	10	25	4.00				Sweet Marjoram	10	40		Lavender	10	30																																																																										
New Queen	10	35	5.00				Caraway	05	15		Sweet Basil	10	40																																																																										
White Italian Tripoli	10	25	4.00				Sweet Fennel	05	20		Thyme	10	50																																																																										
Giant Rocca	10	25	4.00				<b>Potatoes.</b>																																																																																
<b>Parsnip.</b>							Although the potato crop, generally, was nearly a failure in this section this season, most of our improved varieties yielded good returns, and we offer a stock fully up to the average in quality. At the following prices pounds will be sent post paid by mail, and larger quantities by express or freight with no extra charge for packing. Orders will be booked as received and filled soon as the weather will permit.																																																																																
Hollow Crowned	05	10	.85				<table border="1"> <thead> <tr> <th></th> <th>Lb.</th> <th>Peck.</th> <th>Bush.</th> <th>Bbl.</th> </tr> </thead> <tbody> <tr> <td>Wall's Orange</td> <td>\$4.00</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cook's Superb</td> <td>1.00</td> <td>2.50</td> <td></td> <td></td> </tr> <tr> <td>Luxury</td> <td>.75</td> <td>3.00</td> <td></td> <td></td> </tr> <tr> <td>Defiance</td> <td>.50</td> <td>2.00</td> <td>6.00</td> <td></td> </tr> <tr> <td>Manson's Seedling</td> <td>.50</td> <td>1.25</td> <td>4.00</td> <td>10.00</td> </tr> <tr> <td>Magnum Bonum</td> <td>.50</td> <td>1.25</td> <td>4.00</td> <td>10.00</td> </tr> <tr> <td>The "Belle"</td> <td>.50</td> <td>1.25</td> <td>4.00</td> <td>10.00</td> </tr> <tr> <td>White Elephant</td> <td>.50</td> <td>1.25</td> <td>4.00</td> <td>10.00</td> </tr> <tr> <td>La Plume Triumph</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> <tr> <td>Beauty of Hebron</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> <tr> <td>Late B. of Hebron</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> <tr> <td>Early Ohio</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> <tr> <td>Late Ohio</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> <tr> <td>Burbank</td> <td>.50</td> <td>.75</td> <td>2.00</td> <td>5.00</td> </tr> </tbody> </table>							Lb.	Peck.	Bush.	Bbl.	Wall's Orange	\$4.00				Cook's Superb	1.00	2.50			Luxury	.75	3.00			Defiance	.50	2.00	6.00		Manson's Seedling	.50	1.25	4.00	10.00	Magnum Bonum	.50	1.25	4.00	10.00	The "Belle"	.50	1.25	4.00	10.00	White Elephant	.50	1.25	4.00	10.00	La Plume Triumph	.50	.75	2.00	5.00	Beauty of Hebron	.50	.75	2.00	5.00	Late B. of Hebron	.50	.75	2.00	5.00	Early Ohio	.50	.75	2.00	5.00	Late Ohio	.50	.75	2.00	5.00	Burbank	.50	.75	2.00	5.00
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Smooth Dutch	05	10	.85																																																																																				
<b>Parsley.</b>																																																																																							
Extra Fine Curled	05	15	2.00																																																																																				
<b>Pepper.</b>																																																																																							
Sweet Bell or Bull Nose	10	25	4.00																																																																																				
Large Sweet Mountain	10	25	4.00																																																																																				
Red Cayenne	10	25	4.00																																																																																				
Spanish Monstrous (New)	10	40																																																																																					
<b>Pumpkin.</b>																																																																																							
Large Cheese	05	10	.85																																																																																				
Sugar. (Fine for pies)	05	20																																																																																					
Connecticut Field	05	05	.45																																																																																				
<b>Radishes.</b>																																																																																							
Early Scarlet Turnip	05	10	1.25																																																																																				
Early White Turnip	05	10	1.25																																																																																				
Long Scarlet Short-Top	05	10	1.25																																																																																				
Early Scarlet Olive	05	10	1.25																																																																																				
French Breakfast	05	10	1.25																																																																																				
China Rose Winter	05	10	1.25																																																																																				
Black Spanish Winter	05	10	1.25																																																																																				
California Mammoth White	05	15	2.00																																																																																				
Grey Summer Turnip	05	10	1.50																																																																																				
Golden Yellow Summer (New)	05	10	1.50																																																																																				
Above Varieties Mixed	05	10	1.25																																																																																				
<b>Salsify, or Vegetable Oyster.</b>																																																																																							
White French	05	20	3.00																																																																																				
<b>Spinach.</b>																																																																																							
Round Leaved	05	05	0.50																																																																																				
Monstrous Viroflay	05	10	1.00																																																																																				
<b>Squash.</b>																																																																																							
Low's Essex Hybrid, New	10	15	2.50																																																																																				
Early White Bush	05	10	1.00																																																																																				
Summer Crookneck	05	10	1.00																																																																																				
Hubbard	05	10	1.25																																																																																				
Marblehead	05	10	1.25																																																																																				
Butman (New)	05	10	1.25																																																																																				
Mammoth	10	30																																																																																					

## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New, being imported by us directly from the largest floral establishment in France. We have no doubt that they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

**EXPLANATION.**—To save space in giving descriptions here, we have adopted the following plan to explain the habits and duration of the plant, viz:—



# SEED-TIME AND HARVEST.

a.—annual. b.—biennial. c.—climber. e.—everlasting or straw-flower. p.—perennial. m.—finest mixed colors. o.—perennial, but generally blooms the first year.

Abronia umbellata, rosy lilac, a.	.05
Acroclinium album, white, a. e.	.05
roseum, rose, a. e.	.05
Adonis vernalis, scarlet, a.	.05
autumnalis, crimson, a.	.05
Ageratum Mexicanum, blue, a.	.05
Wenlandii, compactum, white, a.	.10
Agrostemma viscaria, cæli rosa p.	.05
alba, white, p.	.05
atro-sanguinea, crimson, p.	.05
Alyssum maritimum, sweet, white, a.	.05
Amaranthus caudatus, crimson, a.	.05
melancholicus ruber, d'k crimson.	.05
salicifolius, scarlet and purple, a.	.10
Ammobium alatum, (Immortelle,) white, e.	.05
Anemone coronariam, p.	.10
Antirrhinum majus, a. 9 colors mixed	.05
dwarf, a. 10 colors mixed,	.05
Aquilegia hortensis, double, m. p.	.05
chrysantha, new golden-spurred.	.10
finest varieties mixed	.5
Aster, pæony-flowered, extra fine, m. a.	.10
half-dwarf pyramidal bouquet, m. a.	.10
crown, or cocardeau, m. a.	.10
quilled German m a	.10
fine mixture of the above	.05
Balsam camellia-flowered double m a.	.10
dwarf double m a	.10
double fine mixed varieties m a.	.05
Cacalia, (Tassel Flower) scarlet and yellow a.	.05
Calandrina grandiflora elegans, rosy pink a.	.05
Calceolaria scabiosæ-folia, new, p	.10
Callirhoe pedata nana, purple crimson, a.	.05
Campanula trachelium, double, b.	.10
nobilis alba b.	.10
medium, (Canterbury bells,) double	.05
Candytuft, rocket selected, m, a.	.05
Candytuft fragrant m. a.	.05
hybrid dwarf, m, a.	.05
Canna Indica, 5 colors mixed, a.	.05
Carnation, double picotee, m. a.	.15
early dwarf m. a.	.10
Celosia cristata, —cockscomb— 6 colors mixed	.10
variegata new, m a	.10
crimson, gold and fire-feathered, m a.	.10
Centaurea Babylonica, new p.	.10
cyanus minor m p,	.05
Centranthus macrosiphon m a	.05
Chrysanthemum carinatum, m a.	.05
double white new	.05
Indicum grandiflorum, m p	.10
Clarkia pulchella m a	.10
elegans, new double, pure white	.5
Cobœa scandens, purple c p	.10
Coix lachrymæ, Job's Tears,	.05
Colutea floribunda	.05
Collinsia multicolor marmorata, a m	.05
Convolvulus minor, m a	.05
major, Morning-glory, m a	.05
Coreopsis tinctoria m a.	.05
Cucurbita, Ornamental gourds, m a	.05
Datura fatuosa, double purple a	.05
white a	.05
Wrightii, new double, a	.05
Delphinium (Larkspur.) dwarf double, m a.	.05
tall German rocket	.05
dwarf branching double,	.05
Dianthus dentosus hybridus, m a b	.10
sinensis double m a b	.10
barbatus, [Sweet William,] p m	.05
Digitalis gloxinoides, spotted, white & crimson	.05
Eschscholtzia Californica, yellow a	.05
teunifolia, new a	.05
Eutoca Wrangeliana, low blue annual	.05
Geranium, zonale and inquinans mixed, a p	.15
Gilia tricolor, blue, white and lilac m a	.05
Globe Amaranth 6 colors m e a	.05
Godetia, Lady Albemarle, new large crimson a	.10
roseo albo Tom Thumb a	.05

Helichrysum lucidum m a e	.05
dwarf m a e	.05
monstruosum double m a e	.05
Helianthus globosus fistulosus a	.05
Californicus, double a,	.05
Hollyhock Chinese double a	.10
Honeysuckle, Hedysarum coronarium m a	.05
Ipomœa Quamoclit, Cypress vine m a	.05
Jacobœa, Senecio elegans double m a	.05
dwarf double m a	.05
Lantana hybrid m	.05
Linaria bipartita flora albo a	.05
purpurea, snapdragon a	.05
Linum grandiflorum roseum a	.05
Lobelia Erinus grandiflora superba	.05
Lupins, Dunnettii superbus, new a	.05
tricolor elegans new a	.05
polyphyllus mixed p	.05
Lychnis chalcædonica, white and scarlet m p	.05
Haageana hybrida new p	.10
Marvel of Peru hybrid, Four o'clock, m a	.05
mirabilis jalapa a	.05
Marigold African double m a	.05
French m a	.05
Mignonette, Reseda odorata, sweet-scented a	.05
large-flowering a	.05
Mesembrianthemum, Ice plant, a	.05
Mimulus cupreus hybridus extra a	.10
Nemophila insignis, blue with white center a	.05
discordalis, black—white margin	.05
elegans —very brilliant— a	.05
maculata white and purple a	.05
Nigella Damascena, Love in a mist, a.	.05
Hispanica a	.05
Oenothera Drummondii, Evening Primrose a.	.05
macrocarpa	.05
acaulis	.10
Pansy large flowering, very fine mixed, a p	.10
King of the Blacks.	.15
Pure White.	.15
Peas sweet	15 cts. per oz
Petunia hybrid, very fine mixed colors a p	.05
double striped	.25
Phlox Drummondii splendid mixed colors a	.05
perennial	.05
Portulaca grandiflora m a	.05
double extra m a	.05
Primula Japonica, new Japanese primrose a b	.05
elatior, cowslip m a b	.05
Rodanthe Manglesii, everlasting m a	.05
maculata m a	.05
Ricinus sanguineus, castor oil bean a	.05
major, largest variety a	.05
Salpiglossis hybrid blue and scarlet m a	.05
Salvia c. cœnea a p	.05
Scabious major, mourning bride m a	.05
minor, dwarf double m a	.05
Silene Armeria, Lobel's catchfly m a	.05
pendula double rose a	.10
Schizanthus papilionaceus m a	.05
Stocks Brompton m b	.10
German ten weeks m a	.10
Parisian m a	.10
Tagetes lucida m a	.05
signata pumilla a	.05
Tropæolum Lobbianum, spit-fire a	.05
Tropæolum majus, Tall Nasturtium, a	.05
Verbena hybrid, extra choice mixed a	.10
Virginian stock m a	.05
Wallflower double m a	.15
pure bright yellow, new	.10
Xanthemum annum-imperial double e	.10
mixed varieties a e	.05
Zinnia elegans double m a	.05
dwarf m a	.05

## ORNAMENTAL GRASSES.

Agrostis Pulchella.	.05
Briza Maxima.	.05
Glycerium, or Pampas Grass	.05
Stipa Pennata or Feather Grass	.05
Striped Leaved Japanese Maize.	.05



# SEED-TIME AND HARVEST.

## Miscellaneous Seeds, &c.

The following articles, although omitted from our general price-list, are kept in stock and will be supplied at prices given:

Collection of Flower Seeds, 10 pkts., our selection.	25.
Do. Your selection, 10 pkts. from our list.	50.
"Wild Garden" Flower Seeds, consisting of over 300 choice varieties of popular annuals and biennials finely mixed, per packet.	10 cts.
Strawberry Seeds, saved from Sharpless and Crescent, packet.	10
Potato Seed from select varieties, per pkt.	10
Golden Grains Wheat, 2 oz. pkt. 25 cts.; per lb.	\$1 50
Mammoth Russian Sunflower, pkt. 05, oz. 10, lb.	80
German Millet, per oz. 5 cts., lb. 50 cts.; bushel on application.	
Pearl Millet, per pkt. 5; oz. 10; lb.	80
Early Amber Sugar Cane.	5; 60
Evergreen Broom Corn.	5 60
Livingston's Perfection Tomato, pkt. 5; 1/2 oz 30 oz	60
Cocoanut Squash, pkt.	5 oz. 35
Matthews' Garden Seed-Drill.	\$12.00.
Ruhman's Hand Cultivator	5.50

## Other New Potatoes.

In addition to the varieties named on page 20 we can supply a limited quantity of the following at prices given:

	<i>Lb.</i>	<i>Peck.</i>
Matchless.....	50	
White Star.....	50	
White Whipple.....	50	
Clark's No. 1.....	50	
Scotch Champion, Imported....	50	
Pride of America.....	50	0.75
Mammoth Pearl.....	50	0.75
Extra Early Vermont.....	50	0.75

### SPECIAL OFFER ON POTATOES.

To give all a chance to try the new varieties we will send by mail, postpaid, Three pounds of any one variety, or One pound each of any three varieties in this or in the list on page 20, for One Dollar, excepting only Wall's Orange, on which there is no discount. To those who order them sent by express at their own expense we will send one pound each of five or more varieties, each correctly labeled, your own selection from either list, (excepting only Wall's Orange) at 20 cents per pound. No order will be filled under this offer unless it amounts to \$1.00 or over.

### WALL'S ORANGE POTATO.

We did not at first intend to offer this variety until next season, but as it has been suggested that there may be some who would prefer to pay a dollar for even a quarter of a pound this spring than to wait a year and then pay a dollar a pound for it, we have decided to send to those who desire, in quantities of 1/4, 1/2 and 1 pound to one address, at \$4.00 per pound.

### Freight Rates on Potatoes.

The following are the usual rates from La Plume to the places mentioned per 100 pounds.

	<i>Cts.</i>	<i>Cts.</i>
New York.....	33	Philadelphia..... 35
Cincinnati.....	34	Cleveland..... 28
Chicago.....	35	Denver, Col..... 3 61
Fort Wayne, Ind.....	32	St. Louis..... 45
Indianapolis.....	35	Kansas City, Mo. ... 74
Louisville, Ky.....	42	Knoxville, Tenn... 1 14
Nashville, Tenn.....	67	Mobile Ala..... 85
Rochester, N. Y.....	31	Buffalo, N. Y..... 31

No package will be billed at less than 100 pounds and the minimum charge is 50 cts.

### Express Rates.

These are also based on 100 pounds. Less than 5 lbs. are charged as 1/4 of a hundred. From 5 to 15 lbs., about 1/2; from 25 to 40 lbs.

about 1/3; from 55 to 60, about 1/4; from 60 to 70, about nine tenths; and over 70 lbs. are charged as 100 lbs. Rates per 100 pounds to places named are about as follows:

New York.....	\$1 10	Philadelphia.....	\$1 20
Boston.....	2 00	Washington....	2 00
Baltimore.....	1 75	Pittsburgh.....	2 25
Cincinnati.....	2 75	Cleveland.....	2 75
Chicago.....	3 25	Denver.....	10 75
Fort Wayne.....	3 00	Gettysburg, Pa..	2 25
Harrisburg.....	1 50	Williamsport, "	1 25
Indianapolis.....	2 25	Kansas City.....	5 75
Knoxville....	5 25	Louisville.....	3 25
Nashville.....	4 75	Mobile.....	6 50
Raleigh, N. C.,...	4 25	Atlanta.....	5 25
St. Louis.....	3 75	New Orleans....	7 50

### One More Special Offer.

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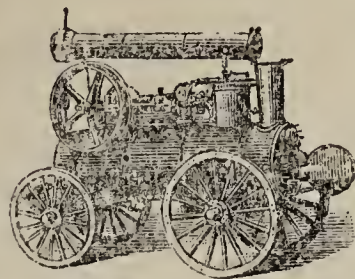


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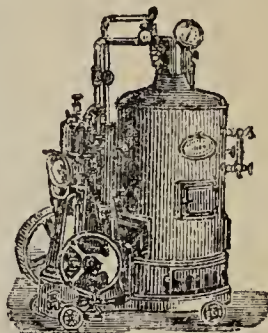
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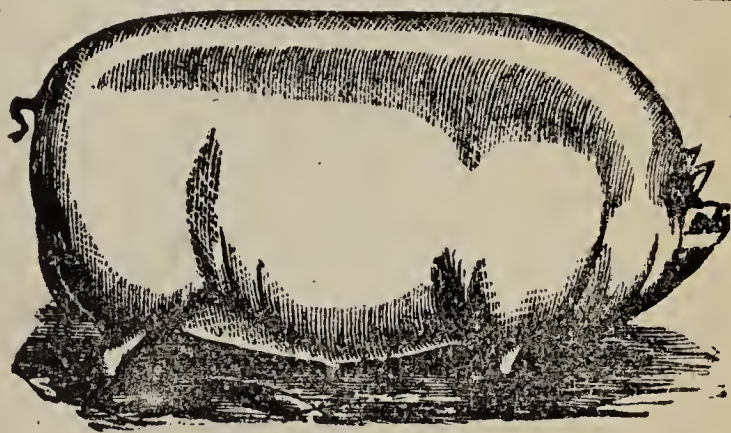
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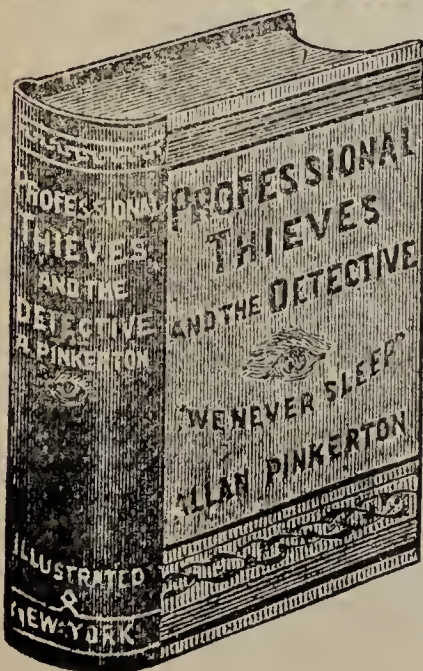
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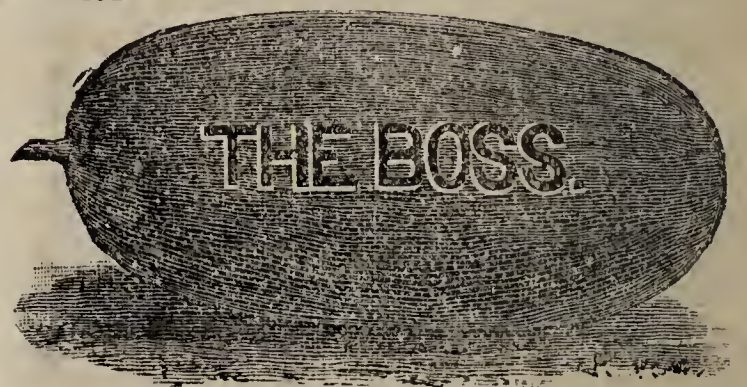
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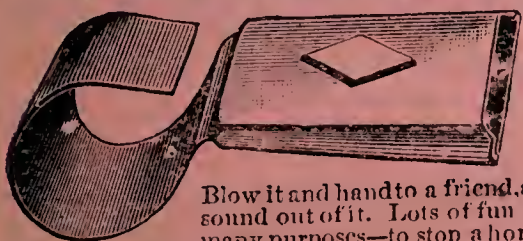
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Number 11.

Seed-Time and Harvest.



JULY, 1882.



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1848

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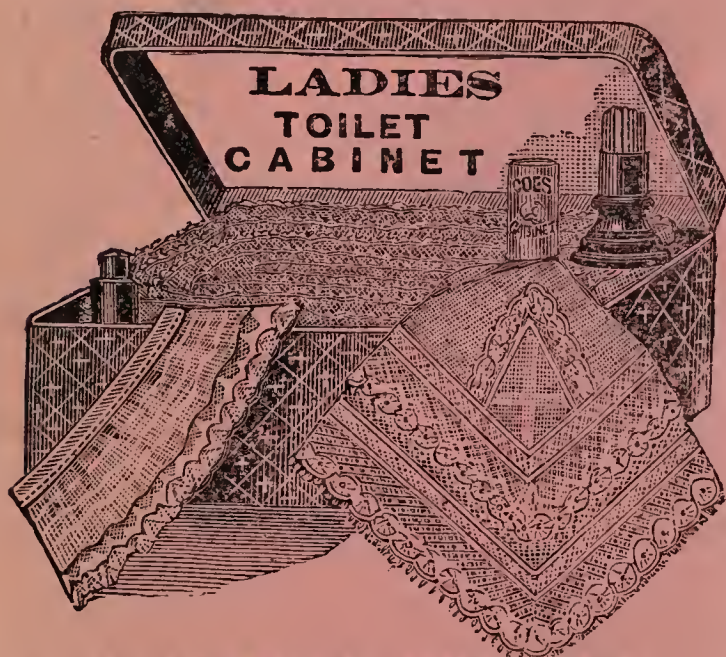
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We recently purchased at Sheriff's Sale, the entire stock of a dealer in imported laces, at less than one-fourth the cost of importation, which we have made up into handkerchiefs, Ruchings, Collars, etc., and have in stock 5,000 cabinets as shown in above cut. Each cabinet contains **ONE LACE HANDKERCHIEF, Four Yards Ruching, lace finish, One "Coes" Hairpin Cabinet with fifty assorted hair-pins, best quality, One Bottle of the Celebrated Grand Duchess Cologne with spray attachment, One Boot-Buttoner, One Glove-Buttoner, One Key-ring, one Case containing four full papers of long-eyed needles of the best quality, and twenty darners bodkins, motto needles, &c., &c., of different kinds. ALL FOR SIXTY CENTS, and six cents extra to help pay postage and packing.** We have a handsome lace collar to send in place of the ruching if any one should prefer it. Our object in sacrificing these goods to the public is for the purpose of introducing the **GRAND DUCHESS COLOGNE.** The finest perfumery in the World. We are satisfied that every purchaser of this perfumery will be our permanent customer. **REMEMBER** we have only **5,000** of these Cabinets, and reserve the right to refund the money after they are sold. "First come, first served." Our illustrated catalogue of Laces, Notions, Fancy Goods and Jewelry, sent free upon application. Send postage stamps or specie.

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**NO BENZINE**  
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**LUCAS'**  
**MIXED**  
**PAINTS,**

HENCE NO SICKNESS TO  
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**TRY THEM.**  
**ASK YOUR DEALER, OR**  
**WRITE TO US IF HE WON'T**  
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 Office, NEW YORK.

**JERSEY (ALDERNEY) CATTLE.**

I have some excellent Calves, full blood and high grades, and a few Aged Cows for sale, from the best animals at moderate prices.

H. EUGENE PARROT, Dayton, Ohio



**FOR THE LITTLE GIRLS**  
 NEW STYLE  
**DOLLS!**

Eight inches tall, with beautiful life-like features. Banged hair and dark eyes, or curls and blue eyes.

10 cents each, or two for 15 cents, which includes dresses with each doll. 1 doz. dolls and 12 different dresses for 75 cents. Mailed free.

Special Offer to the readers of this Paper. Every person sending 15 cents will receive 2 dolls with dresses and 50 page illus. Book Free

A lady in Tipton, Iowa, writes that she sold 25 the first afternoon. Postage stamps taken.

Hope Manufacturing Co., Providence, R. I.



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*Frank Jewell*

PHOTOGRAPHS.

Twelve years successful business in Scranton.

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**Courtright's Moon Boots, the best in the World.**

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If there is a place on the face of the earth,  
Where you can get of your money its worth,  
'Tis at Courtright's large and beautiful store,  
Where custom is gaining more and more.

Where the rich and the poor, the great and the small,  
Come to buy, for his boots and shoes suit all,  
Do you want a shoe not too loose nor to tight,  
But to fit exactly: Why buy of Courtright.

Go to Courtright's, and then you are sure  
Of getting the shoes that will endure.  
The store is open 'till late at night,  
When you are in Scranton, call on Courtright.

Do you want the finest and neatest shoe,  
Then Courtright's store is the place for you;  
He has Burt's and Reynold's nicest shoes.  
He has any kind or price you may choose.

Then do not go with damp, cold feet,  
Wading about the muddy street,  
Don't run your chance because shoes look fair,  
Thins often do that will not wear.

Merchants, mechanics, farmers and all,  
At this great store in large numbess do call;  
Those Moon Boots so cheap, I do declare,  
I will take for myself and my sons a pair.

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**CORNER OF LAGKAWANNA & WYOMING AV'E, SCRANTON, PA.**

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# HAVEN'T YOU FOUND IT SO?

It is a source of great satisfaction to many, wherever they deal, to find the proprietor "on hand," ever ready to assist the trade to wise selections; to frankly and courteously explain price and quality; to rectify any real or imaginary grievance, and to cheerfully extend such favor and information desired, as business custom dictates. Establishments conducted by proprietors residing away, never know nor see their patrons, and act through commissioned or high salaried "Managers." Such concerns we learn cannot yield the best satisfaction to the public; abounding as is claimed, in considerable laxity, lack of business courtesy and attention to details. The expense in such concerns must be larger, and to afford a living share to all the "bosses," it must come out of the goods. In all modesty we boast of resident proprietors attending to special details in which they excel, and these combined excellencies afford a result most gratifying to our customers and of course to ourselves.

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## SAMTERS,

SQUARE DEALING CLOTHIERS,

Scranton and Wilkes-barre.



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**CARPETS!**

**WINDOW SHADES,**

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Williams & McAnnulty,

125 and 127 Wyoming Avenue. Scranton, Pa.

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**WILLIAM BLUME,**

**BUGGIES, CARRIAGES, BUSINESS WAGONS,**

CONSTANTLY ON HAND or BUILT TO ORDER.

Painting and Repairing Done With Neatness and Dispatch

**SCRANTON, PA.**

HYDE PARK SIDE, LACKAWANNA AVENUE, NEAR THE STOVE WORKS.



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**M. NORTON,**

322 LACKAWANNA AVENUE,  
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**WALL PAPERS,**

BUILDING PAPER,

**WINDOW SHADES,**

FLOOR OIL CLOTH,

**BOOKS, STATIONERY,**

**TOYS and FANCY GOODS.**

Four Floors, 25 x 100, full of goods.

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**Sutto's Clothing House,**

326 Lackawanna Avenue,

Scranton,

Pa.

**Fine Clothing a Specialty.**

**SUTTO BROTHERS,**



# SEED-TIME AND HARVEST.

Published Quarterly.

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO. 11,

JULY,


1882.



Fresh Water Aquarium.



### Make Childhood Sweet.


 WAIT not till the little hands are at rest  
 Ere you fill them full of flowers;  
 Wait not for the crowning tuberose  
 To make sweet the last sad hours;  
 But while in the busy household band,  
 Your darlings still need your guiding hand,  
 Oh ! fill their lives with sweetness !

Wait not till the little hearts are still  
 For the loving look and phrase;  
 But while you gently chide a fault,  
 The good deed kindly praise.  
 The words you would speak beside the bier,  
 Fall sweeter far on the living ear—  
 Oh ! fill young lives with sweetness !

Ah ! what are kisses on clay-cold lips,  
 To the rosy mouth we press,  
 When our wee ones fly to our mother's arms,  
 For love's tenderest caress ?  
 Let never a wordly bauble keep  
 Your heart from the joy each day should reap,  
 Circling young lives with sweetness.

Give thanks each morn for the sturdy boys,  
 Give thanks for the fairy girls;  
 With a dower of wealth like this at home,  
 Would you rifle the earth for pearls ?  
 Wait not for death to gem love's crown,  
 But daily shower life's blessing down,  
 And fill young hearts with sweetness,

Remember the homes where the light has fled,  
 Where the rose has faded away,  
 And the love that glows in youthful hearts,  
 Oh ! cherish it while you may;  
 And make your home a garden of flowers,  
 Where joy shall bloom through childhood's hours.  
 And fill young lives with sweetness.

### How are New Varieties of Potatoes Produced ?

The above question is asked by "D. W.," Lee Co., Iowa, who follows it with: "Can you give the manner of fertilizing, the time to fertilize, and the time to plant the seed ball ? Many of the well-known varieties of potatoes have not been "produced" at all ; that is, not by any direct agency of the cultivator. We must in the first place state that the potato is not a *root*, but a short, thick under ground branch of the plant. We have several times seen, and no doubt many of our readers have also, the branches of the potato vine developed as potatoes above ground. We must start with the

idea, then, that the potato is really a branch or stem. It is a well established fact among fruit growers and florists, that a shoot or branch of a plant may produce very different fruits or flowers from the rest of the plant, and this occurs without any assignable cause, and without any human agency. These cases, by horticulturists called "sports," are very numerous. A late peach has been known to produce a branch on which all the fruit was early. Other peach trees have formed branches which bore only nectarines—merely a sport of the peach. Certain branches on yellow plum trees have produced red plums, and shoots on purple grape-vines have borne white grapes. In flowers, especially roses, these varieties are very numerous. We only cite these cases to show what may take place, indeed, has taken place, in the potato. The tuber being really a branch, it may, like a branch of the peach, plum, or grape, vary. A notable example of this is the "Late Rose." In a field of "Early Rose," a single plant was found to be green and still growing long after the vines in the rest of the field were dead and ready for the harvest. The owner had the good sense to save and perpetuate the product of this vine, and now, as the "Late Rose," it is one of our valuable kinds. Other varieties have been produced in a similar manner. We cannot cause this variation to take place, but as it may occur anywhere, the careful cultivator should take note of any marked differences in the vines that may appear in his potato field.

As to raising new varieties from seed, we doubt if much actual cross fertilization has ever been done. To refer to fruits again—the seeds of the apples or the peaches from any one tree, taken as they are, without any attempt at fertilization, will give a great variety of seedlings, and we know it to be the same with potatoes. That greatest of all modern potatoes—greatest in itself and in varieties it has given rise to—the "Early Rose" came from a chance seed ball, of the coarse but prolific "Garnet Chili." A grower had picked this seed ball from his patch without selection, and pinned it against his window to ripen, and finally gave it to Mr. Breese—of blessed



potato memory—who sowed the seeds. From the seeds in this chance ball, picked without any selection, came “Early Rose,” “Breese’s Prolific,” and several others, all of excellent quality, but all very different, some being white, others red; some long, others round, some early and some late; indeed from that one, and now famous seed ball, were raised potatoes different among themselves as much as potatoes can differ. In view of the results from this single seed ball, we doubt many of the stories of direct crossing. Still, if one wishes to experiment in this, the flower of the potato affords an easy subject, as the anthers do not shed their pollen early, and if removed as soon as the flower opens, the pollen from another flower can be readily applied to the pistil. As to raising potatoes from the seed, the balls are kept until the time for sowing, when the seeds are removed and treated precisely as tomato seeds. They are started in boxes in the green house, the hot-bed, or in the kitchen window, (Mr. Breese followed the last named method) and the plants treated exactly like tomato plants, save that they may be set in the open ground somewhat earlier. Mr. Breese informed us that the original plant of “Early Rose” gave him several good sized tubers the first year, and stated that in his experience, if a seedling potato did not do this the first season, it was not worth while to continue to grow it.

### Culture of Celery.

Celery needs rich, friable, deep soil, and much moisture. It is very impatient of any check. The best of treatment will not restore plants that have been once stunted to a condition of free, tender growth until much time has been lost, and the season probably passed. It grows very slowly at first, and does not endure transplanting well when large. So, as it must have the whole season in order to attain large size—growing best when the air is rather cool and humid—it is customary to sow the seed in a small bed or frame in May, to set the plants out, four inches apart, as soon as they can be handled, and then lifting them

to their final rows, where they must be much further apart, in ground that has been well manured for some such early crop as potatoes, onions or peas. The hot weather which ripens these also stops the growth of the celery. During this partial rest—in July—the celery plants can be lifted each with a good ball, or else carried with the roots in water or otherwise moist; and then if set neatly and rapidly, and watered freely, they will grow on without drooping, and the barbarous practice of covering them completely dark with boards need not be resorted to. If there are slugs in the soil, set bran to attract them to their death, or keep the surface rough and dusty, impassable to them by frequent strewing of sifted dry coal ashes or charred rubbish.

In growing the large sorts there is much advantage in setting them in compact rows—generally a double row, plants six inches apart—in the bottom of a narrow trench. Here they have cooler and moister air through August, and when the stems are large enough to be earthed up in order to blanch them it is done with less earth and labor. But the soil must be deep and rich, for it is absolutely necessary that the roots have prime soil to extend into. Fine friable soil or sifted ashes is necessary for the earthing up. It must only surround the stems, and not come in the way of the new leaves shooting up out of the central plumule. Little rings of tin, of two or three inches in diameter for medium sized sorts, are convenient to hold the stems erect; for they naturally incline to spread, and are apt to break if bent much. The rings guide them upward, and are easily slipped higher when earthing, saving time and trouble. The earthing should be deferred until a good growth has been made, yet it must be done while there is yet two or three weeks of September or October growth, as neither the leaves nor the stems whiten merely by being kept in the dark—warmth and growth are requisite for it. Celery stored in a dark cellar at a low temperature (just above freezing) will come out with the leaves of as fine a green as when put in, and stems equally unchanged. A grower on a large scale keeps his celery by leaving the middle of three



or five rows stand in place, ridged up. The rows on each side are dug about November 1st, and the plants set leaning against the ridge of the middle row, with tops down. The whole is covered with soil. Manure or straw is added before December, and boards may cover all.

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### Rye as Manure.

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The most earnest advocate of rye as a green manure that I ever met was Mr. Root, Rockford, Ill., who was a successful seed grower, and writer for the agricultural papers. He claimed to have discovered its virtues by accident. He wished one year to grow several acres of muskmelons for seed, and could get no land that suited him, except a piece on which a heavy crop was growing. He plowed it under, and the season proving to be dry, he was pleased to find that his land kept loose and produced a full crop, while on all the other land his crops were short. As long as he lived afterwards he practiced sowing rye on all land on which he could use it, and was invariably pleased with the result. I hope sometime to see the following experiment in green manuring so thoroughly tested as to establish what it would do for land. Plow under as heavy a growth of rye as possible in May. Then sow buckwheat and plow it under in July, or the first of August, and follow the buckwheat with sowed corn. These three crops would produce a large amount of vegetable matter, and would shade the soil completely while growing and I doubt not would be found exceedingly profitable. As it is impossible for the farmer to get enough animal manure to supply his wants, and commercial manures are expensive and often uncertain in their action, it would seem as though there is no field of experiment that promises so much as this. There are, without doubt countless fields which would not only produce more grain in three years, if one year was devoted to a green manuring such as is recommended, but they would also be permanently improved. To draw out and spread enough stable manure to cover a ten acre field, involves a large amount of hard, dirty work, even if you have the

manure on the farm, and vastly more if you must go some miles to the village for it. All the work in green manuring is clean and pleasant, and this is much in its favor. I am fully convinced from long experience in buying manure at fifty cents a load two miles from my farm, that I could have done much better to have depended on green manures, after using what manure I could have saved from my own stock. For a number of years I have depended on home resources for keeping up my farm, and have grown as good or better crops than when I bought manure, and at less expense, both of cash and muscle.—*Waldo F. Brown.*

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### Excellent Poultry Account.

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Whether upon the broad acres of the farmer, upon the lawn of the suburban resident, or the restricted limits of the village lot, around the homes of the industrious poor or the mansions of the rich, there is nothing that will afford as much real pleasure to its owner as a flock of pure bred fowls. Their beautiful plumage, distinct markings and even size at once win the admiration of the visitor, and to the fortunate owner they are a source of untold delight; and in many cases they will amply repay for both the time and money expended in providing suitable accommodations for their comfort and a proper supply of nutritious food. Yet, comparatively speaking, around very few of our rural homes are such fowls to be seen. Generally a mixed or mongrel race is found, and in most cases very little attention is given to this part of domestic economy.

During a series of years great care has been taken by me to keep an accurate debit and credit account with a given number of fowls, the result of which from year to year has been given to the *Rural* readers, solely for the practical information contained therein, and with the wish to benefit others, and particularly that class who have regarded their fowls as among the most troublesome and unprofitable of all their live stock. For five consecutive years these poultry accounts have been published



in the *Rural* and very widely copied by the press :

JAN. 1, 1880. IN ACCOUNT WITH 215 FOWLS.		DR.
To 215 fowls at 60 cents each.....	\$129 00	
82 bushels of corn, at 60 cents.....	49 20	
2 tons of cracked corn, at \$22.....	44 00	
2¼ tons of wheat middlings, at.....		
\$23.50.....	52 88	
220 pounds rough tallow, at 5 cents.....	11 00	
100 pounds scraps.....	3 50	
12 gallons kerosene oil, at 10 cents.....	1 20	
10 pounds sulphur, at 7 cents.....	70	
Red pepper.....	2 21	
Total cost.....		\$293 69
Dec. 31, 1880.		CR.
By 1, 054 10-12 dozen eggs.....	\$208 48	
73 fowls sold.....	53 20	
317 roosters and culls.....	100 28	
97 Plymouth Rock (selected).....	117 10	
201 stock on hand, at 60 cents.....	120 60	
136 bushels roost droppings, at 25 cents..	34 00	
Total proceeds.....		\$633 66
Deduct cost.....		293 69
Profit.....		\$339 97

RURALIST.

WALDEN, N. Y.

## Turnip Crop.

There is no crop that the farmer puts in the ground, that pays him better than the turnip. We are aware that with some persons it is looked upon as of little account; but it has never received the consideration to which it is really entitled; and those who *turn-up* their noses at it are not genuine farmers. It is a crop, moreover, that is put in at a time when the hurrying work of the season is over; when it occupies ground that already been used for something else. The cultivation also, say of from one to two acres of turnips, involves comparatively little labor. The crop, too, is harvested in November, when there is almost no other labor on the farm to interfere with it. As to the variety of seed to sow, we believe there is no turnip equal to the *Purple-Top*. A topdressing of *bone manure* is almost indispensable to an abundant crop. For an early crop take the Early Flat Dutch and sow broadcast, and now is the time. The Purple Top for the regular farm crop. This should be sowed in drills thirty inches apart, and when the turnips are the size of a hickory nut, thin out to eight or ten

inches apart in the row. They seldom fail in affording a satisfactory crop. The crop can be put in the first half of August. Where land is a little short, sow *among the corn* at the last working. They will not interfere in the least with that crop, generally, and very little when it is harvested. Be sure always to procure seed from established seed houses of reputation, and use that grown here instead of in Europe, if you wish the best and safest article.

## Thoroughbred Corn.

If you desire to secure a pedigree corn suited to your own soil, location and requirements pursue Dr. Sturtevant's method, which has proven so successful on his Framingham farm: Select the best corn procurable, of the type desired, and plant only the kernels from the shapely ears of high character—not the ear far larger than the type, nor smaller than the type, but of *large average* size of the type, and plant every kernel on the cob, the butts and the tips as well as the central kernels. Plant in hills, so that each plant can be readily accessible. Have the land in a fertile condition, neither poor nor over-rich. Then as soon as the tassels appear, and before the pollen is formed, pass through the field and remove every stalk which does not show a large appearance of earing, in order that each ear formed may be sure to receive pollen from a plant equally as fecund as itself. From these ears, the best and most perfect in all respects—ears which we know have come from prolific fathers as well as mothers—select the ears for the next year's planting, and thus continue. The good effect will be very perceptible the second year, will be very marked the third year, and the fourth year will become so firmly established as to be considered almost a race character. Dr. Sturtevant has practiced this for a series of years and has fully established a thoroughbred variety after his liking which is undoubtedly one of the most beautiful and productive in this country. We shall plant a bushel of this best selected stock this season, follow up the plan and offer our customers the cream of the product next spring.



### How to Destroy Insects.

Slugs are occasionally seen eating large holes or notches in the leaves of all succulents and begonias. They usually feed at night. Cut potatoes, turnips or some other fleshy vegetable in halves and place conveniently near the plants. The slugs will gather upon the vegetable, and are easily destroyed.

The white worm which infests, occasionally, all soils where plants are kept in pots, may be removed as follow: Sprinkle lime water over the soil, or sprinkle a little slacked lime on the earth and in the saucer of the pot. Lime water may be easily made by slacking a large piece of lime in a pail of cold water; letting this settle, and then bottling the clear water for use. Give each pot a tablespoonful twice a week.

To destroy the little bugs on the oleander take a piece of lime the size of a hen's egg and dissolve it in about two quarts of water. Wash the stock and branches with this water.

To destroy plant lice take three and a half ounces of quassia chips, add five drachms Staves-acre seed in powder; place in seven pints of water and boil down to five pints. When cold, the strained liquid is ready for use, either by means of a watering-pot or a syringe.

Hot alum water will destroy red and black ants, cockroaches, spiders and chintz-bugs. Take two pounds of alum and dissolve it in three or four quarts of boiling water, let it stand on the fire until the alum is all melted, then apply it with a brush (while nearly boiling hot) to every joint and crevice in your closets, beadstead, pantry-shelves, etc.—*American Florist and Farmer*.

### Mildew.

Mr. Edward Martin, West Freehold, N. J., has written us as follows concerning mildew, which often proves destructive to the gooseberry:

"I noticed the article on Gooseberries in the January number of *The Farm and Garden*.

The writer says there is no remedy for mildew. This is a mistake. I have grown the English varieties, both here and in Westchester County, N. Y., for twenty-five years, and have saved them by a very simple preventive without any expense except that of a garden syringe, which can be purchased for one dollar and a half. Immediately after the fruit begins to form I save the soap suds on wash days and syringe the bushes with the suds twice a week for three or four weeks. I have never known this plan to fail."

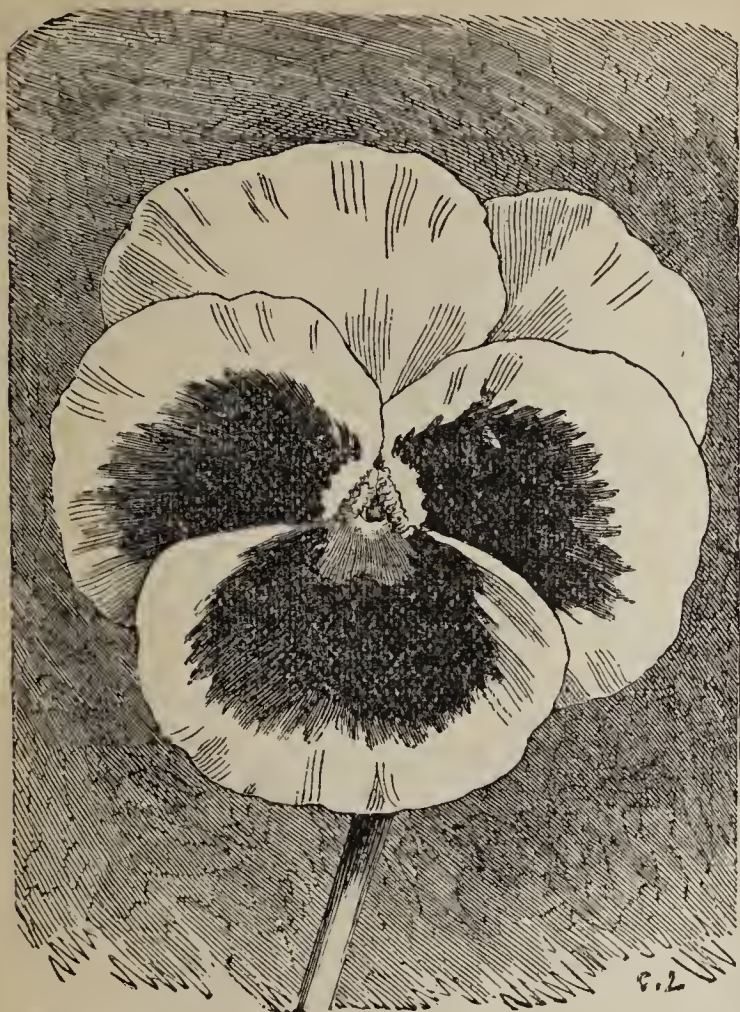
In his *Small Fruit Culturist*, which is the standard work on small fruit growing, Mr. A. S. Fuller mentions the use of soap suds, and several other preventives of mildew, but adds that while they are worth trying, "all of these remedies will often fail." He also suggests that as old bushes are more liable to be attacked by mildew than those which are growing rapidly, it will be well to keep a stock of young plants constantly on hand.—*Farm and Garden*.

*Editor Seed-Time and Harvest:*

Dear Sir: In looking over your Number Eight I find an extract expressing Mr. Hale's longing for water, and yet a little more water to grow his strawberries larger. I am aware that there are many other growers who entertain the same opinion, and I have no doubt that if some of them could possess a floating island they would try to grow them so large as to necessitate cutting them in order for the consumer to get outside of them. I think this idea an erroneous one as facts have proved. I have known them to be planted on bogs prepared the same as the Cranberry bogs, where the plants did get all the water their capacity would permit, and were in the same condition as Mr. H. was when he first sampled the Manchester at friend Battys, "As full as a tick." Now the average size of these berries was no larger than those grown on high land, and they were so weakened by their copious draughts of water that they would not bear transportation, and I have often seen the floor of the truck that carted them thoroughly wet by the water that ran from them which was as pure and free from color as before its absorption.

C. W. IDELL,  
333 Washington St., N. Y.





“Pray you, love, remember  
There’s pansies—that’s for thought.”

A handful of pansies,  
With love in their glances,  
And bright, merry faces, so honest and true—  
Sweet mystical token  
Of thoughts yet unspoken,  
And hopes that, in silence, are blooming for you.

So changefully tinted,  
Yet deeply imprinted,  
Is a look that’s half human on each tiny face;  
Some darker, some lighter,  
Some sadder, some brighter,  
Yet all are secure in their own modest grace.

Who ever supposes  
They envy the roses,  
Or blush to be caught in an everyday dress?  
Content to be pansies,  
They care not who fancies  
The gayest of beauties, the more, or the less.

So winsome, so pretty,  
So bright and so witty,  
They nod to the breezes each glad Summer day:  
You think by their glances,  
They’re making advances  
Towards winning your love, in the sincerest way.

But don’t be forgetting  
They’re used to coquetting  
With the birds, the bees, and the butterflies too:  
Yet look so demurely,  
You would not dream, surely,  
That all of the while they were laughing at you.

They know just what praise is  
In all of its phases,  
From whim of the moment to hearty good will;  
Yet are not presuming,  
But tell by their blooming  
How grateful they are for our love and our skill.

Then, whence came this sweetness—  
This winsome completeness—  
These merriest beauties of garden and bower?  
An angel low flitting  
For once, quite forgetting,  
Dropped a smile that sprang up and bloomed as a  
flower.

And now, gentle maiden,  
Ere life is o’erladen  
With shadow of sorrow, or blighting of care,  
Guard all wayward fancies,  
And like these bright pansies,  
Let none but true friends in your confidence share.

Then, thoughts that illumine  
The hearts of the human,  
Mark well, for their faces or words will betray;  
Nor heed love’s alluring,  
Save pure and enduring,  
That blooms yet the brighter as life glides away.

### Longfellow’s Finest Sonnet.

The New York EVENING POST considers the following Longfellow’s finest sonnet:

A S A FOND mother, when the day is o’er,  
Leads by the hand her little child to bed,  
Half willing, half reluctant to be led,  
And leaves his broken playthings on the  
floor,  
Still gazing at them through the open door,  
Nor wholly reassured and comforted  
By promises of others in their stead,  
Which, though more splendid, may not please him  
more;  
So Nature deals with us, and takes away  
Our playthings one by one, and by the hand  
Leads us to rest so gently that we go  
Scarce knowing if we wish to go or stay,  
Being too full of sleep to understand  
How far the unknown transcends the what we  
know.”

It pays to have a garden if you will take care of it. If you make a garden, it pays to enrich the ground liberally. Nothing from nothing is one of Nature’s by-laws, if not a part of the constitution of things. Stable manure is adequate for nearly all purposes, but good superphosphate is more convenient, and has the advantage for nearly all purposes, of being free from weeds.

“Mosaiculture” is what the Scotch folks term the planting of beds containing mottoes or devices set out with colored foliage plants. This is a new departure in the arrangement of extensive lawns and terraces.





## FLOWERS.

BY "SMILAX."

A popular author has said that "flowers were things of beauty which God had forgot to put the breath of life in." All who have watched the growing of the plants from the time when the seed is put in the ground to when the plant bursts out in all its variegated beauty will join with us in declaring that its author spoke truthfully. People who live in the country do not half appreciate flowers, God has given them so many beautiful wild flowers to look at that they do not care to cultivate other plants. If they could only visit the city and see a tired wan girl, who works in a close heated factory, where the incessant rattle of the looms is almost deafening for ten or twelve hours a day, bending over a little withered geranium in a cracked pot, if they could note the pleasure depicted on her countenance as she waters it and tenderly touches the leaves, they would think more of the value of a flower. If they could see an invalid watching with eagerness a plant given them by some friend or a laborer, whose only relief from a life of toil, are the pleasant hours spent with a few small plants in a 5x6 yard they would at once make the cultivation of flowers a part of their daily routine. Some may say "what is the use of cultivating flowers in the country, we have more than we want for our use." Very good: I will accept this as a reason and then tell you why you should cultivate flowers. In nearly all of the large cities at the present time there are societies for the

distribution of flowers to the sick and poor. If you do your part they will help you to give enjoyment to many a tired, sick and worn body. Cultivate flowers, no matter how simple, and send them to these ladies and they will distribute them to people who will breath a prayer to the Ruler of the Universe for a blessing on the doner. If you do not know how to reach these ladies write to the Editor of any daily newspaper in any city and they will soon make arrangements for the transportation of your plants to the homes of the people who need them.

Is this a very hard task for you who have many idle hours during the day? The pleasure of raising the flowers and the knowledge that they will lighten some heart, heavy with sorrow, make the dull weary eyes of some invalid sparkle and glisten with pleasure will more than repay you for the time and money you may expend on them. Try it now and then when the summer suns, make the heat in the city stifling in the close compact quarters of the poor your flowers will prove an oasis to those who cannot find time to visit the places where flowers are the rule and not the exception.

### Propagating Roses.

It is always very desirable with those who have a few choice roses to have some extra ones, either to give a friend or to enlarge the flower garden. To do this select ripen shoots, well branched near the ground (preferring those limbs that if cut off would make a nice bushy plant), and with a sharp knife hack or notch the under side so that when bent will come in contact with the soil. These notches should be five or six in number, through to the heart or pith. Now bend the limb down, and with the knife slit the limbs one and one-half inches up towards the end of the top, just below the notches, and be careful not to break the limb; cover two inches in the sandy soil and lay a brick or stone over it to keep it down. Keep the soil moist, and by Spring the roots will have formed often four and five inches long, when it can be safely removed. The most difficult roses root easily this way.



*Editorial Notes and Comments.*

We think that there is no other vegetable grown, the cultivation of which is so imperfectly understood by the masses as celery, and would be thankful if some of our friends who know how to handle it on a large scale successfully would give us their *modus operandi*, from sowing the seeds to preparing it for market. We will give an order for \$10.00 worth of seeds to the writer of the best paper upon this subject sent to us before November, and publish the same in SEED-TIME AND HARVEST so that all our readers may be benefited by it.

MR. JAMIN BRUNDAGE, of this county, has the finest young apple orchard that can be found in this section of country. It has been set eight years and is now larger and thriftier than many orchards at eighteen years. Few marks of borers can be seen around the trees, and Mr. Brundage gives as the main reason for this unusually thrifty condition the fact that he frequently washes the trunks of the trees with a wash made principally of common soft soap. From these observations we are inclined to think this practice worthy of wide imitation. We see it is also highly recommended by Professor A. J. Cook, of the Michigan Agricultural College.

IN THE SPRING OF 1877 we set one hundred Wild Goose Plum Trees. They have grown rapidly and luxuriantly. The first crop of fruit was produced last season and the curculios made very little impression on them. The fruit is of good size and beautiful in color, consequently it sells readily in market, but we think it very inferior in quality to many old standard varieties. For cooking or canning it is worthless. While the curculios are paying their attention to the Wild Geeses (shall we say Geese?) The finer varieties escape, so we think them worth something as protection.

IT SEEMS AS THOUGH among the score or more of new, early grapes which have recently been offered there must be at least one which is as hardy and productive as the Concord and sprightly and fine flavored as the Delaware. In our inland mountainous locality, with heavy clay soils, grapes naturally mature slowly and ripen late. As heavy frosts usually come by September 20th, it is useless for us to set any variety which ripens later than the Concord, so that earliness is much more of an object than in some sections a hundred miles further north than we are. In order to ascertain what does

really exist in the way of a good new early-grape we have this spring procured and set one or more vines each of the leading new varieties.

A WESTERN CORRESPONDENT of the Farm Journal writes to that paper about a breed of hogs in his vicinity which he calls Wind-Splitters. He says they are good to eat; they grow from three to ten feet long, weigh from twenty-five to one hundred pounds when full grown. They have a face about two feet long, about the shape of a barrel stave. They are of a white color, mature at five years, and are adapted to a country where acorns and roots grow and where hogs have to dig for their own drinking water! Like tadpoles and blackberry vines they probably "increase by propagation." Would our readers like some of this improved "stock?"

A CORRESPONDENT OF THE FRUIT RECORDER says that cotton soaked in turpentine and hung among the branches of plum trees just as the blossoms are falling and frequently renewed until the plums are half grown will effectually protect the fruit from the depredations of the curculio. If Gum Camphor or any of the essential oils, such as peppermint, pennyroyal, sassafras, &c, are dissolved in the turpentine it produces an odor so strong that it becomes intolerable to all insects.

SOME MODERN WRITERS are persistent in declaring that the old time method of trenching celery should be entirely done away with, and that surface setting gives better results. This may be true on the sea coast and in naturally moist positions but in our inland locality which is subject to long summer droughts and scorching winds we prefer setting the plants at least four inches below the surface. They will thus stand the dry weather better and the labor lost in trenching is regained in banking up the growing plants. It is of no use to be in too great a hurry about setting celery plants. They will not grow until the cool fall weather comes on anyhow, so July is early enough to set if you have good plants.

A PROMINENT fruit culturist in Scranton, Pa., uses the following as a remedy and prevention of pear blight: A pound of potash or concentrated lye, such as is used for making soap, is dissolved in twenty-five gallons of water and poured around the trees, a pailful at a time two or three times during the growing season. He claims it is thoroughly effective not only as a prevention but that it will check and stop the blight after it begins to show, the affected limbs of course being cut away.



## Seed-Time and Harvest.

**Published Quarterly**  
FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 25 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Conducted by ISAAC F. TILLINGHAST.

LA PLUME, LACK'A CO., PA., JULY, 1882.

Entered at the post-office as second class matter.

"In the morning sow thy seed; at eve  
Hold not thy hand, for thou knowest  
Not which shall prosper."

*The blue-eyed violets are astir.*

*And new born grasses creep,  
And young birds chirp; then sow betimes,  
And thou betimes shall reap,  
Then sow! Then sow!  
And thou betimes shall reap.*

THIS IS THE LAST number of SEED-TIME AND HARVEST as a quarterly. On October 1st, we shall begin its publication monthly, probably in its present form and size, at 50 cents per year, or **4 copies for \$1.00.** We can no longer send it free to every one who magnanimously buys five cents worth of seeds, but shall put it like our other salable goods, at a price as near the actual cost of production as possible and trust that it now has friends enough to support it on that basis. Can you not get at least three of your friends to join you and send us a dollar on this account at once? Subscriptions are now in order.

OUR PLANT BUSINESS will now make lively times for us until about the first of August. As usual we are growing a large supply of cabbage and celery plants for fall and winter crops, a price list of which is given in our advertising department. We hope to be able to fill the largest orders promptly. We will say in this connection that we *positively will not* send plants "C. O. D."

A GREAT LOSS. It is probable that not more than one-tenth of the cabbage seeds which are sown in this country ever come to maturity. Of those that are lost, three-

fourths are destroyed soon after sprouting, by a little insect, smaller than a pin head, known as the cabbage flea. The damage done annually by this little miscreant in our whole country probably counts into millions of dollars. Who has not lost thousands of valuable young plants on account of him? The Editor of this Journal has published a PLANT MANUEL which, among many other valuable ideas, gives a *cheap, sure and practical* method of preventing the destruction of cabbage and kindred plants from the ravages of flea-beetles. We will mail a copy to any address for 40 cents in postage stamps, or for 75 cents we will send this book and SEED-TIME AND HARVEST for one year.

THE SEASON HERE HAS BEEN uncommonly wet and backward. Apple and other fruit trees blooming at least a week later than usual. We have had more than an abundance of rainfall during May and June, no destructive late frosts, and altogether the prospects for a fruitful season look unusually encouraging.

"May seed-time leave your doubts no room,  
The summer find your fields abloom,  
The harvest, as 'tis gathered in  
Crowd every barn and every bin!"

AS IT IS EXPECTED that this number of SEED-TIME AND HARVEST will fall into the hands of every one who has favored us with an order during the past season, we desire to grasp this opportunity to indulge in a little personal chat concerning our business relations with them.

During the spring of 1881, we succeeded in doing about twice the amount of business in the seed department, that we had the previous year been favored with, and we regarded that fact as the strongest evidence that our efforts to supply strictly *Reliable Seeds at Honest Prices* were being appreciated by our patrons. In the recurring years nothing can give us more pleasure than to see old customers return one by one, thus expressing in the highest measure their satisfaction with their dealings with us, and to have each one bring a new friend into the fold thus on the whole doubling our number of patrons was a measure of growth as rapid as we had reason to expect



or ask. So in preparing for our rush of business for 1882, we completed arrangements for the same ratio of increase again, and awaited the coming of twice as many orders as we had filled the last previous year. And how have our expectations been realized this time? To-day our order books show not only twice but nearly four times the number of orders booked and filled which they have previously shown. The result of this was that during the busiest time more delay occurred in filling some of these than we expected, and our stock of some varieties became completely exhausted long before the season was over, making some substitutions necessary. Hundred of orders for *Golden Marrow Pumpkin*, *Golden Dawn Mango*, *Eclipse Beet*, and some other items could not be filled. In case nothing could be substituted, the money was returned, and we believe that every order received by us has been satisfactorily disposed of. Should there, however, still be any who feel that complete justice has not been done them we shall still be pleased to consider their cases if they will kindly give us the number of their order which may be found upon the postal card sent them by us in acknowledgement of the order.

**CANADIAN ORDERS.** The few hundred seed orders received by us from Canada, have caused us more trouble, and we presume more hard feeling on the part of our patrons who sent them, than all others put together. The International Postal Law between the United States and Canada is so fixed that it is almost useless to undertake to send merchandise by mail across the line. The requirements are that packages must not weigh over eight ounces; rate of postage on each package is ten cents, and the package must contain nothing of any value more than for a mere sample, else it is detained for custom duties or sent to the dead letter office instead of to the party addressed. Our Canadian friends will surely have to confine their orders to their own country, or else order by freight or express.

WE HAVE NOW QUITE FULLY decided to begin the publication of SEED-TIME AND HARVEST as a monthly after October. The

October number will complete the subscription of a large number of names upon our books and of course they cannot expect us to continue sending it monthly unless we hear from them.

The subscription price will necessarily be raised to **50 cents per year**, singly, or to give a great inducement for our friends to form clubs we will take four names at one time at our old price of 25 cents each. Under the New Arrangement we cannot send it free to seed-customers unless they make their orders *at least* Two Dollars. Are not these terms liberal enough?

**Pyrethrum or Dalmation Insect Powder** which is formed by finely grinding the flowers of *Pyrethrum Cineraricefolium*, we have reason to believe will prove just the thing for the complete destruction of Potato Bugs, Currant Worms, Cabbage Worms, Plant Lice, Rose Slugs, Chicken Lice, Bed Bugs, Roaches, Mosquitoes, Flies and in fact *all* insect pests. The scarcity and high price has heretofore been a great obstacle in the way of its introduction, but we have made such arrangements with the manufacturers that we can supply it quite cheaply now. In comparing its use with Paris Green remember that you have more than twice the bulk in a given weight than in the latter, besides its absolute safety in not being poisonous to mankind will make it vastly preferable. See advertisement elsewhere.

### Express Rates.

FOR THE BENEFIT of those who wish to order Plants, &c., from us we give the following express rates which purchasers will have to pay. Cabbage plants when boxed will weigh from 20 to 30 pounds per 1000. All charges are based on 100 pounds. Less than 5 lbs. are charged as  $\frac{1}{4}$  of a hundred. From 5 to 15 lbs., about  $\frac{1}{3}$ ; from 25 to 40 lbs. about  $\frac{1}{2}$ ; from 55 to 60, about  $\frac{3}{4}$ ; from 60 to 70, about nine tenths; and over 70 lbs. are charged as 100 lbs. Rates per 100 pounds to places named are about as follows:

New York.....	\$1 10	Philadelphia.....	\$1 20
Boston.....	2 00	Washington....	2 00
Baltimore.....	1 75	Pittsburgh.....	2 25
Cincinnati.....	2 75	Cleveland.....	2 75
Chicago.....	3 25	Denver.....	10 75
Fort Wayne.....	3 00	Gettysburg, Pa.,	2 25
Harrisburg.....	1 50	Williamsport, "	1 25
Indianapolis.....	2 25	Kansas City.....	5 75
Knoxville.....	5 25	Louisville.....	3 25
Nashville.....	4 75	Mobile.....	6 50
Raleigh, N. C.,...	4 25	Atlanta.....	5 25
St. Louis.....	3 75	New Orleans....	7 50



### As an Advertising Medium.

We are pleased to note that our advertising patrons almost unanimously speak in the highest terms of the value of SEED-TIME AND HARVEST as an economical medium for increasing their trade. One of the most extensive advertisers, the publisher of the *Agent's Herald*, of Philadelphia, being determined to test the relative value of different mediums, not long since perfected a plan of giving a different number to his address in each paper in which his advertisement was inserted, and then carefully gave credit to each paper from which replies were received.

As a result of this we quote the following paragraph clipped from the Editorial Department of the *Agent's Herald* for April, 1882:

"Some time ago we made a proposition to the publisher of every newspaper in the United States for advertising space. Of those that accepted our offer the replies received from our advertisement in SEED-TIME AND HARVEST, published by Isaac F. Tillinghast, La Plume, Pa., were **four times** as many in number as those from any other paper publishing the same advertisement.

The following extracts from letters recently received from other advertisers also tend to show that *it pays advertisers*:

A MAN CONVINCED AGAINST HIS WILL, WHO IS NOT OF THE SAME OPINION.

"To demonstrate the uselessness of using such a medium as your (very creditable) paper, SEED-TIME AND HARVEST, to advertise my business, I enclose copy to occupy one inch in January. I believe in giving the D—l his due and if I can get a dollar's return from the advertisement I will give you due credit,  
Very truly,  
Geo. S. Wales.  
Rochester, N. Y., November 19, 1881.

"Enclosed find \$2 50 in payment of your bill. NUMEROUS APPLICATIONS mention SEED-TIME AND HARVEST. You may now give the enclosed advertisement one insertion. Very Truly, G. S. Wales.  
Rochester, N. Y., February 25, 1882.

"SEED-TIME AND HARVEST is one of the most valuable advertising mediums we have used this season, a large number of applications mentioning it."  
Potts Bros., Parkesburg, Pa., March 8, 1882.

"We have had numerous inquiries stating that they have noticed our advertisement in SEED-TIME AND HARVEST. Give us another insertion in the April issue." Wilson Bros. Easton, Pa., March 3, 1882.

"I am well pleased with SEED-TIME AND HARVEST as an advertising medium. I would like an estimate on my advertisement for one year. I have had as much inquiry from my card which appeared in your last issue, as from any other paper. Wishing you every success. J. G. Burrow, Fishkill, N. Y., February 24th, 1882.

"I am well satisfied with my advertisement in SEED-TIME AND HARVEST. I am receiving a great many letters referring to it. I will keep my advertisement in for one year and perhaps for two years. I am receiving letters from all parts of the world and must say that SEED-TIME AND HARVEST is the best advertising medium that I have ever yet tried. Those who sow in it will surely reap a good harvest."  
S. O. Hawkins, Bucks, Ohio, March 8, 1882.

"Isaac F. Tillinghast, Dear Sir: I am in receipt of a copy of the SEED-TIME AND HARVEST and bill for advertising in the same. So far I have received as many inquiries from my advertisement in your paper as from the last number of the American Agriculturist and Farm Journal my two best advertising mediums. Let me hear from you with bill for four insertions in you paper and oblige"  
Yours Respectfully, J. Perkins. Moorestown, N. J.

"We are well satisfied so far with our venture in advertising in SEED-TIME AND HARVEST. Enquiries are still coming in, therefore we cannot tell the full benefit we shall receive from it. We like your way of dealing and shall be pleased to use space again."  
I. C. Wood & Bro., Fishkill, N. Y.

"We are much pleased with the results of our advertisement in the last issue of SEED-TIME AND HARVEST, and enclose an advertisement for your April number." The Farmer Co., Publishers Practical Farmer, Philadelphia, Pa., March 8, 1882.

"We have received more letters of inquiry from SEED-TIME AND HARVEST (cost considered) than from any other source. Osgood & Co., Binghamton, N. Y.

"SEED-TIME AND HARVEST pays us well for advertising." G. H. & J. H. Hale, South Glastonbury, Conn.

### From the Successful Prize Contestants.

Terrace Apiary, Nokomis, Ill., May 8th, 1883.  
Isaac F. Tillinghast:

Dear Sir: It is with great pleasure I acknowledge receipt of the First Prize of Twenty Dollars in gold, awarded me by the judges of the Prize Contest, given by SEED-TIME AND HARVEST. I also wish you to do me the justice to acknowledge that I answered all three questions correctly, for I find by looking over my alphabetical list that I counted J. C. & J. G. Burrow as two and it being a typographical error I assuredly was not to blame for it. If you will recount the letters in handkerchiefs I think you will readily assent that I answered the third question correctly also. With my best wishes for the success of SEED-TIME AND HARVEST and its honorable editor, I remain,  
Very Respectfully Yours,  
F. E. PRICE.

CHINCHILLA, PA., May 5th, 1882.

Isaac F. Tillinghast;

Dear Sir: I received yours of the 1st, which contained The Second Prize of Fifteen Dollars in gold. I sincerely thank you for the handsome sum, and SEED-TIME AND HARVEST shall receive the benefit of my good words I assure you. Indeed I have spoken many already and I have the pleasure of feeling they are not unmerited. I think there are many items of practical information well worth the price of the magazine alone. It is altogether entertaining and instructive. Wishing you much success in your endeavors and SEED-TIME AND HARVEST a long and prosperous future.

I Remain, Respectfully

MRS. CLARENCE WHITE.



HINCKLEY, Medina Co., Ohio, May 15th, 1882.

Isaac F. Tillinghast,

Dear Sir: I was somewhat surprised when I received the April Number of your excellent Quarterly to see my name among the successful competitors in the SEED-TIME AND HARVEST Prize Contest. And now I have the pleasure of acknowledging the receipt from you of Ten Dollars in gold which you saw fit to award me for the third best list of answers to the three questions in the above contest. In your published list of correct answers I think you have made a slight mistake in the answer to the third question. You give the word handkerchiefs as one of the words which contains twelve different letters, which in fact contains but eleven, thus making but eight words of twelve different letters. Thanking you for the prompt transmission of the aforesaid prize and hoping that we may be permitted again to engage in another prize contest in the SEED-TIME AND HARVEST, I remain,

Very Respectfully Yours,  
N. L. VAN DUSEN.

TAYLOR, N. Y., May 9th, 1882.

Isaac F. Tillinghast:

Dear Sir: I received the five dollars in gold the 5th. Please accept my thanks for the same. I remain,

Yours Truly,  
MRS. P. A. HALBERT.

REMARKS.—Mr. Price is correct in the above assertions and we must give him the honor of sending the only strictly correct set of answers. The word "Handkerchiefs" was given in so many answers that we almost took it for granted that it contained twelve different letters and so left it in the list, a very careless oversight we must confess. Upon examination, however, we find that neither of the four competitors to whom prizes have been awarded counted it, so the results are precisely the same as though we had omitted this blunder. Our report in the April Number also contains a typographical error in giving the word *comparatively* as being on *page eleven*. This should have been *page nine*. Of the 663 contestants less than a dozen gave the eight works correctly.

## Another Prize Contest.

The person who most correctly answers the following question before September 1st, 1882, will be awarded \$20.00 in gold. Question: What word in this (July) Number of SEED-TIME AND HARVEST contains the greatest number of different letters and how many does it contain? If there are two or more words having the same number of different letters, give them all and tell upon what pages they may be found.

CONDITIONS.—Competition is open to

everybody, but every contestant must enclose six cents, (two three cent stamp will answer) with his or her answers to cover the cost of editing the contest. Should there be several absolutely correct answers, or the judges be unable to decide between the correctness of two or more answers, the prize will be equally divided between the contestants having such equal claims. If sufficient interest is manifested in this contest, we shall continue this department and offer a much larger prize in future numbers.

## Notes and Gleanings.

THREE THINGS ONLY are necessary for the accomplishment of any purpose. 1. Believe that you can do it. 2. Try to do it. 3. Do it.

MR. C. F. HIMB, of Llewellyn, Pa., says that strong soapy wash water showered on currant and gooseberry bushes will kill currant worms sure. It will also prove beneficial to the bushes.

A. M. PURDY says he is satisfied that a scattering of salt under pear trees, say from a pint to a quart to each tree, will prevent or check the pear blight.

AGRICULTURE IS always lavish of its gifts. It feeds the hungry, clothes the naked and shields mankind from disease, sickness and death. The grass, the tree, the flower, all add to man's pleasure, comfort and health.

POTTED STRAWBERRY PLANTS set in August or September will not produce a "full crop," as frequently claimed, the following spring. But a partial crop may thus be obtained and it is better to set them then, than to wait another year.

A WISCONSIN LADY says that one half a pint of salt and one ounce of copperas dissolved in a gallon of water is all that is needed for a cut worm prevention. She dips the plants in this solution before setting them. Says she has used it for years and never knew of a plant being cut off after taking this precaution.

OUR OWN EXPERIENCE with pear blight has been that trees which were set in the richest ground and cultivated, consequently those which made the strongest growth and continued to grow latest in the summer, were the first to become affected and die. Trees of the same varieties set on soil which was never manured and grass allowed to grow around them, in fact generally neglected, have made a slower growth but have remained healthy and bear every year.



*Answers to Correspondents.*

TECUMSEH, Mich., March, 18, 1882.

Isaac F. Tillinghast,

Dear Sir. Please tell me through "SEED-TIME AND HARVEST" for April what time to sow peas for seed so that I may escape the "Bug," and much oblige,

Yours Truly,

E. J. HOLLISTER, Market Gardener.

We grow but few of our own seed peas here. If you sow them late enough to escape the weevil they are sure to mildew and produce very few. If any one can give a preventive of pea and bean weevils they should have a hat passed and loaded down with gold dollars. If peas were kept in tight bags until two years old before being planted no live bugs would be planted, with them. United co-operative effort will be necessary to exterminate them.

Do you know any cure for club foot in cabbage. Will you have Wakefield plants ready for early planting. What is the price of your Vegetable Manual.

E. T. WYMAN, Fredonia, N. Y.

We have never been troubled with "club foot" either in our extensive plant beds or in the field. We have always taken the precaution to grow on new land each year. Our ideas of the cause and prevention of this malady are fully given in our practical little "Manual of Vegetable Plants," which we will mail to any address for forty cents.

KIRKESVILLE, Ohio, May 16th, 1882.

Mr. Tillinghast,

Dear Sir. The potatoes you sent me came all right. They were very nice and solid and look as though they were just taken out of the ground. Would like to know how you manage to keep them so well through the winter. We have them all planted and hope they will prove to be as good as they look. With many thanks,

I Remain, Yours Respectfully,  
J. L. RODGERS.

We dig potatoes in September and place them as soon as dry in small bins or barrels in the cellar. There is a great difference in cellars about keeping potatoes. It should be dry, cool and well ventilated.

LAUREL, Maryland, January 13th, 1882.

Mr. Tillinghast,

Dear Sir. I have decided to accept your kind offer made in Farm Journal but before sending you an order, I, being an amateur, would be greatly indebted if you would answer the following "cabbage" questions:

1 How much seed of Jersey Wakefield for one and one-half acres. 2 When to sow in latitude eighteen miles northeast of Washington, where I live. Whether in beds or otherwise. 3 Will land (clayey on which clover has fallen one season) produce good early cabbage without manure. 4 How many plants to the acre. 5 Can you supply Henderson's Early Summer. Would it be advisable to have it follow Wakefield. 6 For how much will you supply me seed enough for one and one-half acres. Please answer and you will do me an inestimable favor.

Very Respectfully Yours,  
E. H. D.

1 Early Jersey Wakefield should be set three by one and one-half feet at which distance 9680 plants will be required to set an acre. Good fresh seeds will produce 2500 strong plants to the ounce, so that one-quarter of a pound to the acre will be needed. 2 We should say by March 1st at latest, or six weeks before the weather will allow them to be put out in fields. 3 There is but little land in this country which is so rich that it will not pay to manure heavily for a crop of cabbage. 4 Answered above. 5 Yes. Just the thing. 6 See Price List.

Will you answer through "SEED-TIME AND HARVEST" the following questions. The first one perhaps is not exactly in your line but you may be able to settle a doubt in that direction.

1 Is it better to trim up a forest of pine when the branches are small or to let them grow till they die away. Which way will make the lumber freest from knots. 2 Will seeds raised in the latitude of Philadelphia, be as good to raise early vegetables from in New England, as that grown in Rochester and Detroit. 3 Is it a good plan to feed pumpkin and sunflower seed to laying hens, or what is the particular property of them as feed for fowls. 4 Will the seeds of different kinds of squashes or of squashes and melons mix the first year sufficiently to injure the fruit for eating or only the seed for future planting.

1 Who can answer this. We cannot. 2 We presume that no great difference would be seen in the product for a single year, but undoubtedly in the long run the farther north they are grown the earlier the produce will become. But buying seeds in a certain locality does not prove that they were grown there. For instance our flower seeds are mainly grown in France. Our onion seeds in Connecticut, some of our cabbage seeds on Long Island, and some in Washington Territory. Various other things come to us from England, Germany and other parts of the world. On the other hand we frequently send seeds of different kinds to dealers in New York, Philadelphia, Marblehead, Detroit, Boston, Rochester and other cities. 3 Will those who have tried it please answer. 4 We think not, but if seeds are saved from such and planted the mixture will show the second year.



I. F. Tillinghast,

Dearsir. Accompanying this is a small box containing specimens of cabbage and cauliflower plants whose stems are diseased. In a long experience of plant growing I never saw anything like it and apply to you for information. They have been once transplanted and at time of transplanting there were no signs of "damping of stems" being healthy and now they show no signs of falling over. Would not know from appearance of top that anything was the matter. Whole boxes are affected and they look as well in tops as those which are all right. I can discover no traces of insects. Cabbage out of same beds seem all right only a few contiguous to the cauliflower. Can it be any disease peculiar to cauliflower and not cabbage where so closely allied. Temperature and general management and soil same in all the beds, used small sprinkling of wood ashes raked in well when sowing. Soil was partly what was used in tomato hotbeds last season with an addition of about one half new soil and rotten leaf mold. It will add importantly to my knowledge of plant growing if you can tell me what is the matter.

Very Truly, BURT EDDY.

Wheeler, Indiana.

The plants accompanying this were very fine and of a healthy appearance except that about at the surface of the soil the stem were dried down to a fine black wiry appearance, we should say very similar to what is known as "damping off." We have never satisfied ourselves as to what the exact cause of this disease is.

CARDINGTON, Ohio, January 4th, 1882.

Mr. Isaac F. Tillinghast,

Dear Sir. I propose going into celery. There are two things I know celery must have, manure and moisture. Please, allow me to ask you a question or two:

1 What variety is the best, most hardy and desirable for market. (A seedsman advised a friend of mine, last year, to plant the, "Incomparable Dwarf White, and the San-tringham White.) Would that be your choice. 2 I have three years deposits of hen manure, would that be good for celery and if so, in what way shall I apply it or would the Buffalo superphosphate be better, or use both. 3 In what way can I successfully make the seed grow and start plants. Excuse me for troubling you, but I felt your judgement and advice would be worth everything to me in my new undertaking. My land for celery and cabbage is rich river bottom, deep soil of a sandy nature. I also have running water handy. Anything besides what I have asked that you know would be of benefit, please write me and I assure you it will be a great favor. Trusting I do not intrude too much and that soon after, the receipt of this I shall receive answer from the above you will have my thanks,

Very Respectfully,

GEORGE W. PORTER.

We give some notes on Celery in this number. We hope the Ten Dollar offer on page 9 will bring out some valuable ideas on this subject.

### Editorial Notes and Comments.

DID YOU PLANT any of the new grapes, strawberries, peaches or other fruits, or any new flowers or vegetables for trial this season? If so don't forget to tell us next fall just what you think of them. We shall have more room for such reports hereafter, and this department of SEED-TIME AND HARVEST will become a valuable feature as it will enable others to decide which of the many new offerings are of the most value.

TRY PLANTING a row of celery between two rows of early sweet corn or potatoes this year if you have not unoccupied ground. The latter may be cleared away before the celery will need the room.

AFTER HOEING, scatter a peck of corn broadcast among your potatoes and call your flock of fowls into the field. After picking up all the corn they can find they will pick up or drive away all the Colorado beetles. So says a friend who has tried it.

DOES YOUR CHIMNEY need cleaning? Buy a piece of hoop-iron a little longer than the flue. Run it down into the chimney from the top and twist it around a few times. It will scrape it as clean as you could with a knife in hand. There should be an opening at the bottom from which to remove the soot.

PROFESSOR COOK says that a carbolic soap wash has with him proved a very effectual preventive of radish maggots and apple tree borers. His formula is as follows: To two quarts of soft soap I added two gallons of water, this was then heated to a boiling temperature, when one pint of carbolic acid (in a crude state) was added. This mixture is then set away in a barrel or other vessel, and is ready for use as occasion may require. One part of this liquid is then mixed with fifty parts of water and the plants sprinkled, or trees washed with it. This is worth remembering.

A CELERY garden of forty six acres, believed to be the largest in the world, is cultivated in the suburbs of London, and the annual product is about half a million of roots or plants. There is no vegetable grown in this country which meets with a more ready sale at profitable figures than celery, and the demand is rapidly increasing.

WE have kept hogs in our orchard from April to September for past two years. They devour all the worms and we can already see a



great improvement in the fruit. If all the hogs in the country were so utilized, it would be a great benefit to both the country and the hogs as well as the individuals who eat the pork, as such pork cannot be so unhealthy as that which is made in close foul pens. There are two broods of coddling moths each season, and if the first are thus destroyed while in the larvæ, the second is materially lessened. Unity of action in the matter would prove almost a complete remedy for wormy apples.

MANY farmers refuse to take and read agricultural journals "because they are filled with mere theory." Theory is a "deduction from established truths." Is it not then the very essence of practice? When intelligent men differ in their practice, with no marked difference in results, we naturally chime in with the one who works most in accordance with our ideas of sound theory.

WE THINK THERE IS NO subject in the whole realm of gardening on which information is more frequently asked, and in fact, anxiously sought than "How to Grow Celery Successfully?" Our neighbor, Mr. Sisson, seldom fails in growing a very superior article, for family use, and he says he can answer the question in two lines, as follows: "Make your soil uncomfortably rich and cultivate thoroughly." No doubt this might be accepted as a foundation plank for nearly all garden crops and we may add a few hints from our own experience and observation. Last season was the most unfavorable for celery that has been experienced in many years, and yet we saw in a near neighbor's garden the best lot of celery we have seen in years. Neither was the soil "uncomfortably rich" but was a side hill location, composed of good dry loam on clay subsoil, just good corn or potato land. It was set in drills four feet apart and manured in shallow trenches with well rotted stable manure. The dwelling house of our friend is located just above and a small stream of water has been brought from a spring to the house for family use. After serving its purpose there the surplus water, perhaps a half inch stream was run in open troughs to the upper side of the celery plantation and allowed to soak its way into the soil for weeks during the dry weather of August and September. This proved the making of his crop.

THE EDITOR OF THE RURAL NEW YORKER says that for the past ten years he has not failed to apply twice during the summer, a wash to the trunks of his young apple trees which has effectually protected them from the ravages of the

borer. His formula is as follows: Make a thin white-wash, add to it flowers of sulphur—a gill to a pailful—a pint of soft soap, and a tablespoonful of crude carbolic acid. Apply this wash with a scrub brush or swab to the trunks of the trees, allowing it to penetrate the soil an inch below the surface. It is impossible to grow quinces without depending upon something of this kind.

WE TRIED THE EXPERIMENT of using true Dalmatian Insect Powder, which is prepared by grinding the dried flowers of *Pyrethrum Cinerariæfolium* into a fine powder or dust, on potato vines last season, and found that a small sprinkling of the dry dust quickly and effectively rid them of Colorado Beetles and slugs. We supposed that its cost would be the only obstacle in the way of universally substituting it for the dangerous Paris Green. Its production has now been cheapened so that it can now be economically used by all who wish a perfectly safe and sure remedy. In comparing its cost to that of Paris Green, the fact should not be overlooked that its specific gravity is much less, a given quantity weighing less than half as much as Paris Green while its cost is but about twice as much per pound. It is equally effective for currant worms, squash-bugs, bed-bugs, flies, mosquitoes, moths, roaches and all insect pests, though perfectly harmless to animals and the human race. We are so favorably impressed with it that we have arranged to supply a pure article to our friends. See announcement in our advertising columns. For flies and household pests it may be dusted on the window sills and in frequented places, or it is said if a little be burned on a hot shovel the effect in dispersing them by death and escape is almost magical.

FEW CROPS PAY BETTER in this country than cabbages when rightly managed. Select soil which was broken from the sod one year ago. Land which has been too long under the plow becomes hard and heavy and plants set on it are more apt to become diseased. On the other hand freshly turned sod in a dry season may not decay soon enough and is apt to dry out, yet if plowed early and the work of preparing be well done we have seen splendid results on freshly inverted sod. Work the manure well into the surface liberally. Eight thousand good heads may be grown on one acre which if sold at ten cents each make a return of \$800. If you only do half this, \$400. will repay you for all the labor and manure you are likely to expend and leave a handsome profit.



ARE "SEED-TIME" AND "Harvest" becoming synonymous terms? Taking the whole country together they pretty nearly cover the whole season simultaneously. At the present writing (May 15th,) corn planting in this vicinity has barely commenced, yet we read that on April 29th, a shipment of new wheat arrived in St. Louis, from Johnson County, Arkansas, and sold for \$4 50 per bushel, which is said to be the highest price ever paid there. New wheat harvested in Georgia, April 17th and threshed April 21st arrived in New York on May 2nd.

A NEW YORK PAPER says that in January and February last \$21,565 worth of European cabbage were landed at that port, on which the ad-valorem duty of ten per cent amounted to \$2156 50. In the same time sauer-kraut to the value of \$61,593 was also imported. Still many Americans who have good markets within easy driving distance of their homes think they cannot make it pay to grow cabbage. It strikes us that taking present prices and demand into consideration few crops will pay better.

A NOVEL PLAN for setting celery and cabbage plants which has several desirable points to recommend it, is to place them between the rows of your potatoes or sweet corn after the last hoeing. The growing corn or potatoes will afford a partial shade which is very desirable at the time of setting the young plants and until they get fully established, and yet ripen and can be removed in time for them to occupy the ground as a second crop. Two crops on one piece of ground with ten dollar's worth of labor and manure will afford more profit than one crop on which five dollars are expended.

A CORRESPONDENT says he KNOWS that a little sulphur sprinkled on cucumber and melon vines will protect them from striped bugs. If he knows it, it sure'y, must be true. Try it.

A. J. DOWNING, who was one of the best horticulturists America has ever known, said, "If I were to preach a sermon on horticulture I should take as my text 'Stir the Soil.' Frequent and deep stirring will enable one to grow fine vegetables on comparatively poor and slightly manured soil, while without it one fails to gain the proper advantage, even from the richest and finest soils."

An error occurred in the advertisement of Mr. G. L. Fancher, in our April number, which caused us much annoyance and him much trouble. See the corrected advertisement on page 19 of this issue.

How many new subscribers can you send us before October?

## Advertisements.

No advertisements are inserted in our columns unless we have reason to believe the advertisers trustworthy, reliable parties, whom we would ourselves send orders to if we wanted the articles they offer. Our advertisers and subscribers generally understand this, so when writing to any of them it will be an advantage to yourself and all concerned if you will mention SEED-TIME AND HARVEST.

## PURE ITALIAN QUEENS!

1 Choice Tested Italian Queen by return mail, \$2. Safe arrival guaranteed. **J. Luther Powers,** Berryville, Clarke Co., Va.

## SEEDS FOR FALL SOWING.

We can still supply "Reliable Seeds" of nearly all varieties offered in our Spring Catalogue at "honest prices" as usual. We have not room for a full list in this issue but will quote some of the most seasonable. At the following prices we will mail, postpaid, to any address:

Cucumber.	Pkt.	Oz.	Lb.
Tailby's Hybrid, New, .....	05	10	1.50
Early Cluster .....	05	10	1.25
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Peerless Early White Spine ..	05	10	1.25
Green Prolific .....	05	10	1.25
Long Green .....	05	10	1.25
Above Varieties Mixed .....	05	10	

Turnip.	Pkt.	Oz.	Lb.
New White Egg .....	05	10	1.25
Early White Dutch .....	05	10	.80
Purple Top Strap Leaf .....	05	10	.80
Long White Cow Horn .....	05	10	.80
Yellow Aberdeen .....	05	10	.80
Yellow Globe .....	05	10	.80
Golden Ball .....	05	10	.80
Above Varieties Mixed .....	05	10	.80

Rutabaga, or Swede Turnip.	Pkt.	Oz.	Lb.
White French, or Sw't German	05	10	.80
Skirving's Purple Top Yellow	05	10	.80
Brill's American Yellow .....	05	10	.80
Shamrock Swede, Yellow .....	05	10	.80
Above Varieties Mixed .....	05	10	.80

Address all orders. **I. F. TILLINGHAST,** La Plume, Lack'a Co., Pa.



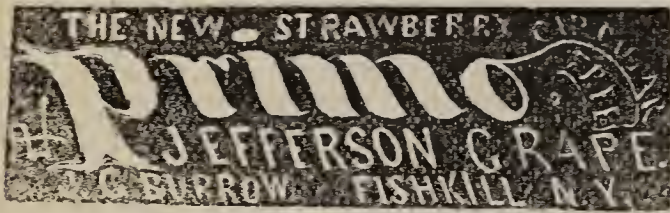
**EGGS!** **BROWN LECHORNS,** 15 for \$1.00, by Express only. **I. F. Tillinghast,** La Plume, Pa.



**Grind your own BONE MEAL and OYSTER SHELLS**

In the \$5 HAND MILL. Circulars free.

FRANK WILSON,  
43 Delaware Street, EASTON, PA.



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**A Charming Magazine for Six Months, Ten Valuable Books and Four Handsome Premiums.**

The Fireside at Home is one of the most attractive and interesting magazines in the world. Each number contains 36 large 3-column pages, including handsome cover, and it is filled with charming stories, sketches, poems, useful knowledge, wit and humor, history, biography, household notes, ladies' fancy work, etc., etc., all profusely illustrated. We want 100,000 new subscribers immediately for this charming magazine, and in order to obtain them we make the following grand extraordinary offer: Upon receipt of Seventeen Three-Cent Postage Stamps, or 51 cents, we will send **The Fireside at Home for Six Months, also Ten Valuable Books, and also Four Valuable and Useful Premiums.** The ten books we offer are each neatly bound in pamphlet form, and comprise ten complete works by ten of the greatest authors in the world. Their titles are: 1. *The Lady of the Lake*, by Sir Walter Scott; 2. *Grimm's Fairy Tales for the Young*; 3. *David Hunt*, by Mrs. Ann S. Stephens; 4. *Reaping the Whirlwind*, by Mary Cecil Hay; 5. *Judley Carleon*, by Miss M. E. Braddon; 6. *Essica*; or, *the Mystery of the Headlands*, by Etta W. Pierce; 7. *A Golden Dawn*, by the author of "Dora Thorpe"; 8. *Valerie's Fate*, by Mrs. Alexander; 9. *Sister Rose*, by Wilkie Collins; 10. *Anne*, by Mrs. Henry Wood. The four premiums we offer are as follows: 1. *Malachite Locket*, for lady or gentleman, very handsome, and will last a lifetime; 2. *Carrelian Finger Ring*, with gold-plated top, a beautiful ring, and warranted never to wear out; 3. *Pair of Pearl Sleeve Buttons*, beautifully ornamented; 4. *Ladies' Jet Brooch*, beautiful design. These goods are all warranted to last a lifetime—there is no lying about them to tarnish or wear out. Remember, we send everything named in this advertisement—the magazine for six months, the ten valuable books, and the four premiums—all by mail, post-paid, upon receipt of only 51 cents in postage stamps. Never before was so much in the way of valuable reading matter and useful premiums offered for so little money. Send at once and get the greatest bargain of the age. Satisfaction guaranteed or money refunded. As to reliability, we refer to any newspaper publisher in New York, and to the Commercial Agencies, as we have been long established and are well known. Address, **E. M. LUPTON, Publisher, 27 Park Place, New York.**



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**YOUR NAME** on 25 Snowflake Cards, 10c.; 50 New Chromo, 10c.; 25 Gold Edge, 15c.; 12 Beveled Gold Edge, 15c.; 12 Oblong Beveled Gold Edge, 15c.; 12 Slipper Cards, 15c.; 25 Acquaintance Cards, 10c.; 25 Mixed Cards, 10c.; 40 Transparent, 10c.; 20 Horseshoe Chromos, 10c. Agent's Outfit, 15c. We have the largest variety of any Card House in America. Blank Cards for sale. Address **HUB CARD CO., 55 Berkeley St., Boston, Mass.**

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**BUSINESS DIRECTORY.**

Cards for all kinds of business pertaining to Agriculture or Horticulture will be inserted in this Directory and a copy of SEED-TIME AND HARVEST included for \$1.00 per year, always in advance. Your order is solicited.

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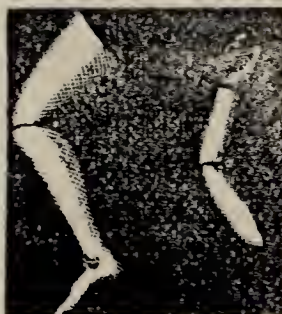
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## NONPAREIL FARM & FEED MILLS.

For Grinding Ear Corn, Shell Corn, and all kinds of Grain, fine or coarse. 12 sizes, for Hand or Power. Conical French Burr Stone Flouring and Corn Mills. Received the Grand Award Diploma and Medal at Centennial. Illustrated Pamphlet sent Free. I. J. MILLER, Cincinnati, O.



# Cabbage and Celery PLANTS!



A great specialty of our business has for years been the production and sale of Cabbage, Celery and other Vegetable Plants, and we shall continue to keep them in large supply. By our system of packing we box and ship them for long distances by express, and market gardeners and planters will often find it cheaper to purchase their supply from us than to undertake to grow them in small quantities. At the very low rates at which we furnish healthy, stocky plants a smart man can in almost any locality make a handsome profit by collecting orders and sending them to us. We invite correspondence from any who may feel inclined to do this.

## Cabbage Plants.

These we sow *by the acre* and actually have "millions for defense." The seeds are sown in the open ground in drills far enough apart so that they grow short, stocky, and with an abundance of fine fibrous roots. The first sowings are ready for transplanting about June 1st and subsequent plantings are made at intervals so that we have plants ready for setting at all times until August.

**Varieties.** For earliest use and also for very late plantings we sow and recommend the *Winnigstadt*. This produces very hard pointed heads and may be set  $\frac{3}{4}$  by  $1\frac{1}{2}$  feet, when nearly 10,000 plants may be set on an acre. It is very sure to head even on poor or sandy soil and is not injured by the cabbage worms.

*Fottler's Drumhead.* This is in season about half way between the *Winnigstadt* and *Late Flat Dutch*. It produces very large, flat, solid, white heads on a short stump, and for all purposes is becoming one of the most popular varieties. The demand for it is rapidly increasing as it becomes better known. We shall sow more of it than any other variety and can fill orders by the hundred thousand if wanted.

*Premium Flat Dutch.* Better known perhaps and more extensively grown than any other variety. For winter use the plants are set from June 20th to July 20th, though if to be set here later than July 4th, I should prefer setting an earlier variety.

**Prices.** By mail, per hundred, 40 cents. By express, 1000, \$2.00. 5000 or over at \$1.50 per thousand. This includes packing and delivery to express office here.



## Celery Plants.

We find that the demand for Celery is rapidly increasing and we have this season greatly increased our seed beds to keep pace with the growing demand for plants.

Celery makes but little growth before the cool fall months, consequently the demand for plants does not come as early as for cabbage, and we not commence shipping them before about June 30th.

**Varieties.** *Crawford's Half Dwarf* is now the most popular variety and we are growing it more extensively than other. It has a rich nutty flavor and great vigor of growth, is very solid and fine.

*La Plume Chestnut.* A new variety of dwarf white solid celery worthy of trial.

*Dwarf White Solid.* This has been for years a popular variety for market.

*Boston Market.* A favorite with many for home use. The stalks branch and grow looser than most sorts.

*Giant White Solid.* The tallest growing variety, and consequently more difficult to bleach than others, but produces a heavier crop.

**Prices.** By mail, per 100, 50 cents. By express, 1000, \$3.00.

All orders will be acknowledged when received and the plants shipped as soon as possible afterward, usually the following day unless the order is received on Friday when we wait till the following Monday.

**Location.** *La Plume* is located on the D. L. & W. R. R., twelve miles north of Scranton, Pa. We are six hours and a half from New York city, eight hours from Philadelphia, and two from Binghamton, N. Y., with a direct line to each.

All shipments by freight or express are made in the D. L. & W. Co., which also reaches Oswego, Syracuse, Utica and Ithaca, N. Y., Easton, Wilkesbarre, Bloomsburg and Northumberland, Pa., and many towns in New Jersey.

Parties ordering shipments will please give the route by which they can most readily reach any of the above places.

**N. B.** Always give us the name of the express line through which you wish your goods to come, so that we may know which way to send packages most directly. Attention to this may save you some extra freight bills.

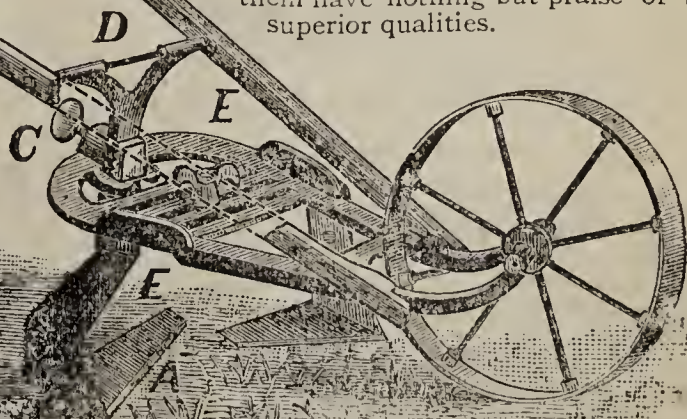
**Terms.** Our terms are cash. Remit by Registered Letter, or Post-Office Money Order, (drawn on Scranton, Pa.) One Dollar and under may safely be sent in a common letter, if plainly addressed.

## Ruhlmann's Wheel Hoe

Is the Best, Simplest and Most Perfect Weeder in Use.

It will do the work of 8 men with the common hoe. Embraces all points requisite to make a capital tool. The Handles can be raised to suit. Knife Blades set to any pitch, and from 7 to 16 inches in width, and when in working order is firm and strong, with nothing to become loose or shaky. This implement has not only given entire satisfaction, but is pronounced unequalled by all who have given it a fair trial. We have sold many with the privilege of returning, and never have had one returned. Parties who use them have nothing but praise of their superior qualities.

For the interest of all we can safely say that no one will ever regret having given it a thorough trial. For Carrots, Beets, Onions and all Garden Crops it has no equal. It has, in a short time, become the leading Tool in this and other countries. To show our confidence in this excellent tool, we will refund price paid if satisfaction is not given with its work—purchaser paying freight to and from. Leading Gardeners and Seed Growers all use it, & would not do without it. Boxed and delivered at Ft or Ex. Office \$5.50.



Address all communications to ISAAC F. TILLINGHAST,

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Plymouth Rocks, White Leghorns, Pekin Ducks, and Bronze Turkeys. My stock is first-class and prices reasonable. Send for Circular.

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**SPECIAL CHEAP OFFER**

of Zephyranthus Treati, a beautiful Amaryllis, the new Tary Lily or the Easter Lily of the South. 30,000 now ready for sale. All nursery grown bulbs, that will bloom soon after planting. 60c. per dozen, or 3 doz. for \$1.50, free by mail. Special circular, together with low priced mailing list of rare plants and bulbs, free on application.

ARNOLD PEUTZ  
Jacksonville, Fla.

**WANTED,** Agents.—Startling as the pages of romance—from the lowest depths of slavery to a position among the first in the land. "Life and Times" of

**FREDERICK DOUGLASS**

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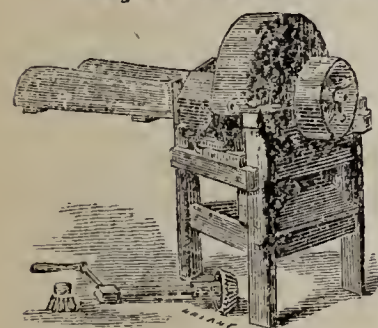
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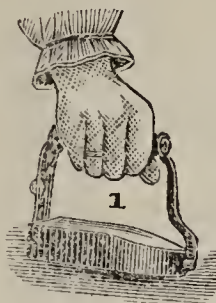
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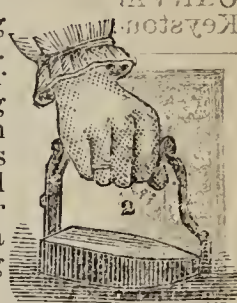
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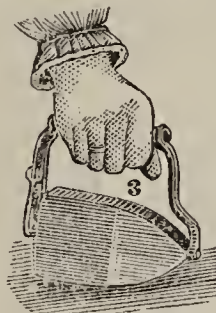


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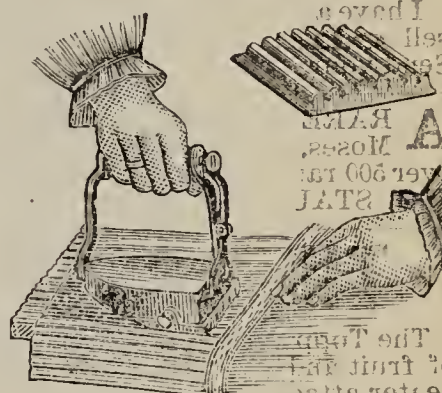
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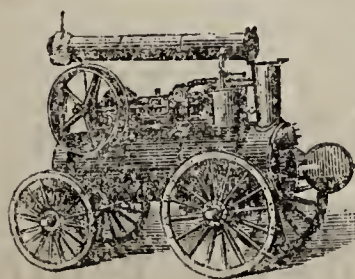
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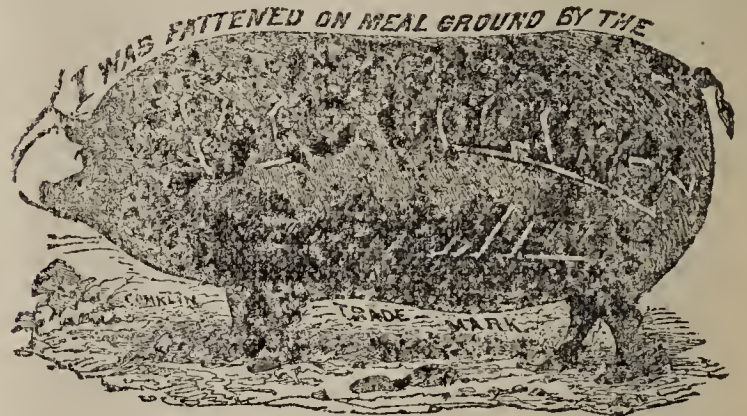
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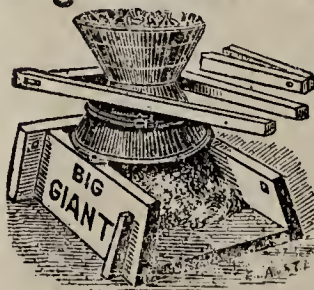
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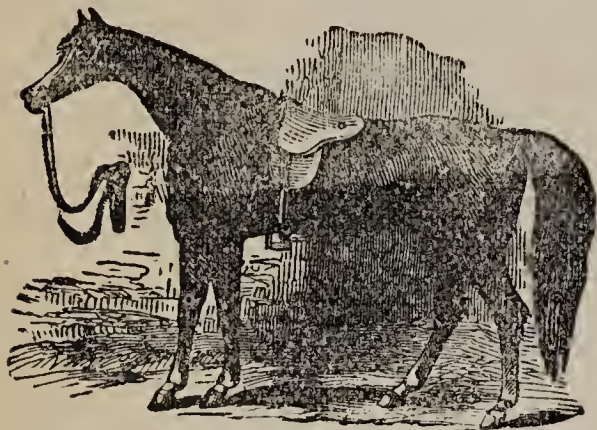
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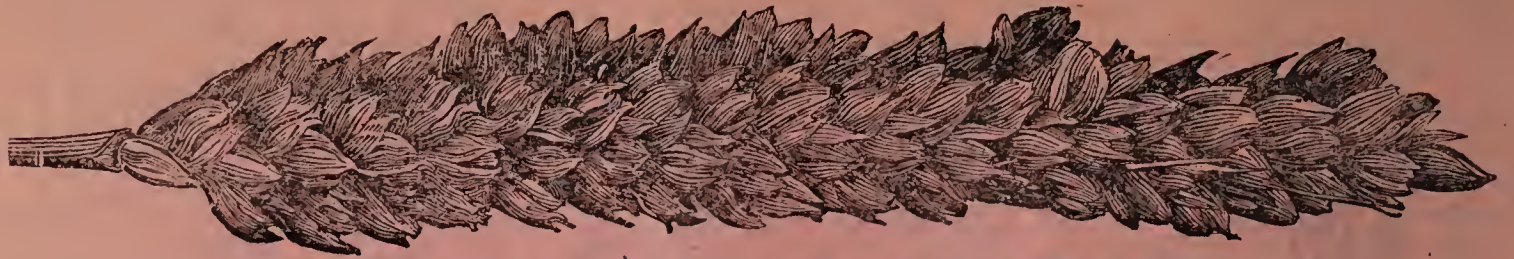
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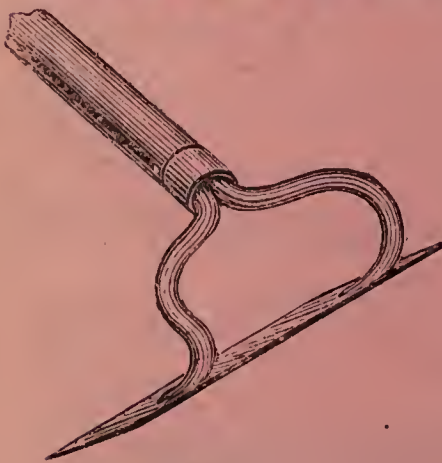
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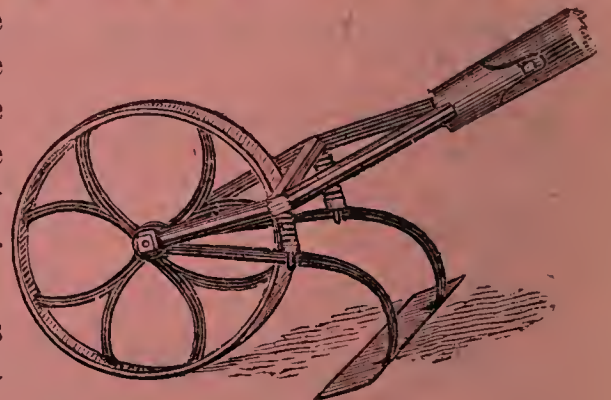
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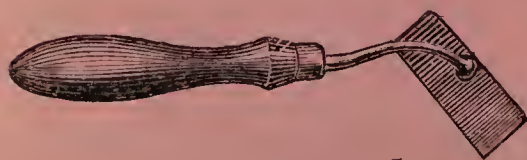
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Number 12.

Seed-Time and Harvest.



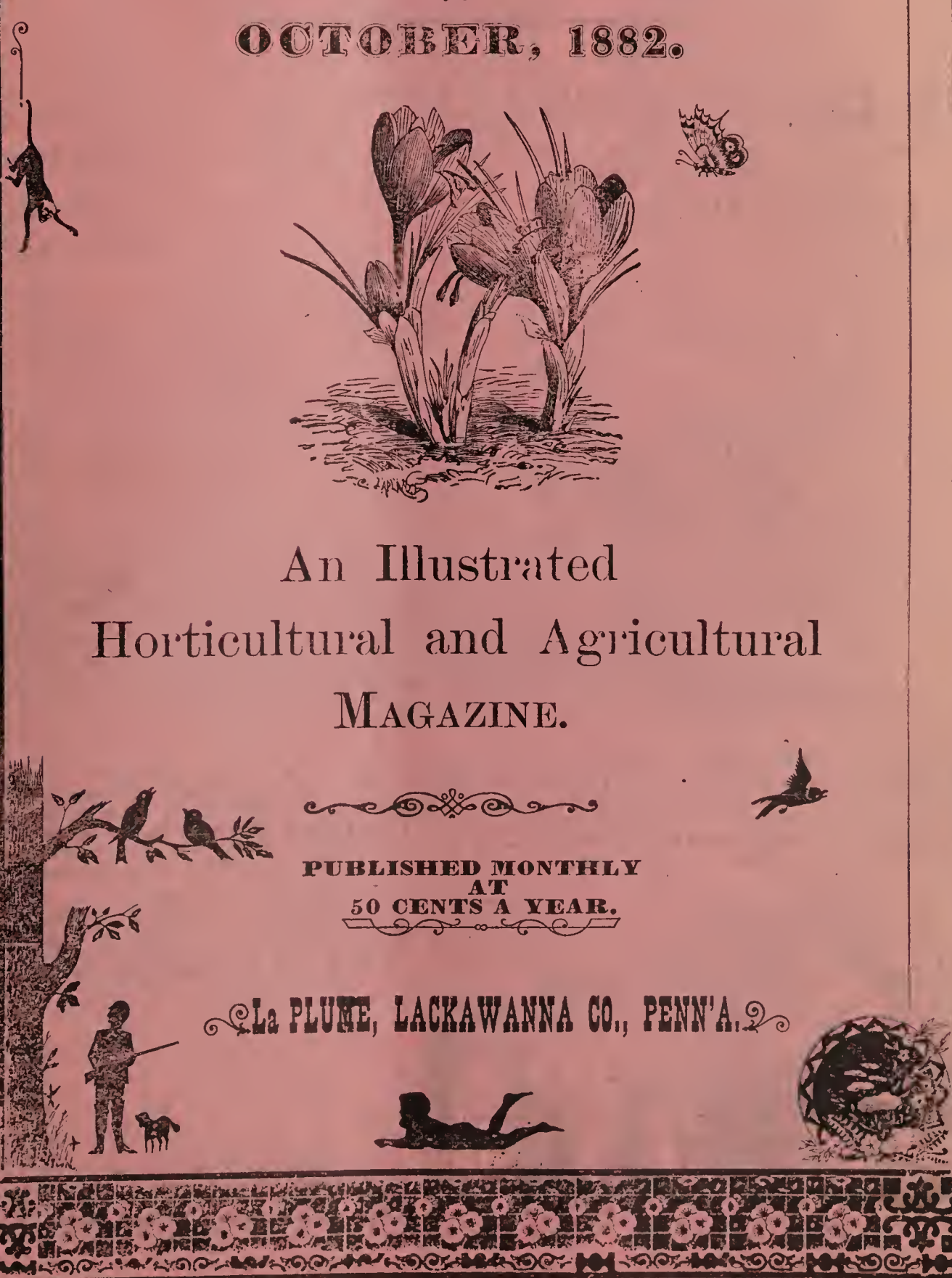
OCTOBER, 1882.



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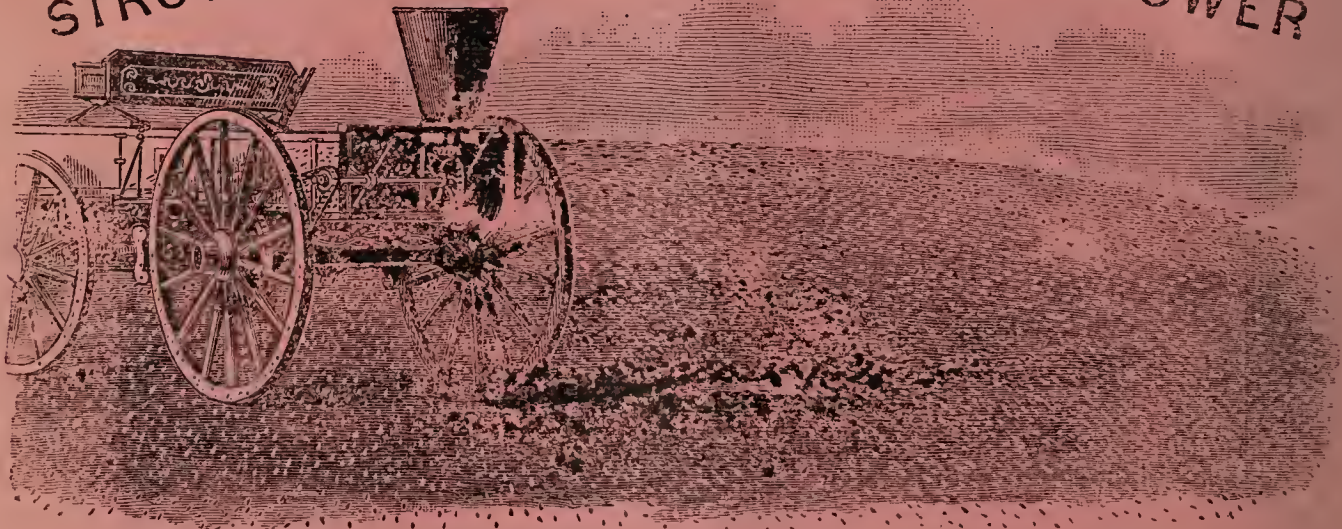
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

—FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.—

NO. 12,

OCTOBER,

1882.



## The "Lordly" Langshans.

WE present this month a fine cut of this noble fowl which is fast winning a high place among the standard breeds, and we think is destined to be the "coming" fowl.

They were introduced from the province of Langshan in Northern China, some nine or ten years ago, having been sent as a present to Maj. A. C. Croad by his nephew who was in China upon an exploring expedition under command of the British government.



For some time the breeders of the Black Cochins would not acknowledge that the Langshans were different from their pet breed but as they became more generally introduced their characteristics as a distinct breed were not only admitted but their superiority was also allowed. We give a few points from the standard as furnished by Major Croad. The beak should be of a dark horn color; comb, straight and large; neck, long, giving a symmetrical appearance to, and harmonizing with the other proportions of the body; back, broad, the shoulders rising abruptly to the tail; tail, fan shaped and distinct sickle feathers projecting six inches or more beyond the rest; feet and legs, black to dark slate color, the skin between the toes a vivid pink; carriage, graceful and intelligent. We find them to be of gentle disposition, quiet habits and good layers of large rich eggs. They lay the year round and are easily broken up when inclined to sit. They are hardy and attain maturity earlier than any other large breed with which we are acquainted, and having white flesh and skin they make a most excellent table fowl. We are indebted to our friend, Mr. J. T. Lovett, for the cut, who, though not a breeder, is an admirer of fine fowls.

### Rules for Successful Farming.

The following Rules for Successful Farming, written by the late T. B. MINER, are well worth preserving and will no doubt be read with interest by many of our young farmers:

1. Have order and system in all you do, having in your mind in advance what crops you intend to grow; and provide the seed, so that no delay will occur when the time comes for sowing and planting. You should also closely estimate the amount of stable dung that you can spare for crops, so that in no case shall a crop be grown on land that has already been over-cropped, unless some fertilizer has been applied to it.

2. Obtain good help; if possible, as half of your success depends on the kind of hired help you have; and don't employ too many hands, as a man and a boy will often do as much as two men, especially if the

latter are left to work by themselves, as they frequently spend half of their time in talking; but a man is not apt to talk much with a boy, and the consequence is that he attends to his work. Of all the nuisances that I ever suffered on a farm, I have found gabbling help to be the most unprofitable. When I hire a man, I tell him plainly that he must not "fool" away his time (my time) in talking to other men while at work, unless he wants his "walking papers."

3. Work with your help. This is the key that unlocks the door that leads to prosperity; but don't say any more to them while at work than is necessary, as you will set a bad example by telling "yarns," etc. Suppose that a farmer is hoeing corn with two or three men, and he says, "Boys, have you heard the news?" And they all stop work, or partially stop, to hear the "news," which takes, perhaps, fifteen minutes to relate, and what little corn is hoed while the "boss" is relating the "news," is but half-hoed, and might as well not have been hoed at all. Now, a day is made up of minutes, and the waste of a few in this or that way constantly during the day, is sure to result in unsuccessful farming in the end. Say to your man, in plain English; "Shut up and attend to your work, or take your money and go. I hire men to work—not to spend their time in talking."

4. Don't covet the name "he is a good man to work for;" but rather the name that I had for years: "He is a hard man to work for, but he is a good pay." That meant that I made my men do a fair day's work, which hired men now-a-days call "hard." The fact is, farmers, that nine farm hands out of ten won't do half a day's work, on an average, if you are so easy with them that they call you "a nice man to work for."

5. To do good work, you want the best farm implements that you can obtain, and plenty of them, so that if one get out of order while in the hurry of work, you can use some other implement till the broken one is repaired. You will save money in the end, by throwing away your old plows, which were made about the time of the deluge, and getting the best patterns, with steel mold-boards, as they pay for them-



selves in a single season in the saving of horse-flesh in their draft. Again, see the old, rusty hoes that many of you use, bought perhaps twenty years ago! Take out the handles and sell the hoes as old iron, and buy new ones, because you can do one-third more work, and do it much better, in a day with one of the most improved new ones, than you can with one of those you use.

6. Feed your land, if you expect it to feed you. Make all the manure that you can, as this is the bank that pays your drafts and notes. The best farm that exists may be ruined in a few years by a continued cropping, without applying manure; and put under the plow only what land you can fertilize liberally. Adopt a rotation of crops, and keep your pasture and meadow land in good condition, as the profits on your cows depend on the quality of their pastures and the quality and quantity of hay that you cut; and keep good stock, as a cow that gives twenty quarts of milk a day, can be kept almost as cheaply as one that gives only five quarts.

7. "What is worth doing, do well." Put this into your memorandum book, where you can see it often. Did you ever hear of a slovenly farmer getting rich? No, not one of you. Then do your work well, as it pays the best in the end. If you are making fences, make them to stay as built, for years. A good farmer may be known by his fences alone.

8. Carry a memorandum book in your pocket in which to note down things that are to be done, or that are wanted; and by so doing you will save much time. Your team, for instance is going to the village. You refer to your memorandum book and you find, "plow-share to be sharpened," "a new helve for ax," "nut for mowing machine," and other things that you would not have thought of if they had not been noted down in your book; and this may save you the time and trouble of sending to town the next day. Farmers, there is money in head work, as well as in your physical strength.

To-day is pleasant, and you and your help are at work in the fields. Now, suppose you think over in your mind "What

can we do if it shall rain to-morrow, or next day, or at any time?" Well, the idea strikes you that you have a few hundred fence posts in the woods, that could be holed on a rainy day, under your barn-shed if you had them there; so after dinner you send a team for a load or two of posts, as the weather seems to forbode rain soon, and the next day a storm comes on, and your hired men are kept busy at the posts. So you see how profitable it is to do a little "head-work" occasionally.

9. Don't borrow farm implements of your neighbors. This is one of the rules that every farmer should heed, as it prevents your neighbors from becoming your enemies. If a farmer has a good implement he had rather, in many cases, give his neighbor a dollar than lend such implement to him, as, in most cases, it will be returned to him injured or out of order. Indeed, if the owner does not have to send for it two or three days after the time that the borrower agrees to return it he may consider himself fortunate. Every farmer should buy every kind of implement that he may need. I once had occasion to use a large stone sledge-hammer—one large enough to break stones of 200 or 300 pounds weight to pieces. A few hours work was all I had for it; but rather than borrow one, I sent a man to town and bought one for three dollars; and I have found it very useful in driving stakes into the ground in making fences, and for various other purposes. So I say to farmers, don't borrow, but buy what you need.

### Interest the Boys.

Friend Purdy, of the *Fruit Recorder*, recently said the following in his most excellent paper, to which we wish to add hearty "Amen." He says:

"Encourage the boys to set out a few strawberries, raspberries, blackberries, currants, grapes, fruit trees, etc., allowing them a certain portion of time to care for them, and they will repay you by supplying your tables with the delicious fruits, which will be far more healthy than so much greasy, and many times diseased, pork.



You will find they will interest themselves in the growing of such, and will soon more than supply the table. Tell the boys they can take the balance to market or sell to the neighbors and have what they get for them. They will soon, with this privilege, increase the plants and increase their revenue, and thus save you very much that you would have to hand out to them, mother and the girls. One acre of strawberries, raspberries and blackberries, properly grown, will give the family all they can use and bring in a revenue to the boys of two hundred to three hundred dollars per year. As they begin on a small scale, they will go interesting themselves more and more in the business; and as new channels are opening every day for the use of fruits, they will soon make that their specialty.

Thousands of bushels of fruit that go to waste now, the wife, sons and daughters can run through the evaporator, or can, and thus put them in a condition for disposal at good, paying prices.

Eastern farmers, with their small farms, must soon turn their attention to something besides grain producing, as they cannot compete with the great west and southwest, and therefore we advise encouraging the boys to grow fruit to supply this great prairie community as well as supplying their own markets. Try it boys. Set out a small bed the coming spring, and get your hand in, and you will find the more you work at it the better you will like it. Mothers, encourage your sons. Fathers, *don't* say no, if you wish to hold your sons on the farm."

### Hash on a Tangent.

Twenty men, mostly commercial travelers, met recently at the breakfast table of one of the hotels in Burlington, Iowa. A rather pompous looking drummer sat at the head of the table. As the meal progressed a gentleman farther down the board, politely asked the gentleman at the other end to be kind enough to pass the bread. The person addressed very coolly took a slice between his thumb and finger and gave it a toss in the direction of the gentle-

man who had asked for it. Such a breach of etiquette did not escape the notice of those present; but the bread was taken and nothing said. Soon the pompous man asked for the hash. "Will you pass that hash this way?" said he. A dish containing some hot hash stood within easy reach of the man who had just caught his bread on the fly. Seeing his opportunity and at the risk of burning his palm, he reached over, seized a handful of the savory hash, and by a well directed throw, with all his force, landed the hash on his opponent's plate, from which it glanced in all directions, chiefly upon his broadcloth suit and white shirt front. The roar that went around the table was immense. After receiving the hash broadcast, Mr. Pomposo jumped up from the table, called to the proprietor and said in indignant tones "Sir, I have been insulted at your table and I want to pay my bill!" The proprietor, on finding out the true state of the case, told him at once he had better pay, and get out of the house as soon as he could,—which he did.—W. H. B., West Springfield.

### Give the Boys a Chance.

Martin Parvin writes to the *Ohio Farmer* of a farmer who gave his boy the use of a quarter of an acre. The boy was wide awake and set it to strawberries; in two years he owned two acres, and now, three years from the beginning, he owns five acres of land, and last season he cleared \$500 above all expenses on strawberries alone. It is a pity that more farmers do not give their boys a chance to follow their bent in farm management. If he likes stock raising give him a few sheep or cattle; if gardening or grain suits him, let him have a piece of land for his own use, and don't for pity's sake, after he has his produce ready for market, sell it for him and pocket the money, for if you do, ten to one, your boy will be filled with an ambition to figure behind a counter or study law or medicine, or go into some other business where a dozen are waiting for an opening, while millions of acres are being slowly but surely robbed of their fertility for want of



just such men as these bright boys will make to handle them skillfully.

### Cracking Wheat into Flour.

Minnesota millers no longer 'grind' wheat into flour. They "crack" it, and the people of the Northwest claim that the new process makes their hitherto inferior wheat the most valuable in the world. Burr stones are things of the past and Hungarian steel rollers have taken their place. These rollers are about thirty inches long and eight inches in diameter. It takes five sets of steel rollers to finish the flour. Each set of rollers runs closer than the preceding. After the wheat passes each set of rollers it is bolted or sifted through coarse cloth. This cloth lets the disintegrated particles of wheat through and passes off the bulky and larger pieces, which are run through another and a closer set of rollers and cracked again. The last rollers have little else than wheat hulls and waxy germs of wheat, which do not crack up, but smash down like a piece of wax. The germ of a kernel of wheat is not good food. It makes flour black. By the old millstone process this waxy germ was ground up with the starchy portion and bolted through with the flour. By the new system of cracking the kernel instead of grinding it, this germ is not ground, but flattened out and sifted or bolted out, while the starchy portions of the wheat are crushed into powdered wheat or flour. All the big mills of Minneapolis now manufacture by the new process.

### Strong Drink.

Time is never more uselessly wasted, money never more wastefully spent, than when spent for alcohol. Society has no greater abomination to contend against. The wrecks it has stranded on this side of the grave and on the other, are scattered along the banks of life amid all nations, from the savage barbarian to the highest stages of civilization. The widowed mother, the fatherless children, the grief stricken, gray bearded father, the broken hearted wife, the disgraced criminal, the abandoned

outcast, the fiendish murderer, illustrate in every class of society the hellish work it has done for suffering humanity. The reputations it has ruined, the promising careers it has destroyed, the families it has disgraced, the men it has brought to the gallows, the lives it has cost, the diseases it has wrought, the bestialities it has bred, point to it as the greatest of the world's accursed evils. It is the ally of the gambler, the companion of the burglar, the friend of the thief, the tool of the perjurer, the confederate of the assassin. It destroys virtue, mocks honesty, encourages crime, stimulates misery, excites passion, infuses hate, kills friendship, kindles strife, incites murder. From the time it leaves its source and enters upon its venomous course until it reaches and poisons the blood of man, it leaves foot prints of crime in its track, and covers its way with insanity, suicide, pestilence, destruction, and looks back with malicious pleasure at the desolation it has wrought. It has stained the escutcheon of every nation, befouled the thrones of empires, covered with shame the judicial ermine, polluted the jury-box, defiled the ballot. It is the sum of all villainies, the root of all evil, the spring of all wickedness. It brings disease, not strength; despair, not hope; death, not life.

### Practical Hints.

To destroy the vitality of weed seeds in soil by baking, will, in a great measure, destroy the fertility of the soil. A better way to kill weed seeds is to spread the soil out thinly in a warm place and keep it moist. In a few days most of the seeds will germinate, after which the soil should be stirred and allowed to become dry. In this manner weeds may effectually be destroyed.

To grow geranium cuttings: Take coarse, clean sand, about three inches in depth, insert the cutting about one to one and a half inches deep therein; press the sand firmly around them, and water freely at first; afterward use it sparingly. One cause of geranium cuttings turning black is the keeping of them too wet. No kind of cuttings are better adapted for sending by mail than



geraniums, as the drying of the cut end is conducive to rooting them easily, and they universally give satisfaction.

The list of admirable and choice house plants is a long one, and new ones are added every day. When the lover of flowers has a greenhouse, this long list may be freely selected from; but, if she has only a living room—and plants do better in a kitchen than anywhere else—the list must be selected with care.

The calla lily requires plenty of water during the flowering season. It is one of the best house plants grown, being sure to bloom. In the summer season I set them out under a shady tree and let them rest until fall, when I shake off all the dirt and give new soil. Give your calla hot water as a stimulant, commencing with it as hot as you can bear your hand in; then, as the calla becomes used to it, you can give it boiling hot. Give the calla plenty of pot room and plenty of water, and you will have no trouble with it.

Geraniums when first set out in beds are very apt to cast their leaves. Do not be discouraged, new ones will come; for a geranium is such an accommodating plant, it will grow without petting or coaxing, and very often where no other plant will grow. I was asked a day or two since why a person's geraniums produced such abundance of leaves but no flowers. On inquiry I found the ground had been heavily manured.

The seeds of perennials, that is plants that throw up their flower stems, mature their seeds and die down, to start up again the following spring, may be sown to bloom next season in June, July and August; but the earlier sown the much larger and stronger will the plants be and therefore more able to stand the winter. Among these perennials we find a great many flowers our grandmothers used to cultivate.

There is the white lily, which has been in cultivation some 300 years, and is still a favorite. It is a spotless white, perfectly hardy and very fragrant, and is considered an emblem of purity.

Then the bleeding heart (I purposely give it the popular name,) everybody admires it, with its lovely branches loaded with rosy

red, heart-shaped flowers. Lily of the valley, I know all who read this will appreciate, for it is a universal favorite. It thrives best in a shady place which should be made rich with well rotted manure. The foregoing perennials are increased by divisions of the roots, but very many others are produced from seed. If a good selection is made now and sown in the early summer you will have blooming plants from early next spring, commencing with the pretty forget-me-nots and continuing all through the summer with pansies, sweet william, sweet rocket, snap dragon, honesty, larkspur, fox glove, columbine, hollyhock, wall flower, Canterbury bell and others, and finishing the year with many colored chrysanthemum. Then among the perennial climbers we have everlasting pea, honeysuckle and adlumnia, although this last does not bloom until the second season. It is more properly a biennial.

R. RENNIE MCGILL.

### Fall Setting.

As to the fall setting of raspberries and blackberries, the *Fruit Recorder* remarks, that last year we urged upon our readers the importance of setting these in the fall: another year's trial has the more fully convinced us of its importance. Last fall we set out about two acres, hilling up the plants well when set, and the past Spring we set as many more. To-day those set in the fall are fully double the size of those set in the spring, while the failures to grow will number four times as much in the spring planting as in those set in the fall, and besides, there is so much more time in the fall to do work than in the spring.

By setting in the fall, and a small quantity of manure thrown over each hill, the soakings from this going to the roots of the plants gives them double the start the next spring.

One important point in growing small fruits, for either family use or market, is to get as large growth as possible on the plant or vine the first year, for in proportion to their growth, so will they yield.



### Canning Tomatoes.

Many persons who are quite successful in canning fruits generally, are apt to fail with the tomato. A lady writer in *Purdy's Fruit Recorder*, gives the following interesting account of how she succeeds:—

We have ten acres of fruit of all kinds, and I take a great deal of pride in canning fruit. I get nearly all the prizes at the fairs. I wish you could just peep into my cellar to see my tomatoes and peaches, some canned last fall and some a year ago, not mentioning my other fruit.

I will tell you how I can my tomatoes, both red and yellow. I pick the apple tomatoes—the smoothest and best shaped—and scald and skin them very carefully; take the stem out with a penknife, taking care not to cut the tomato, so as to let the juice or seeds run out; then I place them in the cans, some of them with the stem end next to the can, and some with the blossom ends; then I take the juice that has run out of what I have peeled to cook, having no seeds or pulp, and add a little salt, and pour on my whole tomatoes until nearly full; then place them in a kettle of cold water, and let them cook till I think they are hot clear through; then I seal them.

I use nothing but glass two quart jars, and after the cover has been on about five minutes I take it off so they will settle, letting the gas out; then I fill up with juice and seal again, and my cans are always full to the cover. A great many have not learned this.

You have no idea how nice they look through the glass; they show every vein and rib, and look as if they were put up raw, and when used, they are just as if they had been taken from the vines—and if you don't believe me, try it this summer. I always keep my fruit in the dark, and it don't fade through the glass.

A California experimenter has discovered that plants can be completely freed from scale bugs by applying a mixture of crude petroleum and castor oil with a feather, daubing it slightly on the leaves and stems, but not allowing any to fall to the ground or touch the roots.

### The Hollyhock.

By L. W. Goodell, Amherst, Mass.

Among the old fashioned flowers that for a time lost their popularity, but are now again coming into favor, none are more deserving than the Hollyhock. Its botanical name is *Althea rosea*, and it has been in cultivation so long that its native country is doubtful, but is probably China, though some authorities say Syria and others Egypt. While the old varieties, with their large single flowers scattered on stems eight or ten feet tall, are really fine and good for some situations, they are far surpassed by the improved modern sorts, which are of dwarfer habits, usually not growing more than three or four feet in height, with the stems covered from near the ground to the top with densely double flowers, which are of almost every hue from purest white to deep purplish maroon and almost black.

The Hollyhock is properly a biennial, though plants can be kept for several years by careful divisions of the roots and good culture; but the best flowers are produced the second season and it grows so rapidly and comes so true from seed that it is less trouble to get them from seed every year or two than to try to keep old plants. The seed can be sown at any time before August, and will usually make plants large enough to bloom the second season, but very young plants are often winter-killed, and it is better to get them started in May or June, for the larger the plants grow the first year the more abundant will the bloom usually be the second. The plants are very sensitive to water about their roots in winter, which often causes the crowns to decay, and they should be set where water will not settle around them, and it is well to give them a little protection with leaves or some similar material.—*Farm and Garden.*

Now is the time to gather the beautiful Autumn leaves for winter bouquets before their brilliant colors are destroyed by frost. When properly prepared they make wreaths fit to grace the brow of a queen.



# Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

LA PLUME, LACK'A CO., PA., OCTOBER, 1882.

**4** Club Terms.  
Copies will be sent one year for **\$1.**

*In harvest time, when fields and woods  
Out-dazzle sunset's glow,  
And scythes clang music through the land,  
It is too late to sow.  
Too late! too late!  
It is too late to sow.*

In the pleasant autumn weather,  
When the golden fruit we gather,  
Oft I think that I would rather  
See the winter come,  
Hear the piercing north wind roaring  
Through the tree-tops bare and brown,  
Than this ceaseless rustle, rustle  
Of the sere leaves falling down.

SEED-TIME AND HARVEST is 3 years old.

READER, WE WERE COUNTING ON YOU for a club of four at least. Have you sent them in yet? This is a good month to get them.

ADVERTISERS will bear in mind that copy for advertisements must be sent by the 15th. It actually requires two weeks to run our edition through the press.

DOES NOT YOUR SUBSCRIPTION expire with this number? If it does and you do not wish to lose a number or two you should renew immediately. And while you are at it, send along the names of four, at least, of your friends. One dollar will foot the bill.

THE BOOM IN SUBSCRIPTIONS which we are having since announcing that SEED-TIME AND HARVEST is to hereafter appear Monthly, will double our list of actual subscribers by December if not sooner. Well, let them come. The more we get the better paper we can give them.

NOW IS THE TIME that you should send us notes for publication concerning your gardening experiences this season. Tell us which varieties of vegetables, &c., have done the best for you, and report any other items which may prove interesting and profitable to our readers. How did that new potato please you?

**Seeds at Wholesale.** In addition to our General Descriptive Catalogue—which will be issued in January, and which will be by far the finest and most complete one ever sent out by us—we shall, about December 1st, issue a Wholesale List for Dealers. Market Gardeners and planters who purchase in large quantities. If you wish to purchase \$10.00 worth or over of *Reliable Seeds at Honest Prices* you are requested to send for our Wholesale List.

**To Seed Buyers.** New crop Cabbage Seeds and some varieties of Onion Seeds are extremely scarce this season all over the country, and not only prices must rule high for prime stocks, but it will probably be impossible for planters to get certain varieties at any price if they wait until planting time. Fortunately we have a fair supply of these scarce articles and elsewhere quote very favorable rates for early orders. There is no doubt but that many items will advance in price and we will hold to present quotations till November 1st only.

IT GIVES US THE GREATEST PLEASURE to know that the announcement of our determination to hereafter publish SEED-TIME AND HARVEST monthly has received the heartiest approval of a very large number of our readers, we having recently received hundreds of letters expressing in the most friendly terms the writers' commendation of the movement and pledging support to the new monthly, so that we have no fears as to its continued success in the future.

We would really like to make room for the publication of many of these friendly expressions, but could not possibly get them all between our two covers. We heartily thank the writers for their kindly interest and promise them that we shall labor indefatigably that we may merit the support they are so liberally bestowing upon us. As



a type of the whole, we take the following at random:—

“Your excellent SEED-TIME AND HARVEST is now a quarterly visitor at my house. It comes to us like a south wind in the spring-time. We are very much pleased with its contents, and best of all, we are glad to find ‘Reliable Seeds at Honest Prices.’ The seeds which I purchased of you last spring were prime, and grew splendidly. I am glad you are to issue SEED-TIME AND HARVEST as a monthly.”—Gilbert A. Ayers, Cumberland County, N. J.

“The seeds bought of you this spring came well and I am highly pleased with the result, especially the Mixed Cabbage seed. I think SEED-TIME AND HARVEST doubly worth fifty cents, and I am glad to see that it is to be monthly. Wishing you continued success, I remain, very respectfully,”—Mrs. H. C. Flintoff, Cheatham Co., Tenn.

“Your valuable practical SEED-TIME AND HARVEST received, and a more useful journal never was placed on our table. Many, very many thanks.”—James Fritz, Albemarle Co., Va.

But we must desist. If our little publication has any merit our readers will assuredly find it out. We therefore beg to suggest that if you can find it in your heart to say a kind word for us, you will direct the same to your immediate friends and neighbors with whom we are not acquainted—persuade them to enlist in our little army that we may grow stronger by the union. Yes, announce to the world that for only a dollar SEED-TIME AND HARVEST may be made a welcome visitor in four more households through the many recurring changes of another year.

Keep pushing ! 'tis wiser than sitting aside,  
And sighing and watching and waiting the tide:  
In life's earnest battle they only prevail,  
Who daily march onward and never say fail.

—In our advertising columns will be found the large advertisement of E. G. Rideout & Co., N. Y., of a beautiful 32 calibre revolver for \$3.50. This is said to be one of the greatest bargains ever offered in fire-arms, and the firm enjoy a first-class reputation for honesty and fair dealing.

—Our readers should all send for a “Harmonette” advertised in this issue. It is a good instrument.

—Mr. F. M. Lupton, 27 Park Place, N. Y., is one of the most successful publishers and business men in the Union. A friend of ours who has acted in the capacity of agent for him speaks well of his promptness and reliability in all business dealings. See his advertisement elsewhere in this issue.

## Answers to our Last Prize Contest.

In our last issue we offered a Prize of \$20 in gold to the person who should most correctly answer the following question:

“What word in this number of SEED-TIME AND HARVEST contains the greatest number of different letters and how many does it contain? If there are two or more words having the same number give them all and tell upon what pages they may be found.”

It has been decided that the greatest number of different letters in any one word in that issue is **12**, and that the number of words containing 12 different letters is **10**. The words are as follows:

- |                     |             |
|---------------------|-------------|
| 1. Comparatively,   | on page 4.  |
| 2. Unprofitable,    | on page 4.  |
| 3. Comparatively,   | on page 5.  |
| 4. Acknowledgment,  | on page 11. |
| 5. Comparatively,   | on page 13. |
| 6. Accomplishment,  | on page 13. |
| 7. Uncomfortably,   | on page 16. |
| 8. Uncomfortably,   | on page 16. |
| 9. Comparatively,   | on page 17. |
| 10. Northumberland, | on page 21. |

It will be seen that the word *Comparatively* is found in four different places, and the word *Uncomfortably* in two places, so there are but *six different* words. In printing the above list we have put the letters which are repeated in *italics* so they will be more readily noticed.

We find that the task has been altogether too easy this time for our many sharp-witted readers, as perfectly correct answers, as above given, have been received from **195** different persons. In our announcement of the offer we said “should there be several absolutely correct answers, or the judges be unable to decide between the correctness of two or more answers, the prize will be divided between the contestants having such equal claims.” We are therefore now indebted to 195 different persons to the amount of 10½ cents each, payable in gold!

We did intend to publish the names of the successful parties but as it will take nearly two of our pages, and we have more interesting matter prepared for this number than we can get in, we hardly feel like taking so much space this time. Those who have sent correct answers will receive a copy of this (October) number with this article



marked with an index finger. Should any persons think that they have sent correct answers and not receive a marked copy to indicate it, we will on notification confess our error or show them theirs. Though a great portion of the answers were strictly correct, there were some surprising errors. For instance twenty-seven persons gave the single word *Northumberland* as containing 13 different letters, and therefore the banner word. Fifteen gave the word *Zephyranthus* in their list as containing 12 different letters. Twenty-nine gave *Simultaneously* as 12, and two claim it has 13 different letters. Eight still claim that *Handkerchiefs* has 12, although we expressly said it had not when using it, and these people must have read our remarks to that effect or they would not have found the word.

Thirty-one persons made allusion to the word *Cinerariæfolium* which has 11 different letters besides the diphthong æ. Some claim this should be counted as a separate letter from *a*, and *e*, and some that it should not. It is certainly not a different letter. Both *a*, and *e*, are elsewhere in the word, and are counted separately to make 11. If we were to expunge the *a* and *e* where used separately, would not any one claim that it still had 11 different letters? If so it certainly has but 11 as it stands. Nine persons claim that *Pyrethrum Cinerariæfolium* is one word because it is given as the name of a plant. It is nevertheless two words unless connected by a hyphen when it might be called a compound word, and would then have been allowable. *Pantry shelves* was printed with a hyphen, though it ought not to have been, and five persons gave it in their list. Fortunately there are but 11 different letters or we should have had to allow it on account of the hyphen. In our future contests we shall strive to make the requirements so exact that more care will be required and those who do exercise care will get pay for it.

It will no doubt be very unsatisfactory for us to remit the small amount of 10 cents each to the successful competitors, as it will amount to nothing to any one of them, and will cost us considerable time and trouble to do it. We shall therefore let them decide who shall have the \$20.00 by working out

another word-hunt in which outsiders will not be allowed to take part. We will send each a certificate which must be returned with your answer in the new contest.

#### The New Requirement.

Give an alphabetical list of the different words of seven letters and over to be found in this (October) number of SEED-TIME AND HARVEST, in which no letter is repeated. A word found in your list which ought not to be there will be checked as much an error as the omission of an allowable word.

Make your list strictly alphabetical. A word out of place will not be counted but will be checked as an error. Number each word in your list by a figure at the left, and after each place the number of the page on which it is *first* found. Let the letters *a*, *b*, *c*, and *d*, designate the four cover pages. If a word is found two or more times give it once only, naming the page on which it is first found. Compound words, printed with a hyphen, are allowable. Typographical errors, should any occur, if plainly printed must be written as they are printed, but if a letter simply fails to show plainly where the sense shows it should be, supply it. Competition closes November 10th, and the announcement of the award will be made in our December number. A similar exercise, open to everybody, will soon be given with a heavy prize, and if outsiders wish to practice in anticipation of it, this will afford a good opportunity. See how near a correct answer you can get "just for fun, you know," and perhaps next time you can capture a good prize.

## Our Club List.

The Best American Periodicals  
For Country Readers, at  
Lowest Prices.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST. (or a dollar for a club of four.) This will en-



title you to as many of the following as you wish at the low prices given.

American Agriculturist.....	\$1.10
American Rural Home.....	1.00
Agricultural Epitomist.....	.30
Country Gentleman.....	2.00
Demorest's Magazine. . . . .	1.75
Farm and Garden... ..	.35
Farm Journal.....	.35
Farm and Fireside.....	.50
Fruit Recorder.....	.75
Floral Cabinet.....	1.00
Gardener's Monthly.....	1.75
Green's Fruit Grower.....	.20
Household... ..	.90
Harper's Magazine.....	3.50
New York Tribune, Weekly.....	1.25
New York Tribune, Semi Weekly.....	2.20
Poultry World.....	1.00
Practical Farmer.....	1.00
Rural New Yorker.....	2.00
St. Nicholas.....	2.75
Scientific American.....	2.75
Scribner's Monthly (Century).....	3.60
Toledo Blade.....	1.25
Vick's Monthly.....	1.00
Western Plowman.....	.50

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

### AMONG OUR EXCHANGES.

THE NORTH AMERICAN REVIEW for October opens with an instructive article on "The Coming Revolution in England", by H. M. Hyndman, the English radical leader. O. B. Frothingham writes of "The Objectionable in Literature". Dr. Henry Schliemann tells the interesting story of one year's "Discoveries at Troy". Senator John I. Mitchell, of Pennsylvania, treats of the rise and progress of the rule of "Political Bosses". Prof. George L. Vose, contributes an article on "Safety in Railway Travel"; and Prof. Charles S. Sargent, of the Harvard College Arboretum, contributes an instructive essay on "The Protection of Forests". The Review is sold by booksellers and newsdealers generally.

The FARM AND GARDEN is now one year old, and although it started out splendidly, it has continually developed new features of interest and value until it is now one of the finest and most valuable monthlies for the money that can be found. No family can invest the small sum required for a year's subscription to it with out being many times repaid for the outlay. Child Bros. & Co., 125 South 4th St., Philadelphia.

THE HOME CIRCLE for October is beautiful in appearance and contains a fine variety of reading matter. This magazine, only ten months old, has in many respects shown a vigorous growth. Its editor's presence is felt in every part, and its contributions are such as to meet the demands of all intelligent families. They are fresh, cheerful, instructive, and varied; and its several departments furnish subjects for thought and entertainment for the different tastes and ages that may go to it for supplies. Although so richly stored, it costs but \$1.50 a year. Published by the American Baptist Publication society.

THE AMERICAN AGRICULTURIST for October comes in an entirely new dress. New type, new cover, new title page, new engravings, new writers, and with it a new 40-paged premium list filled with new premiums, new offers and new announcements for the New Year. The only old thing we notice about it is the price which is remarkably reasonable at \$1.50 per year. It continues to deal a heavy hand at humbugs, has hundreds of valuable hints to housekeepers, and the carefully prepared timely topics with which it teems, ought to tempt every country man in America to secure its monthly visits to his family fireside. Long may it live, and firmly flourish. Orange Judd Co. 751 Broadway, New York.

The FARM JOURNAL of Philadelphia announces that its edition for December will be over 300,000 copies—a circulation well worth boasting of. It is conducted on the condensation principle and is *multum in parvo*. We suppose everybody takes it now, but if you do not you ought to. Send your address to Wilmer Atkinson, 125 North 9th St., Philadelphia, and we guess he will willingly send you a free copy for examination, and then you will join his regular army.

The PRACTICAL FARMER comes with a new heading, unique in design and well executed. The FARMER is the oldest agricultural paper in Pennsylvania and we are glad to see that each number bears witness of prosperity, which we hope it may long enjoy. At its reduced price of only \$1.00 per year, weekly, it certainly can be afforded by every farmer in the state. The FARMER Co., Philadelphia, Pa.

The WESTERN PLOWMAN of Moline, Ill. was started in January last and has already won an envied place in the estimation of its fortunate readers. It is without exception one of the most neatly printed and most thoroughly readable papers that we get hold of. It is one of the few papers which is favored by being carefully filed and preserved in our office. We do not wish to miss a number.

The AGRICULTURAL EPITOMIST of Watsonstown, Pa., is the out-growth of the happy thought of compiling the most valuable and timely essays and suggestions which appear in the world of agricultural literature, in one semi-monthly sheet, making a more complete scrapbook than could many farmers if they had access to all the papers published. It is a big dish of cream for 50cts.

For Southern Readers the most complete and extensive publication we receive is the SOUTHERN CULTIVATOR, of Atlanta, Georgia. Each number con-



sists of 32 pages of the size of HARPER'S WEEKLY, very nicely printed, and filled with most interesting matter, making one of the largest and handsomest publications received from any quarter, and all for \$1.50 per year.

THE FLORAL CABINET has again changed hands and comes to us with smaller pages and more of them, decidedly improved in matter and make-up. Everything about it is new and it is now one of the neatest and most valuable monthlies which finds its way to our table. 22 Vesey St. New York.

VICK'S MONTHLY MAGAZINE, which not long since met with the appalling calamity of the death of its

Editor-in chief, the lamented James Vick, so well and favorably known the world over, continues to make its monthly visits and is still one of the handsomest and freshest magazines published. A richly colored plate and numerous handsome engravings adorn each number. A noble monument to its illustrious founder.

The Annual Fair Number of the RURAL NEW YORKER is one of the largest and most costly specimens of Agricultural Journalism ever yet issued. The RURAL is doing a good work and well deserves the liberal support it is receiving. It is published weekly at 34 Park Row, New York.

### THE SUPERB.

Two very early new Red Raspberries have recently been introduced which, we judge from their unusual merits, are entitled to special mention, viz. the *Superb* and the *Hansell*. Eminent horticulturists are taking sides on these two new candidates, and we are not prepared to even guess which will win in the race. We present our readers this month with an engraving of the *Superb* made from a photograph from life.

The points of merit claimed for the *Superb* are vigor of growth; hardiness of canes; earliness and length of bearing season; productiveness; size; color and flavor of fruit. If it really excels in all these it must indeed be valuable. It originated, we believe, and will be disseminated by Mr. John Churchman of Burlington, N. J. Next month we shall give an illustration of its more recent competitor, the *Hansell*.

### Celery.

Kalamazoo, Michigan, having a fine soil adapted for celery, has become noted for that article. The *Gazette* of that city thus describes the culture practiced by the grow-



ers there:—"Not alone from the increased area will there be a larger quantity of celery in after years, but there is being more raised from the same land each year, as the gardeners become proficient in raising it, for it is comparatively a new industry for Kalamazoo. Instead of rows being five or six feet apart, as the books advise, they are raising it successfully three feet apart, and instead of five or six inches apart in the



rows it is raised half the distance, and as close as one's fingers for the last or winter crop, so double the crop is raised from the same land. Gardeners who have read books on celery raising say Kalamazoo men can teach the authors their A, B, C's in that business. Peter Henderson, the great New York gardener advises to store it for winter by packing in shallow trenches, covering with lumber, marsh hay, &c. J. W. Wilson estimates that it would cost him \$300 for lumber to secure his crops in that manner. The winter crop is now being harvested. The Kalamazoo way is to dig about two feet below the surface, then board up about two feet above; then on a frame six feet high. 12-foot boards meet and slant down the sides, with windows, all of which is banked and covered with manure. They are usually built 24 feet wide, and 40, 75 or 100 long. If the building is 50 feet long, it will hold 50,000 celery; 100 feet long, 100,000. etc. It is built on upland, if possible, for marsh is too damp and cold. When first put in the houses it is green, but bleaches in a few weeks. They pack as close as it will stand, putting boards every few feet to prevent heating and rotting. People can keep their own celery as well as apples or potatoes, by putting some marsh soil in the bottom of a barrel, packing the celery root down, not sidewise, and keeping where it will not freeze. It is desirable to keep it growing. The sprouts may run over the top of the barrel but will be no disadvantage. Put in green, and it will bleach and you can wash and trim, as you wish for the table. One of the most annoying jobs in the business is the tying in half-dozen bunches. The long felt want is for some Yankee to invent a self binder. Kalamazoo gardeners have experimented the last year raising their own seed. Denadle & Son were highly successful, and many will follow suit. The seed is raised in the spring for the year's crop. The main variety is the Crawford, although there are some fifty different kinds. J. W. Wilson & Co., have tried the Walnut and predict a popular run for it. The objective points for perfect celery are soundness, brittleness, its quick bleaching and keeping

qualities. The evils they have to contend with are hollowness, which is caused by the degenerating of the seed and rust, which attacks the plant in the ground. The principal cultivation consists in drawing the earth around the plant as it grows. The higher the earth around the celery the longer the stalks. Our skillful gardeners have made the fame of Kalamazoo celery known from one ocean to the other. Large quantities are shipped to New York and



LA PLUME CHESTNUT CELERY.

Omaha: considerable to Grand Rapids and about half the crop goes to Indiana. Good celery can be raised on upland, if water can be had in abundance, but the marsh contains everything essential to the cultivation of celery as well as other vegetables. Three crops have been raised off this soil in one season, table onions, put in early market; early celery, set in June and harvested the last of August, and winter celery, set in September and now being secured."





### WHAT OUR REPORTER SAW AT THE FAIR.

Being anxious to keep posted upon everything new in the Horticultural world, we sent a representative to one of the neighboring county fairs, this fall, with directions to report upon the fruits and vegetables on exhibition there. The fair was one of the kind quite common throughout our country. By some they have been denominated "Agricultural Horse-trots" and are conducted by Bankers, Lawyers, Hotel and Saloon Keepers and Sporting men.

The elegant Show Bills announced "Speed premiums nearly \$1000," while the premium list for stock and other exhibits was summed up in the very comprehensive terms. "The premium List is an exceedingly liberal one". A very little mathematical calculation resulted in the discove-

ry, that the liberality of it consisted in cash premiums of \$185. and seventeen Diplomas.

Our reporter turned artist and the above sketch represents the principal fruits of the fair, and the most of the vegetables. One of our neighbors came home from the same fair, bragging that he made 85 cts. through his skill on a "pool wheel," but said nothing about another investment of which we afterwards incidentally heard, in which he lost \$100. by betting on the wrong horse.

In company with a stranger, who was "sure he knew where the right card was, but hadn't quite money enough to put up and take it," our friend kindly loaned \$5. which was staked on a little "confidence game." He says he thinks the money must have gone up in the big balloon which was advertised as one of the special attractions to the fair. It will probably come down in some man's pocket who understands human nature better than he does. When asked if he was an exhibitor at the fair, he said he "took some stock in it." After taking a sober second thought he says he thinks he entered and exhibited himself as a jackass.



**When the Frost is on the Punkin.**

When the frost is on the punkin and the fodder's in the shock,  
 And you hear the kyouch and the gobble of the strut-tin' turkey cock,  
 And the clackin' of the guineys and the cluckin' of the hens,  
 And the rooster's hallylooyer as he tiptoes on the fence,  
 O it's then the time a feller is a feelin' at his best,  
 With the risin' sun to greet him from a night of gracious rest  
 As he leaves the house bareheaded and goes out to feed the stock,  
 When the frost is on the punkin and the fodder's in the shock.

They's a somepin kind o' hearty like about the atmosphere,  
 When the heat of Summer's over and the coolin' Fall is here—  
 Of course we miss the flowers and the blossom on the trees,  
 And the mumble of the hummin' birds and buzzin' of the bees;  
 But the air's so appetizin', and the landscape through the haze  
 Of a crisp and sunny morning of the early autumn days  
 Is a picture that no painter has the colorin' to mock—  
 When the frost is on the punkin and the fodder's in the shock.

The husky, rusty rustle of the tassels on the corn  
 And the raspin' of the tangled leaves, as golden as the morn;  
 The stubble in the furries, kind o' lonesome like but still  
 A preachin' sermons to us of the barns they grewed to fill;  
 The straw stack in the medder and the reaper in the shed:  
 The hosses in the stalls below, the clover overhead  
 O it sets my heart a clickin', like the tickin' of a clock  
 When the frost is on the punkin and the fodder's in the shock.

*Indianapolis Journal.*

**Advertisements.**

We aim to publish the advertisements of trustworthy parties only and such as we feel assured will deal fairly with their customers. In writing to them please mention SEED-TIME AND HARVEST.

A Half Million **APPLE TREES**, 1, 2, 3 and 4 years old, to be closed out at **\$20 per thousand** and up. Peach, Pear, Plum and Cherry trees, Strawberry Plants, &c., **equally low**. Form Clubs and get lowest rates. Catalogues free. Mention this paper. **STARK & CO.,** 12— Pike County Nursery, Louisiana, Mo.

**STRAWBERRY PLANTS!**  
 20 varieties of the Best Kinds. Immense Stock and pure. Prices low. Also Raspberries and Concord Grapes. Send for Catalogue. **R. S. COLE, Harman's, Md.**

**EGGS!** **BROWN LECHORNS,** 13 for \$1.00, by Express only. **I. F. Tillinghast, La Plume, Pa.**

**\$1.30 Teacher's Bibles.**  
 "Oxford" Teacher's Bibles concordance, encyclopedia, dictionary, tables, maps, etc. —most complete teacher's Bibles extant: 1404 pages, plain binding, gilt edge, for one Dollar and Thirty Cents. **DAVID C. COOK** 46 Adams Street, Chicago

**WE WANT A LARGE ARMY OF THE BEST** Farmers in the country to take the **PRACTICAL FARMER** next year; and to secure them—  
 have reduced the price from \$1.50 to \$1.00 per year; this reduction to remain until April 1, 1883. The **PRACTICAL FARMER** (established 1855) is the best journal in the country, stands at the head in everything that interests the farmer and his family—16 pages, folded, pasted, cut like a book; combines practice with theory, and is endorsed by every practical farmer who reads it; costs only 2 cents a number. Is a **WEEKLY** paper (52 numbers in a year) giving big full news and market reports alone worth more than the subscription price. Cheaper than any other weekly or monthly agricultural paper of same size, and better than the best of them. Offers better and more useful premiums to club agents than any other paper—all prizes and no blanks. Send a 3c. stamp containing premium **FOR A** sample copy containing list. If you don't want to get up a club, but do want the best farmer's paper in the country for \$1.00, send us a Dollar bill for a year's subscription. No pinchbeck prizes to subscribers, but twenty dollars' worth of useful agricultural and other reading matter for a **DOLLAR.**  
 Address the **FARMER CO.,** 9 N 13th St., Philadelphia, Pa.



**FULL SET OF ELEGANT IMITATION CORAL JEWELRY SENT FREE!**

The above illustrations represent, upon a small scale and imperfectly, a complete set of **Fine Imitation Coral Jewelry**, as follows: *One Handsome Ladies' Pin*, new design; *One Pair Ladies' Ear Drops*, to match; *One Pair Sleeve Buttons*, new style, very pretty; *One Beautiful Cross*, for attaching to necklace, and *One Very Handsome Necklace*. All these goods are of the finest Imitation Coral, which is so largely worn throughout the country, all are new designs and very handsome. There is nothing about them to tarnish or wear out, and they are perfect imitations of real genuine coral. In order to obtain for our well-known, old-established and popular Literary, Agricultural and Family paper, **THE RURAL HOME JOURNAL**, 100,000 new trial subscribers, we make the following extraordinary offer: *Upon receipt of only Twenty-Five Cents in postage stamps we will send The Rural Home Journal for Three Months, and to every subscriber we will also send the entire collection of Fine Imitation Coral Jewelry above described, Free!* **THE RURAL HOME JOURNAL** is a splendid eight-page, 32-column *Illustrated* paper, devoted to charming stories, sketches and poems, the Farm, Garden and Household, Ladies' Fancy Work, Health Hints, reading for the young, wit and humor, news, exposures of frauds, etc. It is one of the most interesting and valuable family papers published. You will be delighted with it, as well as with the splendid collection of jewelry. This great offer is made simply to introduce the paper into new homes. Take advantage of it now—at once. For \$1.00 we will send five subscriptions to the paper and five complete sets of the jewelry; therefore, by getting four of your friends to send with you, you will secure your own paper and jewelry free. Perfect satisfaction guaranteed or money refunded. As to our reliability we refer to the publisher of any newspaper in New York, also to the Commercial Agencies. Address **F. M. LUPTON, Publisher, 27 Park Place, New York.**



*Notes and Gleanings.*

IN THE BATTLE of life there is but one way to succeed; fight it out yourself. Give the helping hand when you may. Take it, if in some sore straight, it is offered freely, but never ask it.

ALKALI is not the most valuable manurial element to be found in ashes. If you doubt this try the experiment of using leached and unleached ashes on potatoes and cabbages, and see if the unleached ashes do not give equally marked results.

THERE is probably not another tract of land in the world, of the same dimensions which sustains so large a number of cattle as the Isle of Jersey, which averages 2,000 head to the square mile. They are kept up and fed upon roots winter and summer. The parsnip is largely grown and fed and makes very excellent butter.

MARSHALL P. WILDER says: The importance of properly thinning out fruit trees when bearing redundant crops is more and more apparent. To produce fruit that commands a good price in market has become an absolute necessity. This is seen especially in, that intended for exportation, apples of good size, fair and properly packed, commanding in the English market fully double the price of those which had not received such care.

TRUCK FARMING, or growing vegetables and fruits for market, is undoubtedly one of the most profitable branches which can be followed if the conditions are favorable to success. To make it successful or highly remunerative several things are necessary. First, easy access and quick means of transportation to good markets; second suitable soil; then cheap and convenient means of procuring an abundance of manure, labor, etc. Good seeds are also an essential requirement, but anyone can obtain them by sending to reliable growers and dealers.

MR. JOSEPH HARRIS, in his Talks on Manures, says that we can make our lands poor by growing clover and selling it; or we can make them rich by growing clover and feeding it out on the farm. Drain where needed, cultivate thoroughly so as to develop the latent plant food in the soil, and then grow clover to take up and organize this plant food. This is how to make land rich by growing clover. Draining and cultivating furnishes food for clover, and the clover takes it up and prepares it in the best shape for other crops. The clover does not create plant food, but merely saves it.

GREEN MANURING. Mr. John Watson says that the late Mr. Root valued the turning down of rye mainly as a medium to hold moisture, and that is no doubt the proper view for gardeners to take. Special fertilizers do their work best in connection with barnyard manure because such manure has the property of retaining moisture, and it seems reasonable to suppose that the next best manner to apply them would be on land where a good sod of grass or rye or clover has just been turned down. Granted that the fermented product of a clover field has some manurial value on a worn out farm, it would be a mere nothing in bulk on a good truck farm; but if looked at as a medium for getting the full benefit of fertilizers it might find more favor in connection with gardening.

MR. HENDERSON deserves credit for giving florists and plant growers at least four very valuable ideas within a few years past. First the use of the feet in sowing onion, celery and similar seeds. Thousands of dollars are annually lost by those who do not attend to this firming of the soil around the seed, especially when planted in dry weather. Second, the idea of breaking cuttings of geraniums and similar plants from the parent, merely letting them hang by the bark or skin on one side for a week or so before completely severing them. This small ligament will give nourishment to the cutting while thus hanging, and it is in the meantime becoming calloused so as to be ready to start roots immediately when completely severed and planted. Thirdly, the idea of constructing a chimney directly over the furnace in a greenhouse or forcing pit which is to be heated with flues. Thus a direct draft is secured while the fire is being started, after which the communication can be cut off in an instant and the draft thrown around through the flue which runs under the beds. And lastly the use of spagnum or bog-moss in growing plants, both as a mulch on the surface of pots, and as a base for the soil upon the benches, where it absorbs and holds moisture and liquid manures and prevents the roots of cabbage and other plants from running down, thus making a mass of fibers instead of one long tap root as where soil alone is used. It should be dried and rubbed fine through a sieve or otherwise before using for for this purpose. If either of these ideas are new to you, and you are situated so as to use them, we are sure any one of them will be worth more to you than SEED-TIME AND HARVEST will cost for the next five years.



AN extensive shipper and dealer in Liverpool, says the receipts of American apples at that port last season exceeded 900,000 barrels. He says that with fair stock selling at \$3.00 per barrel the demand was without limit, while fancy fruit brought nearly double that figure. Need we then fear of overstocking our markets.

THE FRENCH KILL poultry by opening the beak of the fowl, and with a sharp-pointed, narrow blade knife, make an incision at the back of the roof of the mouth, which divides the vertebræ, and causes instant death, after which the fowls are hung up by the legs; they will bleed freely with no disfigurement; pick while warm, and by this method the skin presents a more natural appearance than when scalded.

A GARDENER IN KALAMAZOO, MICH, says people can keep their own celery as well as apples or potatoes, by putting some marsh soil in the bottom of a barrel, packing the celery root down, not sidewise, and keeping it where it will not freeze. It is desirable to keep it growing. The sprouts may run over the top of the barrel but will do no harm. Put in green and it will bleach and you can wash and trim as you wish for the table. Celery may be set as late as September and taken up and packed in this way early in November for winter use.

NIAGARA FALLS are to be utilized in the production of electrical power. The water power of the entire American Falls is estimated at 2,000,000 horse power, or a force equal to that of 12,000,000 men. After generating the electricity by this unlimited hydraulic force, it is to be conducted through properly insulated cables to sixty-five prominent American cities and towns for illuminating purposes, and is also to be used for operating machinery and ultimately for heating purposes. Provided the project is carried out there will be 10,000 miles of copper cables with machinery to correspond.

IF you wish to increase your plantation of currants and gooseberries next season in growing plants for sale, make cuttings at once from this seasons growth. Tie them in bundles with butts even. They may be packed away in the cellar in sand, or buried in a dry place in the garden and covered with a load of horse manure and litter to keep from frost. In either case they will form a callous where cut and be ready to take root soon after being set in rows in the garden in spring. Grape cuttings may be served in the same manner, but some varieties will require bottom heat to take root successfully.

POULTRY INCUBATORS.—J. M. Bain, Secretary of the North American Poultry Association, in reporting the February meeting, says: After regular business, the subject of incubation was thoroughly discussed, and the following facts, substantially established: that the only way to raise chickens with certainty for early markets, is by the use of incubators; that a good incubator will hatch from 70 to 80 per cent of the eggs put in it; that people living in cities who have not room to keep hens, can use incubators successfully, getting eggs from grocers or farmers near by; that with special care 200 chickens may be raised to a market size in a room 15 feet square; that the business of raising poultry is particularly adapted to city life.

## Advertisements.

No advertisements are inserted in our columns unless we have reason to believe the advertisers trustworthy, reliable parties, whom we would ourselves send orders to if we wanted the articles they offer. Our advertisers and subscribers generally understand this, so when writing to any of them it will be an advantage to yourself and all concerned if you will mention SEED-TIME AND HARVEST.

## TEMPERANCE

Will sell you dollar S. S. Library and other books, strong paper binding, for 5 cents. Illustrated papers sent to single names (monthly), 5 cents a year. **BAND OF HOPE** books, papers, pledge cards and supplies "almost for a song." **SUNDAY SCHOOL SUPPLIES** at **ROCK BOTTOM** prices. Weekly Sunday-school papers only 6 cents a year; (equal to a monthly at 1½ cents a year). Sunday-school cards at marvelous rates. Teachers and Scholars' Quarterlies at prices to surprise you. Send postal asking for circular. State where you saw this advertisement. Address **H. W. ADAMS**, 46 Adams St., Chicago, Ill.

## CHESHIRE A SPECIALTY!

I make it a specialty to ship First Class Cheshire Pigs for breeding purposes. At N. Y. State Fair my stock won **all the First Premiums** and all the seconds but one, in class "Large White," but I feel more proud of the fact that during the past five years I have shipped 87 times to men I had sold to before, as it shows how practical farmers like my stock. Circular containing Photo-lithograph of breeding sow furnished on application. Pigs dress from 300 to 400 at 9 months.  
E. W. DAVIS,  
11-t1 Oneida, N. Y.

**\$2500** A year guaranteed to live men and Women on our new books, Bibles, and pictures. We give the **LARGEST COMMISSIONS** and our **NEW WAY OF CANVASSING** insures success. Send 3 cent stamp. Keystone Publishing Co., Lewisburgh, Union Co., Pa.



# RELIABLE SEEDS at HONEST PRICES.

I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I re-fill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

**No seeds** are sent out on commission to be returned and sold in after years!

**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2.

Address **Isaac F. Tillinghast, LaPlume, Lack'a Co., Pa.**

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

Beans.	2-oz Pkt.	Lb.	Peck.
Crystal White Wax.....	10	40	2.50
Early Feejee.....	10	30	1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	10	40	2.00
Ferry's Golden Wax.....	10	40	2.00
Large White Marrowfat.....	10	25	1.50

Pole Beans.			
Concord.....	10	30	2.00
Large Lima.....	10	30	—
German Wax.....	10	30	2.00
Dreer's Improved Lima.....	10	30	—

Corn.			
Red River, New.....	10	30	1.50
Early Marblehead.....	10	30	1.50
Amber Cream, New,.....	10	30	1.50
Early Minnesota.....	10	30	1.25
Moore's Early Concord.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	30	1.00
New Egyptian.....	10	30	1.25
Red and White Rice Pop-Corn	10	40	—
Wauhakum Field.....	10	30	1.25
Longfellow's Field.....	10	30	1.25

Peas.			
American Wonder.....	15	50	—
Winona Dwarf White Marrow	15	40	—
Cow Peas.....	10	30	1.25
Extra Early Dan. O'Rourke..	10	30	2.00
Philadelphia Extra Early ...	10	30	2.00
Blue Imperial.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	20	1.50

Asparagus.	Pkt.	Oz.	Lb.
Conover's Colossal.....	05	10	0.75
Early Purple Giant Argenteuil	05	20	1.50

Brussels Sprouts.			
New Dwarf.....	05	25	—

Beets.			
Early Egyptian.....	05	10	1.25
Bassano.....	05	10	.75
Dewing's Red Turnip.....	05	10	.75
Yellow Turnip.....	05	10	.75
Long Smooth Blood.....	05	10	.75
Above Varieties Mixed.....	05	10	.75

Mangel Wurzel Beets.	Pkt.	Oz.	Lb.
Yellow Globe.....	05	10	.75
Norbitan's Giant.....	05	10	.75
Webb's New Kinver.....	05	10	.75
Imperial Sugar.....	05	10	.65

Broccoli.			
Early Purple Cape.....	10	60	—
White Cape.....	10	60	—
Walcheran.....	10	60	—

Cauliflower.			
Lackawanna (New).....	20	2.00	—
Early Snowball, New,.....	20	2.00	—
Earliest Dwarf Erfurt.....	20	2.00	—
Early London.....	15	.75	—
Nonpareil.....	20	1.25	—
Lenormand's Short Stem....	20	1.25	—
Above Varieties Mixed.....	20	—	—

**Cabbage.**  
**American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

Very Early Favorite.....	15	60	—
Early York.....	05	15	2.00
Berkshire Beauty, New,.....	15	—	—
Early Bleichfield.....	10	25	4.00
True Jersey Wakefield.....	10	35	5.00
Henderson's Early Summer..	10	40	6.00
Newark Early Flat Dutch....	05	35	5.00
Large Early Oxheart,.....	05	20	3.00
Early Winningstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	25	4.00
Premium Flat Dutch.....	05	25	4.00
Late American Drumhead....	05	25	4.00
Marblehead Mammoth.....	05	25	4.00
Perfection Drumhead Savoy..	05	25	4.00
Red Drumhead,.....	05	25	4.00
Red Dutch.....	05	25	4.00
Early Dark Red Erfurt. (sold out.)	—	—	—
Above Varieties Mixed.....	10	30	—

Carrot.			
Early Short Horn.....	05	10	1.25
Improved Long Orange.....	05	10	1.25
Danvers Orange.....	05	10	1.50
White Belgian.....	05	10	1.00
Above Varieties Mixed.....	05	10	—

Celery.			
La Plume Chestnut, New,....	20	1.00	—
Crawford's Half Dwarf.....	05	35	5.00
Carter's Dwarf Crimson.....	15	40	—
New Golden Dwarf.....	15	50	—
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	50	—
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	—
Above Varieties Mixed.....	10	30	—

Chicory.			
Large Rooted.....	05	—	1.25

Cress.			
Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	—

Cucumber.	Pkt.	Oz.	Lb.
Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	—

Egg Plant.			
Long Purple.....	10	50	—
Improved N. Y. Purple.....	10	60	—
Very Early Dwarf Purple....	10	50	—
Striped Gaudalupe.....	10	60	—
Long White China.....	10	60	—
Above Varieties Mixed.....	10	60	—



# SEED-TIME AND HARVEST.

<b>Endive.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>
Green Curled .....	05	20	2.00
<b>Kohl Rabi.</b>			
Large Purple.....	10	35	
Early White Vienna .....	10	35	
Above Varieties Mixed.....	10	35	
<b>Lettuce.</b>			
Black Seeded Simpson, New,..	05	30	4.00
Hanson .....	05	20	3.00
Victoria .....	05	20	3.00
Early Curled Simpson .....	05	20	3.00
True Boston Market .....	05	30	4.00
White Seeded Tennisball.....	05	20	3.00
Black Seeded Tennisball.....	05	20	3.00
Drumhead, or Malta .....	05	20	3.00
Above Varieties Mixed.....	05	20	3.00
<b>Leek.</b>			
Large Scotch Flag .....	05	30	4.00
<b>Musk Melon.</b>			
Nutmeg.....	05	10	1.25
Skillman's Netted .....	05	10	1.25
Improved Yellow Cantaloupe	05	10	1.25
Green Citron.....	05	10	1.25
Pine Apple.....	05	10	1.25
Jenny Lind.....	05	10	1.25
Surprise, New, .....	05	15	2.00
Bay View, New,.....	05	15	2.00
Above Varieties Mixed.....	05	10	1.25
<b>Water Melon.</b>			
Cuban Queen, New.....	05	20	3.00
Phinney's Early .....	05	10	1.25
Striped Gipsev.....	05	10	1.25
Ice Cream .....	05	10	1.25
Mountain Sweet .....	05	10	1.25
Ferry's Peerless .....	05	10	1.25
Citron. (for preserving,).....	05	10	1.25
Above Varieties Mixed.....	05	10	1.25
<b>Mustard.</b>			
White French.....	05	05	60
Black American .....	05	05	60
<b>Onion.</b>			
Southport Red Globe, fine,....	05	25	4.00
Extra Early Flat Red.....	05	25	4.00
Early Red Globe .....	05	25	4.00
Yellow Danvers.....	05	20	3.00
Red Wethersfield .....	05	20	3.00
Large Yellow Dutch.....	05	20	3.00
White Globe .....	10	40	—
White Portugal.....	05	20	3.00
New Queen .....	05	25	4.00
White Italian Tripoli.....	05	25	4.00
Giant Rocca.....	05	25	4.00
<b>Parsnip.</b>			
Smooth Hollow Crowned .....	05	10	.75
Early Round.....	05	10	.75
<b>Parsley.</b>			
Extra Fine Curled .....	05	15	2.00
<b>Pepper.</b>			
<b>New Golden Dawn</b> .....	<b>15</b>		
Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne .....	10	25	4.00
Spanish Monstrous (New) .....	10	40	
<b>Pumpkin.</b>			
Large Cheese.....	05	10	.85
Sugar. (Fine for pies,).....	05	20	
Connecticut Field .....	05	05	.45
<b>Radishes.</b>			
Early Scarlet Turnip .....	05	10	1.00
Early White Turnip .....	05	10	1.00
Long Scarlet Short-Top.....	05	10	1.00
Early Scarlet Olive .....	05	10	1.00
French Breakfast.....	05	10	1.00
China Rose Winter .....	05	10	1.00
Black Spanish Winter .....	05	10	1.00
California Mammoth White..	05	15	2.00
Grey Summer Turnip.....	05	10	1.50
Golden Yellow Summer (New)	05	10	1.50
Above Varieties Mixed.....	05	10	1.25
<b>Salsify, or Vegetable Oyster.</b>			
White French.....	05	15	2.00

<b>Spinach.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>		
Round Leaved .....	05	05	0.50		
Monstrous Viroflay .....	05	10	1.00		
<b>Squash.</b>					
Low's Essex Hybrid, New,....	10	15	2.50		
Early White Bush .....	05	10	1.00		
Summer Crookneck .....	05	10	1.00		
Hubbard.....	05	10	1.25		
Marblehead .....	05	10	1.25		
Butman, (New,) .....	05	10	1.25		
Mammoth .....	10	30			
<b>Tobacco.</b>					
Connecticut Seed Leaf.....	10	30			
Kentucky Broad Leaf.....	10	30			
<b>Tomato.</b>	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>		
Essex Hybrid, New.....	10	.30	.60		
Ford's Alpha, New, .....	10	.30	.60		
Acme, .....	05	.20	.40		
Mayflower, New, .....	10	.30	.60		
Red Currant .....	05	.25	.50		
Paragon .....	05	.25	.50		
Canada Victor .....	05	.15	.30		
Conqueror .....	05	.15	.30		
Livingston's Perfection, ....	05	.20	.40		
Trophy .....	05	.15	.30		
Island Beauty.....	05	.30	.60		
Green Gage.....	05	.15	.30		
Golden Rural, New,....	05	.20	.40		
Saint Paul, (New) .....	10	.30	.60		
Above Varieties Mixed.....	05	.20	.40		
<b>Turnip.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>		
New White Egg,.....	05	10	1.25		
Early White Dutch.....	05	10	.80		
Purple Top Strap Leaf.....	05	10	.80		
Long White Cow Horn .....	05	10	.80		
Large White Globe.....	05	10	.80		
Yellow Aberdeen .....	05	10	.80		
Yellow Globe .....	05	10	.80		
Golden Ball.....	05	10	.80		
Above Varieties Mixed.....	05	10	.80		
<b>Rutabaga, or Swede Turnip.</b>					
White French, or Sw't German	05	10	80		
Skirving's Purple Top Yellow	05	10	80		
Brill's American Yellow .....	05	10	80		
Shamrock Swede, Yellow.....	05	10	80		
Above Varieties Mixed.....	05	10	80		
<b>Herb Seeds.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Pkt.</i>	<i>Oz.</i>	
Coriander .....	05	20	Dill.....	05	.25
Horehound.....	10	50	Sage .....	05	20
Summer Savory... ..	10	30	Saffron....	05	25
Sweet Marjoram.. ..	10	40	Lavender ..	10	30
Caraway .....	05	15	Sweet Basil	10	40
Sweet Fennel.....	05	20	Thyme.....	10	50
<b>Potatoes.</b>					
I am pleased to announce that I have a much finer and larger stock of Seed-Potatoes to offer this fall and next spring than ever before. I have annually tested hundreds of new varieties and believe the following list comprises the very best in cultivation. The following prices are for fall delivery, and are, no doubt, lower than I shall be able to supply them in spring. The pound prices include postage and free delivery by mail. In larger quantities they will be delivered to express or freight agents here to be transported at the expense of the purchaser.					
	<i>Lb.</i>	<i>Peck.</i>	<i>Bush.</i>	<i>Bbl.</i>	
Wall's Orange.....	\$1.00	5.00			
White Mountain.....	50	1.00			
Early Sunrise.....	50	1.00			
Red Elephant.....	50	1.00	3.00	7.50	
Jordan's Prolific.....	50	1.00	3.00	7.50	
Brownell's Best.....	50	1.00	3.00	7.50	
Early Telephone .....	50	1.00	3.00	7.50	
White Whipple.....	50	.75	2.00	5.00	
Clark's No. 1.....	50	.75	2.00	5.00	
The "Belle,".....	50	.75	1.50	4.00	
White Elephant.....	50	.75	1.50	4.00	
La Plume Triumph... ..	50	.75	1.50	4.00	
E. Beauty of Hebron. ..	50	.75	1.50	4.00	
Pride of America.....	50	.75	1.50	4.00	

**Isaac F. Tillinghast,**  
**La Plume, Lack'a Co., Pa.**



# SEED-TIME AND HARVEST.

## Seed-Time and Harvest BUSINESS DIRECTORY.

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P. C. McClure, Fountain Stock Farm, Galion, O

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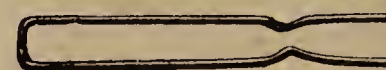
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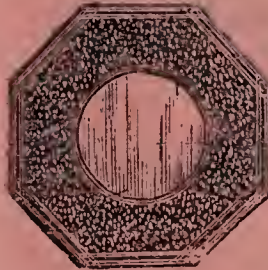


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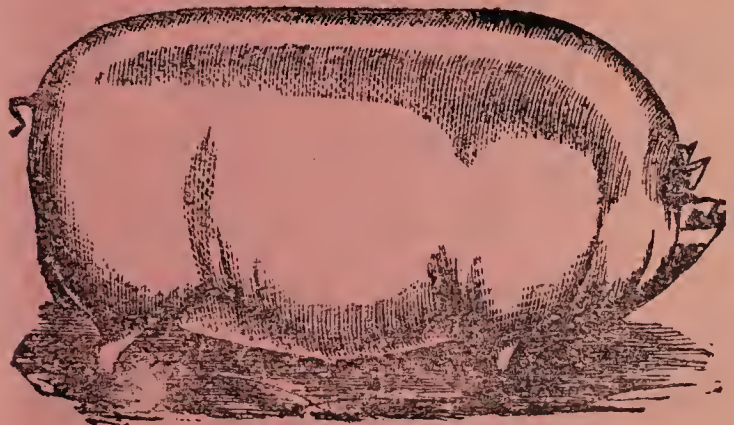
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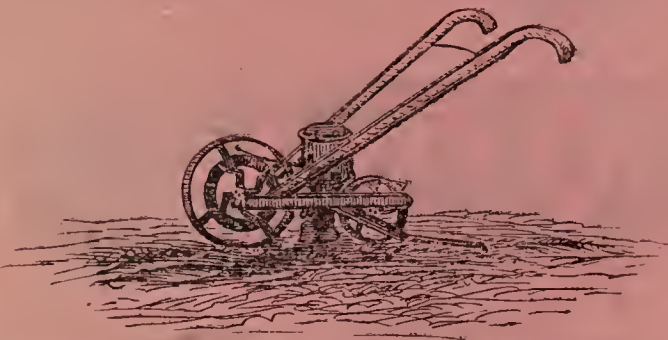
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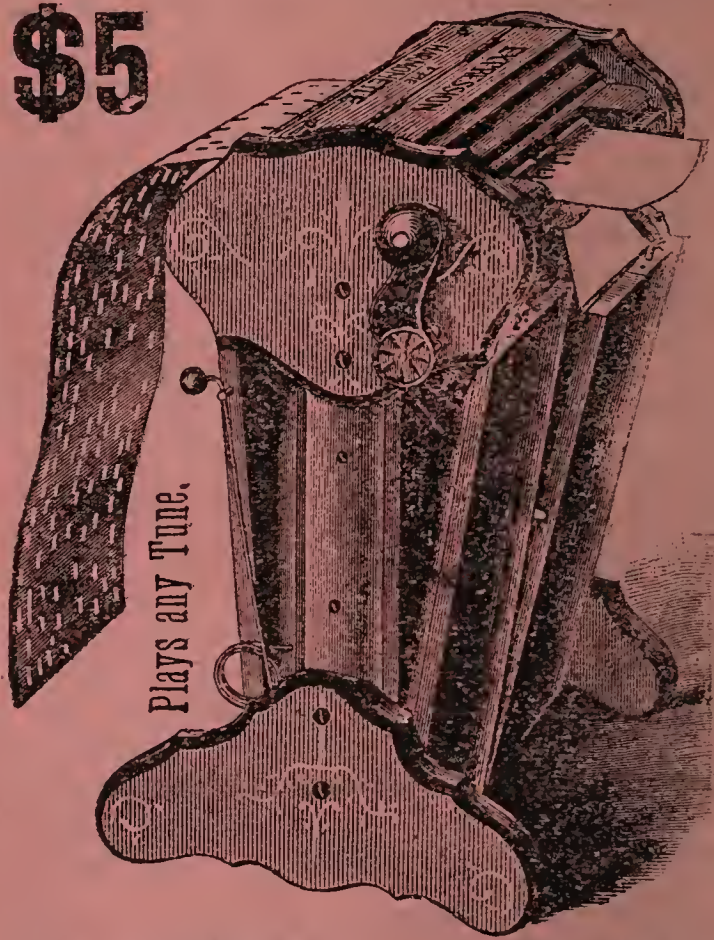
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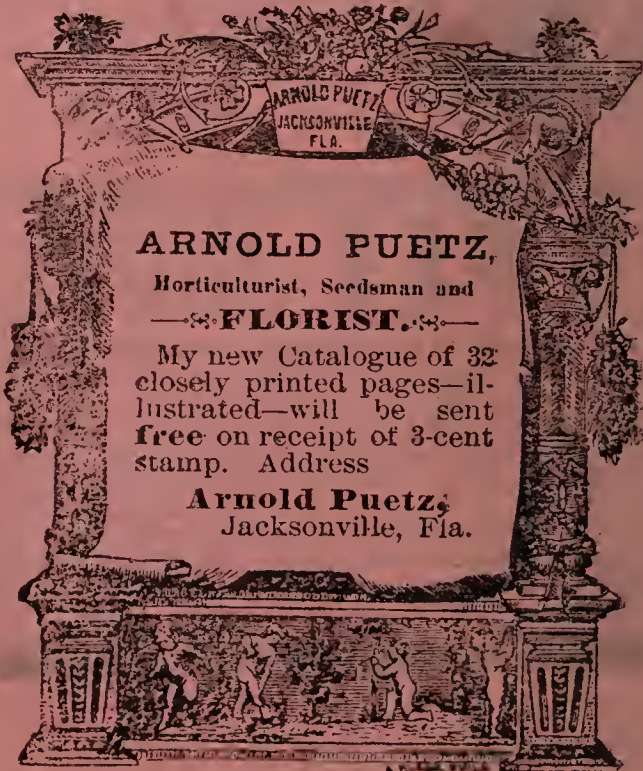
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Number 13.

# Seed-Time and Harvest.

NOVEMBER 1882.



An Illustrated  
Horticultural and Agricultural  
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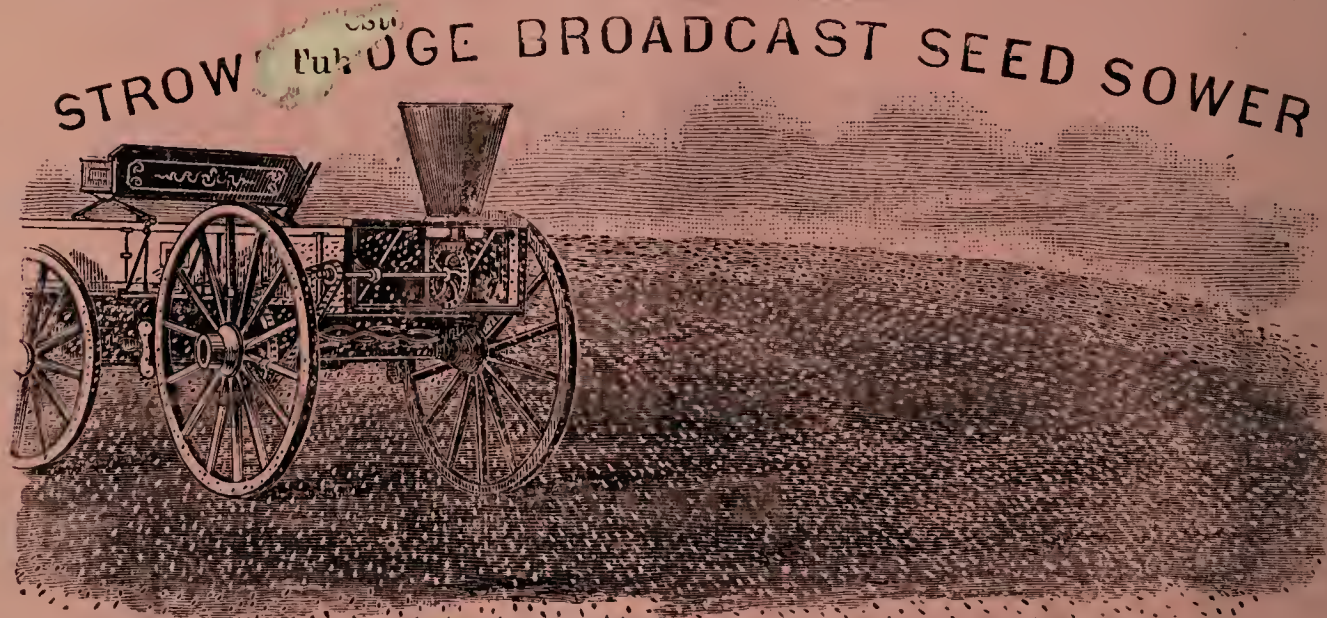
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO. 13.

NOVEMBER,

1882.



## THE HANSELL RASPBERRY

This remarkable raspberry originated with the late James S. Hansell, a noted fruit grower in Burlington county, New Jersey, some eight years ago. It may be described as follows:

Canes, very hardy and of vigorous growth and production.

Color, brightest crimson.

Size, medium to large.

Texture, very firm, having been shipped 400 miles in good condition.

Quality, best; unsurpassed.

Season, extra early.

Owing to its extreme earliness and other good qualities it is confidently believed to be the most desirable and valuable raspberry in existence. With the originator, who amassed a large fortune by fruit culture, it



has been so profitable that he continued extending his plantations until at the time of his death he had over ten acres of it growing, while his successors are still planting more. A noted fruit grower in speaking of it a few days ago said, "Judging it as one would an animal, I think there is no other raspberry that will score so many points."

### Lilies and their Culture.

BY E. V. HALLOCK, QUEENS, N. Y.

*Lilium Longiflorum* belongs to the *Eulirion* or funnel-flowered group of Lilies. Its nearest allies are *Phillipensea*, found only on the Phillipine Island of Luzon, at the altitude of 7000 feet. The bulb is similar to *Longiflorum*, flowers fragrant, white, slightly tinged with green. It is the most narrowly funnel-shaped of all the Lilies; tube 7 to 10 inches long.

*L. Neilgehrrense*, found only in the Neilgherre Hills of south western India at an altitude of 5000 ft. Tube narrow for one half its length then widely expanded; of a whitish lemon color 6 to 12 in. long. Bulb like *Longiflorum*.

*L. Wallichianum*. The only form of *Longiflorum* found in the Himalayas. Its native haunts are Kumaon and Nepal at an altitude of 5,500 ft. Flowers of a creamy white with a greenish yellow tinge on the outside; the tube is 7 to 9 in. long. Bulb like that of *Longiflorum*.

*L. Brownii*. A native of Corean Archipelago, it is the same as *Longiflorum* only the outside of the trumpet is a brownish purple.

*L. Japonicum*. (*Odorum*) Native of central and southern Japan. The outside of trumpet is a pinkish brown.

*L. Longiflorum* is indigenous to southern and central China, Formosa, Loochow Isles and southern Japan, pressing well up towards the colds of Siberia and south towards the heat of India. But as we draw towards the tropics we see the species broken into various other forms, but all retaining the general and almost identical characteristics, and also as we go towards the south and in hotter climes, we find the different forms taking to the higher and cooler altitudes where it is cold, at least, a part of the year.



LILIUM LONGIFLORUM.

As *Longiflorum* is found over so large an extent of country and in so many climes it is evident that it will flourish in almost any state of the Union. At the North the bulbs should be planted by Sept. 25th to Oct. 10th, in spots where no water will stand, and where the drainage is good. North of latitude 42 it is safer to cover them with some kind of litter, to keep the ground from continually freezing and thawing. While they stand cold well they do not like sudden extremes. The bulb (ordinary size) is about to 1½ inches in diameter, of a yellowish color; the stem grows about one to two feet high; it produces from one to thirty-eight flowers on a stalk; blooming June 20th. They are of a perfect trumpet shape, white as snow, with yellow anthers. We see but few finer sights in the floral world than a thrifty bed of these, with their



snowy trumpets bursting into bloom morning after morning. When the plants begin to bloom they remind one of a few grains of pop-corn, which burst and fill their confines with snowy flakes. A bed which appears quite scattering will become so full of bloom, as to appear like a field of snow.

*L. Longiflorum* is often called the Easter Lily, but it is erroneous. The error occurs from the fact that immense quantities are annually forced by florists for Easter time. (The true Easter Lily is *L. Candidum* which we may describe in another article.)

To force *L. Longiflorum* for the conservatory, house window or greenhouse, the following rules are necessary to attain good results. Procure solid, not flabby or loose bulbs, by Oct. 1st, or 15th, at latest. Do not expose them to the air, but keep covered with soil. From Oct. 1st to 15th, they should be carefully potted. The soil should be a rich garden soil, containing well rotted sods or leaf mold. All manure should be well rotted and thoroughly mixed with the soil. Firm the soil well around the bulb when first covered; have the top of the bulb covered about 5 in. with soil; use a 5 or 6-in. pot. When potted place the pot on the ground in some out of the way place, cover over and around the pots about 3 in. with soil; let them remain in this position until about the 25th of November. If the green or new stems have grown through the covering, care should be taken not to let them freeze too solid, by covering during the coldest nights with litter of some sort. Remove the covering and dirt from the top of the pots and place in a cool cellar or shed for about 4 days, then place where you wish to have them bloom. While growing rapidly they will consume much water, but care must be used that in dead of winter too much water is not given so as to rot the bulbs.

Of the varieties in the strictly *Longiflorum* section (i. e. what is usually understood as such) are, the type to begin with, *Eximium*, *Takesima*, *Wilsoni*, *Mad. Von Siebold*, *Harrisii*, *Floribunda*, *Alba Marginatis*, *Rosea Marginatis*. The flowers of all these are quite similar, but the variety can be easily recognized by the following

characteristics, *Eximium* flowers about one week earlier than the type, June 14th. (The dates we give are the times of their blooming on our grounds in 1880, which was an early season.) The foliage and stem are rather a lighter green, tube of flower considerably longer and opens more at the end, and not so far back; when in bud it is quite distinct, and always points toward the ground at an angle of about 45 degrees; blooms very readily from a small bulb.

*Takesima* is about one week later than the type, June 27th; smaller flower, stem darker towards the base, buds sometimes quite stained with brown.

*Mad. Von Siebold* and *Wilsoni*, as far as we have tested them are very similar and nearly identical with *eximium*. They originated in England where they split varieties very fine. As far as we have tested them we can see but little distinction.



LILIUM HARRISII.

*Harrisii* is a seedling from Bermuda, propagated from a single bulb in Philadelphia. Bulb not large, 1½ in. in diameter; its great value arises from the fact that it will flower or force much earlier than any other variety: in the greenhouses often blooming by Christmas. Planted outside, offsets will often form around the stem and bloom in



SEED-TIME AND HARVEST.



LILIUM SUPERBUM.



quite a succession till late fall. It also propagates with ease.

*Floibunda* is thought by some to be the same as *Harrisii*: it is not so, they are seedling *Longiflorums* from Bermuda. Bulbs grow to an enormous size often weighing a pound, and have produced one stalk which bore 140 flowers, it was however of the *Monstrosum* or flattened stem sort. The large bulbs from Bermuda will produce a large number of flowers, but I doubt if the size of the bulb can be maintained when grown here after the second year, when undoubtedly the number of flowers will also decrease.

*Alba Marginatis*. A form whose leaves have a distinct white margin.

*Rosea Marginatis*. A form whose leaves have a pinkish tinge on the margin. Taken altogether *L. Longiflorum* is one of the most valuable and satisfactory groups of Lilies we have. As a commercial plant it is used more than any other, and for the amateur it is valuable to force as a winter flowering plant, and planted out side it is a continual source of admiration.

### Gardening.

A thoughtful writer recommends to every man especially in the autumn of his life, to take to gardening, if he has not already experienced its pleasures. Of all occupations in the world it is the one which best combines repose and activity. It is not idleness; it is not stagnation; and yet it is perfect quietude. Like all things mortal it has its failures and its disappointments, and there are some things hard to understand. But it is never without its rewards, and perhaps if there were nothing but successful cultivation the aggregate enjoyment would be less. It is better for the occasional shadows that come over the scene. The discipline, too, is most salutary. It tries our patience and it tries our faith. But even in the worst of seasons there is far more to reward and encourage than to dishearten and disappoint. There is no day of the year without something to afford tranquil pleasure to the cultivator of flowers, something on which the mind may rest—rest with profit and delight.

### Details of Celery Culture.

BY Q. A. LOBINGIER, STEUBENVILLE, O.

*Editor of Seed-Time and Harvest:*—

In your July No. of SEED-TIME AND HARVEST, you ask for detailed methods of practice in celery growing. For the past five years we have pursued the following method with success.

About the 20th of March we sow our seed in boxes of soil specially prepared, just such soil as any good gardener would use in which to grow healthy, vigorous and fibrous-rooted plants.

We buy from the grocers boxes that have had canned fruit shipped in them, as the most suitable size, rip them into three pieces, and bottom the middle—thus giving us plant boxes about 4 inches deep.

After sowing the seed thinly and evenly in rows across the box, the soil is pressed to half an inch below the top, and a light covering of sifted sphagnum and leaf-mold put on. For the better purpose of shading and covering, the boxes are at once put into a cold frame—but left uncovered except on cold nights or severe weather. Great watchfulness is needed until the seed has germinated to see that the soil is not dried out by wind or sun. Neglect at this point will cause failure. It is sometimes necessary to give partial shade during the hotter part of the day. This we do with lath screens. When the plants are up and strong enough to be handled they are pricked off, an inch each way, into similar boxes of very rich soil and set again into frames and carefully watched with regard to watering and partial shading. When grown to 2½ or 3 inches high they are again pricked off—this time into frames that have grown only lettuce or radishes, which, having by this time been sold off, leaves the soil in good condition for the plants. In this latter transplanting, to make quick and uniform work, we use a marker made from a piece of wood 5 ft. 9 in. long 2 in. broad and 1 thick, having in it 28 wooden teeth about 3 inches long and 2½ inches between centres. Thus 28 holes or marks are made at once, which is just one row across the frame. Nothing further is done until the plants are wanted for the open field, except to see that

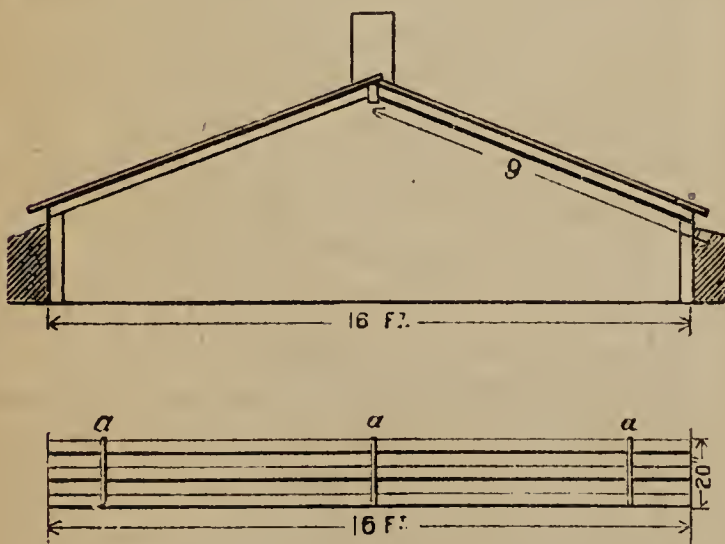


they get abundance of water, and perhaps shear off the tops, which latter we do with a common sickle, but it takes a skillful steady arm to do it right.

After our early crops of radishes, lettuce, beets and cabbage have been cleared off, (pure bone-dust having been used for them at the rate of 3000 lbs. per acre,) the ground is covered three to four inches deep with street sweepings, and plowed in. Lines are made with a marker 2 ft. apart and the plants are set 5 to 6 inches apart in the row. We have an unlimited supply of water, and have it arranged so that it can be turned in between every row of celery, and flow the entire length of the garden, which is 180 feet, with about ten inches fall in 100 ft.

As soon as the ground is dry enough, after flooding, it is well hoed with a prong hoe, and the water started in again. This is continued until fall. No banking up is done except merely enough to keep the celery in an upright position. About the 25th of Oct., for this section, we may look for hard frosts. We now take up  $\frac{2}{3}$  of the celery—allowing every third row to stand and be banked up to the top with soil. The portion dug up is stored in a shed built for that purpose, which is simply a wooden walled cellar mostly above ground.

The sketch sent herewith will make plain the construction. The frame-work is oak; the covering pine. On the approach of cold weather it is further covered with straw, long manure, leaves &c. Such a shed is quickly taken down after the celery is sold, and if carefully piled up will last at least 20 seasons.



Studding, 2 x 3 x 2 ft. Rafters, 1 x 4 x 8 $\frac{1}{2}$ ft. Ridge-pole, 2 x 4. Boards for roof, 12 in. wide, 9 ft. long. Ventilators, 12 in. square and put every 12 or 15 ft.

For partitions,—Cleats at *a a a* oak or hemlock 20 in. long  $\frac{3}{4}$  in. square. Slats 4 to 6 in. wide,  $\frac{1}{2}$  in. thick, 16 ft. long.

In storing the celery, it is placed upright, as practiced when storing in trenches, in sections about 15 inches wide, and extending across the shed, thus having a section 16 ft. long and about 15 inches wide. We begin at the end from which we wish to use first. For separating the sections, we use a slatted partition, as being cheaper and better than a wide board. No soil or other material is put between the bunches of celery, but a little soil is put over the roots, merely enough to cover them, and the roots well watered when put in, but not the tops. Great care is taken that the tops are kept from getting wet, they will decay. But as great care should be taken, if a long dry fall, that the roots do not dry out. Every expedient is used to have a good circulation of air through the shed and yet not too much light, nor too much risk from freezing if the weather should take a sudden change. In from four to six weeks, that first put in will be ready for use.

This storing in a shed is original with us; though we have heard the past summer that growers in Michigan have been using the same method.

On account of the difficulty of getting at our celery in very severe weather, we were forced to devise some method that would enable us to command the market.

On no account must the celery be disturbed until sold or wanted for use, for, in a couple of days after putting in, new roots strike out and draw sufficiently from the soil to keep the celery in good condition; and if these are disturbed they will not again take hold and the celery wilts and d-cays.

In our experience we have reached several conclusions that may aid others. We believe it a mistake to attempt to grow celery successfully in inland districts without irrigation, except favored with a rainy season.

We have never been able to get plants as uniform and vigorous by any other way than that described, though we know of cheaper methods involving much less care and labor. We always grow more than we expect to use, and our sales of plants more than pays for the growing of our own.



We have found girls 12 to 15 years of age the most skillful hands in pricking off young plants. They use a stick about 8 inches long, sharp at both ends, similar to an ordinary penholder if it was sharp at both ends, and made of the hardest hickory. They average 15 boxes per day of 10 hours, or about 3000 plants.

The great risks attending the final care and blanching celery on a large scale in our climate will put it into the hands of the few, and the successful growers will find it profitable.

Any florist, located in a town with from 6 to 20 thousand population and whose business demands a salesroom in the business portion of the town, by building a capacious ice box can find a profitable adjunct to his business in retailing celery, provided he can successfully grow it himself. No grocer nor oyster dealer can compete with him.

We never were able to find a satisfactory method of blanching it for early use until this fall. All the heretofore known methods subjected us to so much loss by rust or decay, that, coupled with the light sales during the fall months, we gave it up as unprofitable in our warm climate. We have recently tried the ordinary brown straw paper that butchers use for wrapping up meat, with perfect success. A half sheet was wrapped neatly around each stock and tied near the top and also at the bottom. One man could tie up 300 in ten hours. Of course this is too slow for commercial work and I suggest that cheap straw board—such as hat boxes are made of—be run through a set of rollers adjusted like a wringer—first making the strawboard the proper size and damping it—so that it will dry in the shape of a tube. When wanted for use it could be sprung apart and the encasing of the plant would be a very quick matter. And steel wire bent into an open ring could be used instead of tying material. We used the same paper two and three times; and with proper care, believe the cardboard could be used a number of years. Two men could fix up at least 2000 per day in the way I suggest. It required from 15 to 20 days to blanch with the paper, and was entirely free from rust or decay and

very crisp. Your readers will no doubt keep in mind that the difficulties in growing celery in inland districts and as far south as this are very much greater than in cooler latitudes; so that methods that may succeed there will not answer here.

Finally if any matter on this subject as I have related it, is in doubt or obscurity to your readers, we will cheerfully answer letters of inquiry, provided a stamp is enclosed, and a blank space left after each query, not otherwise.

## Home-Made Fertilizer.

The *Boston Journal of Chemistry* recommends as a cheap and reliable substitute for commercial fertilizers such as superphosphates, &c., the following combination, viz :

Take one barrel of pure, raw, finely ground bones, and one barrel of the best wood-ashes; mix them on a floor, and add gradually three pailfuls of water, mixing thoroughly with the hoe. Use in small quantities in about the same manner as the superphosphates. If the ashes cannot be procured, dissolve twelve pounds of potash in ten gallons of hot water, and with this solution saturate the bone flour thoroughly; a barrel of dry-peat or good loam, without stones, may be added. The mixture should not be sticky, neither too moist nor too dry. In applying it avoid direct contact with the seed; for instance, when applied in the hill scatter a little earth over it before dropping the seed. A very early visible effect should not be anticipated, but the good results will manifest themselves as the season advances.

## Hints about Flowers.

The art of arranging bouquets is very simple. Having collected the flowers to be used on a tray, all the superfluous leaves should be stripped from the stems, and, by placing the flowers side by side, you can easily see the order in which they can be most advantageously displayed. A very pretty hand bouquet can be made by taking a small straight stick, not over a quarter of an inch in diameter. Tie a string to the



top of it, and begin by fastening on few delicate flowers, or one large, handsome one, for the centre piece, winding the string about each stem as you add the flowers and leaves to the bouquet. Always place the flowers with the shortest stems at the top, preserving all those with long stems for the base, and finish off the bouquet with a fringe of finely cut foliage. Then cut all the stems evenly, wrap damp cotton around them, and cover the stems with a paper cut in pretty lace designs. In making bouquets from garden flowers, such as are most easy to procure, the flowers can be arranged flatly, and a background made from sprays of evergreen.

### House Plants.

In watering plants, care is necessary. Under the treatment of people of limited experience in window gardening, plants are apt to suffer from a lack of water or from a too abundant supply—they are either starved or drowned. The result in either case is about the same; the leaves turn yellow drop off, and the whole plant presents a sickly and forlorn appearance. Nothing is more depressing to a lover of flowers than a sickly, starved looking specimen of vegetation. Much less water is necessary in cold than in warm weather, as plants then grow but slowly. Morning seems to be the most suitable time for watering, and luke-warm water should be used applied to the surface of the soil. I have seen some poured into the saucers of the pots, to soak up into the earth at its leisure; but nature does not perform her operations by such a process, but sends the rain from above, and probably her example will be safe to follow. The plants should be watered thoroughly so that the water will penetrate to their roots. Those who are constantly dribbling a small supply of water on their plants will not have them in a flourishing condition for any length of time. The reason is obvious; the surface of the soil is kept moist, but the lower roots perish for the want of water. A plant should not be watered until it is in a condition to receive a liberal supply of the

element, which being given, it only asks to be left alone for a season. Besides watering the roots, the foliage requires nearly as much attention. Warm baths, showering, etc., are necessary to remove dust and dirt, which are as injurious to the plant as they are to the human race.

### NOVEMBER.

The wild November comes at last  
Beneath a veil of rain;  
The night wind blows its folds aside,  
Her face is full of pain.

The latest of her race, she takes  
The autumn's vacant throne;  
She has but one short moon to live,  
And she must live alone.

A barren realm of withered fields,  
Bleak woods of fallen leaves,  
The palest morns that ever dawned:  
The dreariest of eves;

It is no wonder that she comes,  
Poor month! with tears of pain;  
For what can one so hopeless do  
But weep and weep again?

—Richard Henry Stoddard.

### To Keep Sweet Potatoes.

One of our readers in Hendricks county has a plan of his own for storing sweet potatoes which has proved entirely successful for the past five years. He piles them in a corner of the cellar, immediately after digging, in as compact a manner as possible, and covers them first with a coating of coarse manure or cut straw, and after this with two or three inches of dust or dirt. He then places boxes or barrels, filled with Irish potatoes around the pile and pours a few bushels over them upon the coating of earth. The effect of all this blanketing is to keep the sweet potatoes warm, and at the same time allow the moisture arising from them to escape. During the five years our friend has practiced this simple plan he has never lost a sweet potato by decay. We think it well worth trying, and we intend to test it this winter.

—Indiana Farmer.



## Floral Notes.

## SOME NEGLECTED ANNUALS.

There are some flowers which are well liked when put before the notice of the people who use flowers, and yet they are neglected by most cultivators of them. One of these is the ageratum. Our bouquet-makers use it extensively, because it flowers easily, and combines well with most other flowers, but you will not find it in many gardens. Why this is so, I cannot explain, for it is of very easy culture, and is among our most profuse bloomers, and is really a much more desirable plant than many enjoying a greater popularity. It is like some modest person of sterling worth who shrinks into the background, while other persons with more assurance and less merit, occupy the foremost places.



AGERATUM MEXICANUM.

The ageratum is especially valuable for combining with pink and yellow flowers. Its soft lavender-blue color harmonizes with those colors exquisitely. One of the finest bouquets I ever saw, so far as harmony of color went, was composed of Marechal Niel roses, of bright lemon yellow, Master Christine geraniums, of soft, bright rose-color, pink and white fuchsias, and ageratum. The color supplied by this flower seemed to blend and bind the others into a chord of exquisite beauty, if such a term can be applied to colors. Of late, florists have introduced white and pink varieties.



THE COCKSCOMB.

This is another flower which has not received the attention it deserves. Of late it is looking up, to use a market phrase, and it will soon be a popular flower. There are two or three varieties. The old kind had a spreading shape, much like the comb of a fowl, from which it took its name. It was of rich, brilliant crimson, and it was used in making up Winter bouquets, as the flowers dry and retain their shape and color well. The varieties of later introduction are very much superior to the old kinds. Vick has a Japan cockscomb six or eight inches across, the edges of which are ruffled and crimped in a bewildering intricacy of curves. It is of intense brilliance, and no plant that we have makes a more superb show in early Fall. The feathered cockscomb is really the most beautiful, as it has a more airy, delicate habit, and is equally as bright in color as the other variety.

This plant should be given a rich, light soil. It is quite tender when young, and it is therefore better to start the seeds into growth in pots or boxes in the house. When the plants have developed three or four sets of leaves, they can be transplanted to the garden, provided that the weather has become warm, and the danger of frost at night is past. In using the flowers for Winter bouquets, pick before they begin to fade.

NOW IS THE TIME that you should send us notes for publication concerning your gardening experiences this season. Tell us which varieties of vegetables, &c., have done the best for you, and report any other items which may prove interesting and profitable to our readers.



*Notes and Gleanings.*

EARLY ROSE POTATOES—We do not know that we shall in our day see as good a potato as the Early Rose was in its palmy days. It has been the subject of more universal praise than any other potato ever offered to growers. It was first raised from the seed of the "Garnet Chili," by Albert Bresee, of Hortonville, Vermont. As to the prices paid for the earliest specimens of this potato we have no authentic record, but we do know that in the spring of 1868 D. S. Heffron, of Utica, N. Y., sold to the Messrs. Conover, of New Jersey, 153 11-13 bushels of Early Rose potatoes for the round sum of \$10,000 or at the rate of \$65 per bushel. The latter firm sold to another grower at the same time 125 bushels at \$80 per bushel, or \$220 per barrel of 2 $\frac{3}{4}$  bushels. In smaller quantities the Early Rose was sold at prices yet higher than these. Mr. Bresee received in 1868 for single tubers of the variety known as "Bresee's King of the Earlies" \$50 each. The sudden increase of the product of single tubers is thus accomplished: By employing a propagating house, cutting the shoots from a single potato, taking off cuttings as soon as the plants are six inches high, which latter are potted and plunged into a border with bottom heat, and in turn yielding other cuttings, increasing in geometric ratio, there have been secured in a single season many thousands of plants from a single tuber.

A CORRESPONDENT of the COUNTRY GENTLEMAN in writing about the country from Harrisburg to Philadelphia in Pennsylvania says:—Here one may see as good farming as can be found in America. The barns are large and fine; the buildings are all neat and tidy and are usually painted; and on many farms the fences even are whitewashed, and give a wonderful effect of neatness and finish to the farms and to the entire landscape. The cattle are sleek and the sheep are fat and flourishing. The roadsides and fence rows are clear of briars and brambles and brush and no Canada thistles or wild mustard, or ox-eye daisies or cockles dare show their heads. The men that farm it so always have good crops. Good land helps to make good farming no doubt, but good farming in time makes good land even out of poor, and always improves it.

IN NEW JERSEY, eastern New York and Connecticut the style of farming has been entirely revolutionized within a few years. The vicinity to the large cities, Philadelphia, New York, Brooklyn, Newark, etc, has made fruit and

truck farming more profitable. Wheat and wool are little raised, and the grist mills and woolen mills along the Hudson river are going to decay, even where there is good water power, and the hill streams once more go tumbling down to the Hudson in free and rollicking cascades. Even raising hay for New York is less common than a few years ago. The deep river makes cheap barge transportation in summer, it is true, but that is just when farmers lack the time to ship hay. And in winter when navigation is closed, freights, I am told are as low on hay from competing points in Illinois as from non-competing points but a hundred miles from New York, and as cheap on flour from Minneapolis as from Rochester. This has helped change large farming into small farming of perishable vegetables and fruits, and so the large farms are being divided up into small truck and berry patches, and hundreds of bushels of berries and other fruits go each week from single small shipping stations all about New York. Large farms are at a discount.

W. I. C.; Ironton, Ohio.

A correspondent of *Vick's Magazine* says: There are very few people not fond of lettuce in the early spring. Having removed from the city, where early lettuce could be bought at the markets, I was much at a loss for this refreshing salad plant—at least, until quite warm weather. Knowing it to be quite hardy, I, last autumn sowed some seed in a warm, dry spot, and in a week or two the plants were up. Before hard frost I placed around my little patch some boards—to be particular, an old door frame—and over this some loose boards, covering about two-thirds of the space, so that there was about one-third uncovered for light and air. It was where it got the best of the sun, sloping south-east, and it was a surprise to find how early I had young lettuce from this rude bed. Of course, this will be of no benefit to those who have hot-beds and other conveniences for forcing vegetables. But to many of your readers I think the knowledge may be useful.

WILLIAM H. VANDERBILT RECEIVES four times per annum a check for \$176,000 interest on the United States bonds he ho'ds (enough to keep a man from want,) and yet it is but a tithe of his enormous wealth. It is certain that he is the richest man now living, and it is probable that he is worth more than any two men who ever lived (if Gould, perhaps, be excepted,) the most of it made within the past twenty-five years. He is believed to own more than \$100,000,000 of railroad securities, besides his government bonds paying him \$704,000 per annum.



MAKE YOUR HOMES PLEASANT. Have your houses warm and comfortable for the winter. Do not build a story and a half house. The half story is simply an oven in which, during the summer, you will bake every night, and feel in the morning as though only a rind of yourself was left. Decorate your rooms, even if you do so with cheap engravings. The cheapest are far better than none. Have books, have papers and read them. You have more leisure hours than the dwellers in the city. Beautify your grounds with plants and flowers and vines. Have good gardens. Remember that everything of beauty tends to the elevation of man. Every little morning glory, whose purple bosom is thrilled with the amorous kisses of the sun, tends to put a blossom in your heart. Do not judge of the value of everything by the market reports. Every flower about the house certifies to the refinement of somebody. Every vine, climbing and blossoming, tells of love and joy.

THERE IS NO REASON why farmers should not be the kindest and most cultivated of men. There is nothing in plowing the fields to make men cross, cruel and crabbed. To look upon the sunny slopes covered does not tend to make men unjust. Whoever labors for the happiness of those he loves, elevates himself, no matter whether he works in the dark and dreary shops, or in the perfumed fields. To work for others is, in reality, the only way in which a man can work for himself. Selfishness is ignorance. Speculators cannot make unless somebody loses. In the realm of speculation, every success has at least one victim. The harvest reaped by the farmer benefits all and injures none. For him to succeed it is not necessary that some one should fail. The same is true of all producers, and of all laborers. I can imagine no condition that carries with it such a promise of joy as that of the farmer in the early winter. He has his cellar filled, he has made every preparation for the days of snow and storm, he looks forward to three months of ease and rest; to three months of fireside content: three months with wife and children; three months of long, delightful evenings; three months of home; three months of solid comfort.

IF FARMERS WILL CULTIVATE well and without waste; if they will so build that their houses will be warm in winter and cool in summer; if they will plant trees and beautify their homes; if they will occupy their leisure in reading, in thinking, in improving their minds and in devising ways and means to make their business profitable and pleasant; if they will live nearer

together and cultivate sociability; if they will come together often; if they will have reading rooms and cultivate music; if they will have bath rooms, ice houses and good gardens; if their wives can have an easy time; if the nights can be taken for sleep and the evenings for enjoyment, everybody will be in love with the fields. Happiness should be the object of life, and if life on the farm can be made really happy, the children will grow up in love with the meadows, the streams, the woods and the old home. Around the farm will cling and cluster the happy memories of the delightful years.

IT IS NOT NECESSARY in this age of the world for the farmer to rise in the middle of the night and begin his work. This getting up so early in the morning is a relic of barbarism. It has made hundreds of thousands of young men curse the business. There is no need of getting up at three or four o'clock in the winter morning. The farmer who persists in dragging his wife and children from their beds ought to be visited by a missionary. It is time enough to rise after the sun has set the example. For what purpose do you get up? To feed the cattle? Why not feed them more the night before? It is a waste of life. In the old times they used to get up about three o'clock in the morning, and go to work long before the sun had risen with "healing upon his wings," and as a just punishment they all had the ague; and they ought to have it now. The man who cannot get a living upon Illinois soil without rising before daylight ought to starve. Eight hours a day is enough for any farmer to work except in harvest time. When you rise at four and work till dark, what is life worth? Of what use is all the improved machinery unless it tends to give the farmer a little more leisure? What is harvesting now, compared with what it was in the old time? Think of the days of reaping, of cradling, of raking and binding and mowing. Think of threshing with the flail and winnowing with the wind. And now think of the reapers and mowers, the binders and threshing machines, the plows and cultivators, upon which the farmer rides protected from the sun. If, with all these advantages, you cannot get a living without rising in the middle of the night, go into some other business. You should not rob your family of sleep. Sleep is the best medicine in the world. There is no such thing as health without sleep. Sleep until you are thoroughly rested and restored. When you work, work; and when you get through take a good, long and refreshing sleep.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

LA PLUME, LACK'A CO., PA., NOVEMBER, 1882.

*The fitful breeze sweeps down the winding lane,  
With gold and crimson leaves before it flying;  
Its gusty laughter has no sound of pain,  
But in the lulls it sinks to gentle sighing,  
And mourns the Summer's early broken spell:*

*"Farewell, sweet Summer,  
Rosy, blooming Summer,  
Sweet farewell!"*

Ripening hang the nuts  
Upon the laden boughs; the clusters brown  
Of russet hazels; the spiked bursting husks  
Of polished chestnuts, and the teeming store  
Of mellow walnuts. Autumn-tide hath come,  
And pours from out her over-flowing horn  
Her welcome blessings on the grateful Earth!

THE MATTER upon our eleventh page is from Col. Ingersol's speech to farmers. Would it not be well if all his ideas were as sound as those?

THE SUBSCRIPTION PRICE of SEED-TIME AND HARVEST is 50 cents per year. We shall try to make the publication well worth that amount and shall expect subscribers to pay it. We earnestly invite every one of our present readers to exert themselves a little in our behalf. A good club can easily be raised in every neighborhood, and if you, reader, will collect the names and send them from your locality, we will pay you well for all your trouble. Particulars may be had upon application, or may be found in our October number.

**To Advertisers.** We believe our charge for advertising space in SEED-TIME AND HARVEST, 30 cents per line, to be as reasonable as that of any other journal in the Union, character and circulation considered, and many who have given it a fair test are of the same opinion. To make it pay its way at so low a subscription price we

should carry at least eight pages of advertisements. To any advertisers who think our price for space too high we will make the following proposition: We will insert for any reliable party for 3 months and compute the account at the low price of *ten cents per inch* for each 1000 copies actually mailed. We will at the end of the time give P. O. receipts and a sworn statement in proof of actual circulation if desired. This is a fair and honest offer and if it will not pay you to invest ten cents in an inch advertisement in 1000 copies of SEED-TIME AND HARVEST it will not pay you to advertise anywhere at any price. Will you give us a trial upon these conditions?

Please read the following testimonial:

Augusta, Ga, Oct. 11, 1882.

Isaac F. Tillinghast,

Dear Sir: As an advertising medium I have found SEED-TIME AND HARVEST equal, if not superior to any agricultural magazine published, and I advertise extensively. In subject matter it embraces the cream—practical, instructive, high-toned, moral.

Truly Yours. J. P. H. Brown.

*"God bless the man who sows the wheat,  
Who finds us milk, and fruit, and meat;  
May his purse be heavy, his heart be light,  
His cattle and corn, and all, go right.  
God bless the seeds his hands let fall,  
For the Farmer he must feed us all."*

HON. GEO. GEDDES thinks the time to apply plaster to clover is after the plants have made some growth, say after wheat harvest on clover sown in spring. He thinks that the plaster acts directly upon the leaf on which it is sprinkled. In support of this idea he claims to have selected a plant having three branches of very equal and uniform growth, each about four inches in height and standing out alike from the root. On the leaves of one of these branches a little ground plaster was carefully applied with a pen-knife. In three days rain came. In a few weeks the leaves and stalks of the plastered branch were nearly twice as large and rank as those on the same plant not plastered. Is not this subject worthy of further investigation?

*The spring-time longings are past and gone,  
The passions of summer no longer are known,  
The harvest is gathered, and autumn stands,  
Serenely thoughtful, with folded hands.*



## ANSWERS TO CORRESPONDENTS.

Your seeds came all right and are growing as well as they can this cold weather. We were particularly pleased with the potatoes, they were so large and nice.

Will you be so kind as to tell me how to get rid of the little red ants that eat up my balsams, or eat the buds off. They also destroy the small plants by hilling up around them at night; have tried salt, also hot water. Please tell me through SEED-TIME AND HARVEST.

Mrs. E. A. Case.

We should try the Dalmatian Insect Powder. We think it will readily destroy them as it has nearly all insects on which we have tried it. Simply sprinkle it around their runways.

EDS. SEED-TIME AND HARVEST:

I want to know, by return mail, how you use the Dalmatian Insect Powder on the cabbage worms.

I see in the FARM AND FIRESIDE, of June 15, 1881, that Prof. Cook, of the Michigan Agricultural College, says he used it, one table-spoonful to two gallons of water, sprinkled it on and found it better than to use it dry. Have you ever tried it that way? Please let me hear from you. Yours Truly,

Johnson Brownlee,  
Plymouth, Ind.

We have only used the powder in a dry state, sprinkling, dusting or blowing the dust where the insects resort. We have found it very effective in that way. You can easily experiment with it and may find better methods of applying it.

Galion, O., Aug., 1882.

I would ask you two questions. First: I have a watermelon hill, some vines are six or seven feet long. I pinched the ends off over a month ago and there is no sign of a watermelon on it. What is the fault?

Second: Have you cultivated the potato called Clarks No. 1. and what is your opinion of it? Have tried Bliss's Triumph for several years, but do not intend growing them any more, as they do not yield of any account, the largest being about the size of a hen's egg and but few in a hill. I planted 14 hills out of the one-half pound of the Belle that I received from you; will report when they are dug. I find two hills, however, that the foliage is altogether different from the rest. I will inclose two sample leaves, one of each kind. If they do well I shall order some for spring planting. What do you know of the Genesee Co. King and Peachblow? Hoping to hear from you, I remain, Respectfully Yours, C. F. Wernle.

We will "give up" the first question. Have seen vines act in that way but do not know the cause.

We have "grown" Clarks No. 1. Potato.

It is an early variety, of good quality, but it does not yield heavily with us, Beauty of Hebron will beat it.

See our answer to Mr. Tyler concerning your third question. Genesee County King and Peach Blow have had their day with us. Better sorts have taken their place.

Beaver Centre, Pa., July 16, 1882.

I would like to suggest the idea of every person who raises a patch of potatoes to commence as near the fourth of July, as possible on account of weather, and apply Paris Green to their crop of potatoes, and as often after as they find it necessary for the complete extermination of the bugs, for one month. I believe the simultaneous action of all concerned would result in the extermination of the pests, while with one acting at one time and another at some other time, gives the bugs a chance to propagate in some place all the time. Yours &c.,

H. W. Hackett.

This is a capital idea and if carried out would certainly conquer these pests in short order and at a less expense than that at which they are now merely held at bay. But it will never be done unless by national legislation. People in this world have to be compelled to act in their own best interests. Strange but true.

Neapolis, Ohio.

Will you please let me know where there is a good market for cabbage and potatoes, and oblige,  
Yours, &c.,

T. P. Meredith.

We should send our surplus to the nearest city. We do not think there is enough difference in the prices in different markets, to pay the additional freight which would be required to send them to distant points. Marketable cabbages are likely to be in good demand most any where for a year or two at least.

Keokuk, Iowa, Sept., 11, 1882.

Dear Sir: The sweet Corn received from you as the "Marblehead", seems of two sorts that do not mix in the ear, One of a red cob and color, the other white and like the Minnesota. In your new "Monthly" perhaps something might be said about it. The Minnesota has improved greatly, with me, by careful selection of seed ears.

Yours, G. O. Hilton.

This complaint has frequently been made before. This peculiarity is not confined to the Marblehead. The Amber Cream, Red River and some other kinds are similar in this respect. Some ears are nearly pure white, while others are of a dark amber color. These do not seem to mix in the ear



but when shelled look as though two distinct kinds of corn were mixed together. They are alike in size, shape, earliness and in every way except this single matter of color, which has been noticeable since we first received it from the originator. We suppose this variation is caused by striking back to the types of the varieties which were used in crossing to produce the new kinds. We have no doubt that if the darkest ears only were selected for seed for a few years it could be bred to that type. Or the lightest might be taken if preferred.

Hamlet, Mercer Co., Ill., Sept. 1, 1882.

Mr. Isaac F. Tillinghast;

I see by the last number of "SEED-TIME AND HARVEST," you are going to publish it monthly at 50 cents a year commencing with October. put my name down for one year and send me the first number as soon as issued. I intend to send you an order the coming fall or next winter and will then send the subscription.

The seed I got from you last Spring has done very well. The La Plume celery is just as good if not better than any other.

In the last number of SEED-TIME AND HARVEST you speak about rings of tin to enclose the stalks of celery when handling. I enclose ten cents; please send me one so I can get some made like it.

I hope you will have plenty of essays on celery culture, &c. Yours Truly, M. D. Dumbell.

There is no necessity of any exactness in the matter of the rings. Anything that will hold the leaf-stems together in an upright position will answer. A paper wrapped around and a string tied around that would probably serve nearly as good a purpose. See what is said about blanching with paper in the celery article in this number.

Dear Sir: Some time ago I received your SEED-TIME AND HARVEST and am obliged to you for having favored me with it. It is my intention to leave for Central America next January, with the object of embarking in agricultural pursuits, and therefore anything relating to the farm or field is highly appreciated by me. I shall in due time send you my order for seeds, etc., since your prices are very favorable as compared with City houses. But in the meanwhile you would greatly oblige me by volunteering some information in regard to poultry stock.

I would like to know how I could carry eggs on that trip. Will they stand it? The duration of the voyage may be from 15 to 20 days; and I am not at all sure whether on my arrival I shall have any hens ready to hatch. I think I should select Leghorns and Langshans. Are Langshans and so called Shanghais in this city, identical?

In regard to seeds I would like to know if they

have to be packed loose (in paper) or air tight (sealed tins). The climate in those sections is exceedingly damp, caused partially by the long continued rainy season.

By favoring with an early reply, you will greatly oblige, Yours Truly, F. F. Harman, N. Y. City.

There would be no trouble, we think, in carrying eggs upon this trip if they were well packed and carried by hand in a small basket. It would hardly do to pack them in a trunk or with household goods by freight. The only question is whether you would be repaid for the bother of caring for them as personal baggage.

We gave a description of the Langshans in our last issue, from which it will be seen that they are not the same as the old Shanghais.

No doubt seeds of most kinds could be carried in your trunk and kept on hand for a few weeks at least, or they can be sent in small parcels by mail as wanted. We shall be pleased to hear from you occasionally after getting settled in your new home.

Dalton, Mich. July 15, 1882.

Dear Sir: The Belle potato (1/4 bushel) I purchased of you in the Spring I think are mixed; about one-third of them produce a blossom of the color of Early Vermonts, the rest a blossom of a purplish color. I enclose a blossom of each color; which is the Belle, and what is the other from? They were not changed from the box you sent them in, but taken from it and planted directly, by myself. The 1/2 lb of Walt's Orange produces a blossom still different, a very dark purple. Please inform me about them, &c. Of course I well understand that where people are doing a large business, they must necessarily trust to others to perform a portion of the labor and mistakes often occur. Very Truly Yours, H. S. Tyler.

This peculiarity in the Belle is nothing new. We have spoken of it in our catalogue and in SEED-TIME AND HARVEST several times. It is a fact that there are apparently two different kinds of potatoes among the Belle, yet we have been unable during the three or four years which we have had them to separate them. Whether it is the result of a sport, or whether it is due to getting what was really two different varieties mixed when first produced from the seed-ball, we have not fully determined. but we do know that this peculiarity has always been observable since the variety was first named and sent out, which was from our establishment. We much regretted this, knowing that many purchas-



ers would be disappointed, but thought it not wise to withhold so great an acquisition from the public on account of so small an objection. The truth is one is as much the Belle as the other. They are very similar in shape, growth of vines, general habits and cooking qualities, but vary perceptibly in color of the tuber and color of blossom, the darkest colored tuber producing the whitest blossom. Some have claimed that the lightest colored potato out-yields the other, and some have claimed that the darker red is the best in cooking quality, but we are not sure that these claims are not more fancied than real. Those of our patrons who wish may try to separate them and make two kinds of potatoes. We have not been able to do it though we have tried for three or four years. It seems that if one kind is carefully selected some hills will sport into the other.

The Walls Orange has a dark purple blossom. If any other appears among them it is spurious.

How and when do you plant potato seeds?

B. W. Foust, Harmansburg, Pa.

If you will plant and care for potato seeds exactly as though they were tomatoes, we think you will be tolerably successful. You will have to watch the young plants pretty closely when first set out or the Colorado Potato Beetles will ruin them. It takes two or three years to fully establish the characteristics of a new variety, or rather to determine from its characteristics whether it is valuable or not, although if of very great value it will show it the first year.

I see a request in SEED-TIME AND HARVEST for a preventive of Bean and Pea Weevils. I will give mine. Place the beans in a vessel and pour coal oil on them; stir thoroughly, then put them in the sun for a few days and you will have no further trouble with them.

I am much pleased with your magazine.

Mrs. V. A. M., Hampshire, Tenn.

Sabetha, Kan., Aug. 15, 1882.

Dear Sir: Tell E. J. Hollister if he will put his peas in boiling water just before he plants, he will have no weevil in them. Also, sulphur dusted over cabbage plants just as they come through the ground will protect them from the cabbage flea. It will also protect melon and cucumber vines from the striped bug. I have used it for the last ten years and it never failed with me.

D. W.

Greenville, Ky., June 29, 1882.

Dear Sir: I had to get all my seed beans from northern growers until two years ago. Now, to save them, I pour scalding water over them. As soon as covered pour it off. The next spring they are just as nice as when pulled off the vines. I have tested this two years and am going to test it with peas this season. As I am an unfortunate cripple and consequently very hard pressed, if this is "worth a hat loaded down with gold dollars," I will accept, thankfully, as big a one as you may be willing to fill.

Respectfully, Thos. D. Baird.

Summit, Miss., Aug. , 1882.

I will tell you my remedy for the cabbage worm. It is common salt; take the finest salt you have, sprinkle it on when the dew is on the cabbage and it will kill the worms. With many wishes for the success of SEED-TIME AND HARVEST, I remain,

Yours Truly, Andrew F. Ard.

Several communications remain in our question box to be answered in our next issue, at which time we shall give some reports from some of our customers concerning new vegetables planted this year.

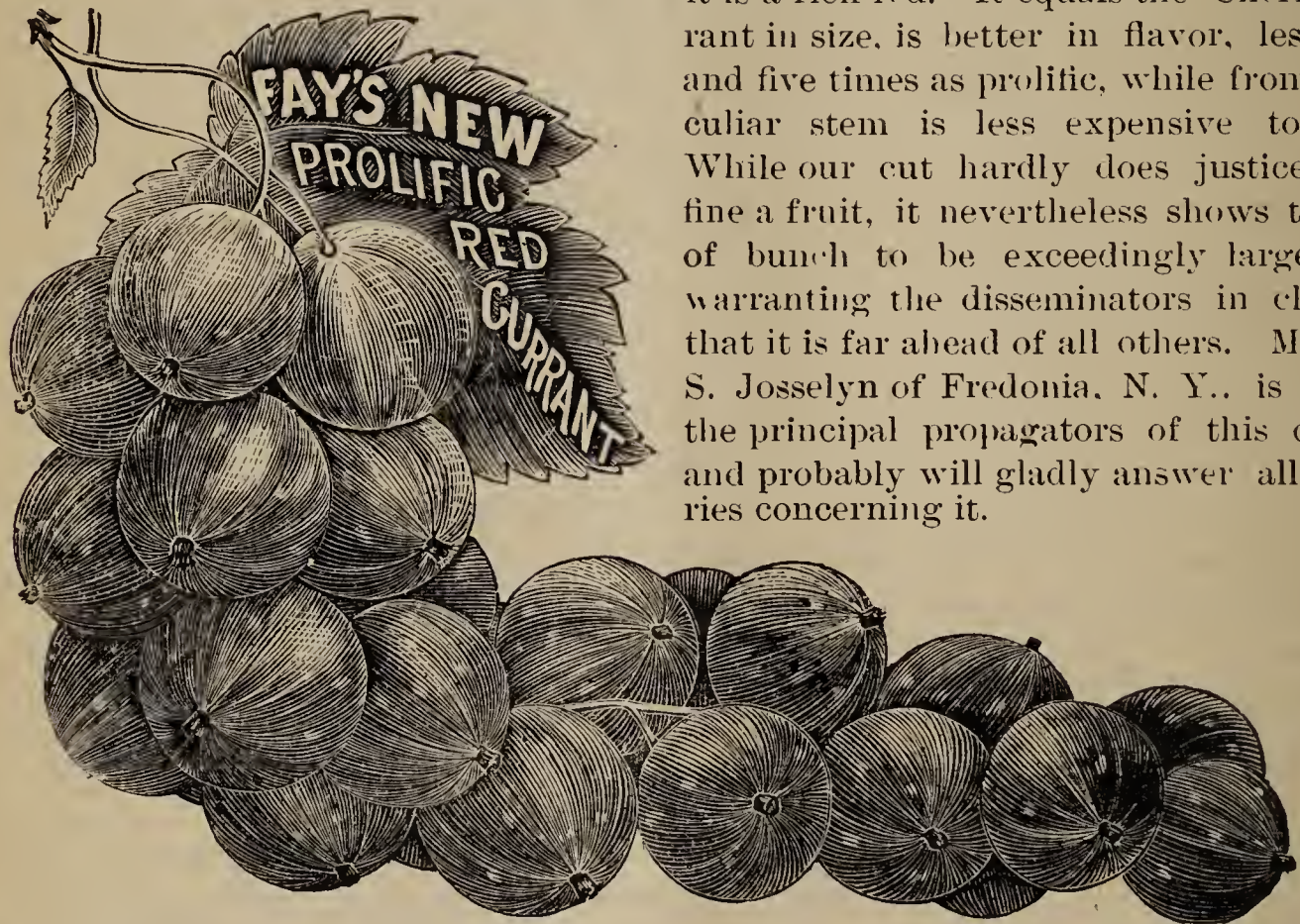
### Cleaning Carpets.

In all our own experiments we have found nothing so safe and serviceable as bran slightly moistened, only *very* slightly, just sufficient to hold the particles together. In this case it is not necessary to stop and clean the broom every few minutes. Sweeping the carpet after the bran has been sprinkled over it not only cleans the carpet and gathers all the dirt into the bran, but keeps the broom clean at the same time. If too much dampened, aside from injuring the carpet, it makes the work harder, because the bran becomes very heavy if very damp. The bran should be sifted evenly over the floor, and then the room swept as usual. The bran scours and cleanses the whole fabric, very little dust is made while sweeping with it, and scarcely any settles on furniture, pictures, etc., after the work is accomplished, because every particle of dirt, thread, bits of paper, or lint is gathered up into the mass of bran that is being moved over the floor, and so thoroughly incorporated with it that it will not be easily separated. Carpets swept in this way retain very little dust, as will be plainly demonstrated whenever they are taken up to be shaken.—*Domestic Monthly*.



## FAY'S PROLIFIC CURRANT

The statement has been made many times recently, through the agricultural papers, that "no improvement has been made in the currant during the last twenty years." but the favor shown Fay's Prolific Currant by fruit growers and fanciers appears to be a full refutation of the erroneous idea.



This valuable addition to our small fruits was originated some fourteen years ago by the late Lincoln Fay of Portland, Chautauqua Co., N. Y., from a seedling of the Cherry and Victoria Currants, and is the result of an endeavor to produce a Red Currant that would combine the size of the Cherry Currant with the prolific bearing qualities of some other variety. In color it is a rich red. It equals the Cherry currant in size, is better in flavor, less acid, and five times as prolific, while from its peculiar stem is less expensive to pick. While our cut hardly does justice to so fine a fruit, it nevertheless shows the size of bunch to be exceedingly large, fully warranting the disseminators in claiming that it is far ahead of all others. Mr. Geo. S. Josselyn of Fredonia, N. Y., is one of the principal propagators of this currant and probably will gladly answer all inquiries concerning it.

## NOTES AND GLEANINGS.

IT IS A QUESTION whether most farmers are not attempting too much. The crops largely grown require more labor than formerly, especially potatoes. The time spent in keeping a field of potatoes clear of bugs would do much toward cultivating it, if it could be so used. The result is small crops on a large acreage, when the reverse would be much more profitable. I have this year six acres less of potatoes than a year ago, but hope to have more bushels. Next year I shall plant four less than this year, and still get more potatoes and certainly more profit than from the larger acreage. "There is profit in all labor," is a saying as old as Solomon, but where so much of the labor has to be hired, and the laborers boarded, a great deal of the profit must be parted with before it gets into the farmers' pocket.

W. I. F.

AN OHIO CORRESPONDENT of the *Country Gentleman* describes and highly recommends the use of strong light bushel boxes in marketing early potatoes. He says they are a great convenience and save a good deal of labor. The size is 13 by 16 inches, and  $13\frac{1}{4}$  inches deep all inside measure. The ends are made of  $\frac{3}{4}$ , and sides and bottom of  $\frac{1}{2}$  inch light wood, such as bass or white-wood, planed on both sides. The corners are bound with galvanized hoop-iron, and hand holes are cut in each end. They hold just a bushel when level full and cost about \$25 per 100.

For marketing early in the season while the skins slip, the potatoes are carefully laid into the boxes, and the boxes put on a spring wagon and covered from the sun. The potatoes are left in the boxes until sold. In this way they reach the consumer almost as nice and fresh as though dug out of his own garden. There is a growing demand for nice things and farmers must keep up with the demand if they want to make money.



Special Correspondence of SEED-TIME AND HARVEST.

### A TRIP ACROSS THE CONTINENT.

[NOTE. As the subject of emigration is one of the uppermost ones in the minds of thousands of people at the present time, the following notes from a representative of SEED-TIME AND HARVEST who recently started on a trip across the continent as a common emigrant, will no doubt be of general interest, as he will tell just how he was treated, what he saw and what it cost him to see it. These notes will be continued in several issues of SEED-TIME AND HARVEST. Eds.]

ELMIRA, N. Y., Tuesday, Sept. 26, 10.30, P. M.—After bidding La Plume good-bye, we changed over at Nicholson to the 7 o'clock train and after a very pretty run by moon-light, arrived at Elmira at 10.5, P. M. We were transferred over to the Erie road in a buss and after getting our through tickets which cost \$76.00 apiece for San Francisco, we crossed over the street to the Delevan House and put up for the night. We expect to start out on the 5.35 train in the morning. We are tired with the excitement and worry of the getting off from home, but hope to be rested by the six hours sleep we will have. We have a very fine room and bed, but it may be the last bed we will get this side of San Francisco, so good night or we will not get the worth of what it costs.

ELMIRA, Wed. Morn., Sept. 27, 5 o'clock. All right this morning and expect to be off again in half an hour. We had plenty of room in the car to this place from La Plume, two seats apiece if we wanted them in the best car except the palace car. They have given us first-class tickets to Council Bluffs only; have limited the time to Sept. 29th, and no stop over allowed. Emma slept well and says she feels well this morning. I feel rested but did not sleep any although I had a good bed.

BUFFALO, N. Y., Wed., Sept. 27th, noon. Arrived here safe and well. The cars were crowded a short distance this side of Elmira. The fields show the effects of drouth, and the roads are very dusty. We are in the Lake Shore cars and have secured seats, and are waiting for the cars to start. The train leaves at 1.30, P. M. We had our first lunch from the basket this morning and shall take our dinner from it while we wait.

ERIE, Pa., Wed., Sept. 27, 5 o'clock, P. M. Here we are back into Pennsylvania once more! Crops look better here. It rains a little to-day. We get glimpses of the lake occasionally. We are nearly 24 hours on the road now, have made 340 miles and are still in our own state, though we have seen the shores of Canada across the lake at Buffalo. We have not got into the smoking car yet, and this car is good for nearly 500 miles more, or to Chicago. An agricultural fair is going off here, and they crowd the car but we keep our seats.

LA SALLE, Ill., Thursday, Sept. 28, 2.30, P. M. We are now 100 miles west of Chicago on the Rock Island and Pacific Railroad. We got a seat apiece at Chicago in a second class car and are very comfortably situated. There are six besides ourselves in this car going to Seattle. A lady in the next seat used to live in Whatcom and knows most of the La Conner people. She is from Maine, and will be with us to San Francisco and Seattle. This is a limestone and coal region on the Illinois river. We shall soon leave this river and 80 miles more will bring us to the Mississippi. We are still well and are getting quite used to travelling.

DAVENPORT, Iowa, Sept. 28, 7 o'clock P. M. We crossed the Mississippi just in time to see it before dark. We are in a nice car but it is getting too crowded; hope it will thin out before we want to go to sleep. This ends our first 1000 miles in 48 hours from home. It rains hard and the night is dark. We are well but feel tired. There are lots of babies and little girls on the train. We wish the car was not quite so nice, and we had a little more room.

DES MOINES, Iowa, Sept. 29, 3 o'clock, A. M. We awoke this morning at the Capital City of Iowa. Had a very good night's rest. We each had a seat after leaving Iowa City. We are now 358 miles west of Chicago, and 142 miles east of Omaha. It is not yet daylight so we have not seen any of Iowa yet. We are well and all right so far. The rain is over, but it is still cloudy. Our next large city will be Omaha. The weather is warm and we are comfortable without blankets.



COUNCIL BLUFFS, Iowa, Sept. 29, 9.30 A. M. We arrived here safe and sound this morning and are in the hands of the Union Pacific R. R. Co., at their emigrant depot. Everything is clean and well regulated, and they will take good care of us from this place on through. The Southern Pacific competition stirs this road up and makes them do as well as they can by us. In fact we are better looked after than first class passengers who have to look out for themselves. The Emigrants are of the better class: the poorer class cannot go so far. There are better dressed and just as good, if not better, looking people than we in the crowd. Shall get our last meal of warm victuals here, [for 25 cents. All imaginable supplies are kept on hand, that we could be supposed to need on the journey, at cheap prices. Emma has gone to bed to get some rest, as our train does not leave till 5, P. M. We are well pleased with second class and emigrant fare so far, with the exception of one division of the Chicago, Rock Island and Pacific Road, where they crowded us and tried to make us ride in a smoking car. From Davenport, Iowa, to this place, we rode in a first class car and had a whole seat each from Iowa City here. Rested and slept as well as we could in a R. R. car. Most of the passengers are going to Cal., but lots of them go to the Sound. The weather is cloudy and foggy, a little chilly but not cold. Have just had a good dinner, the first at a table since we left home. We now really commence on our journey. Guess we will stand it all right.

(To be continued.)

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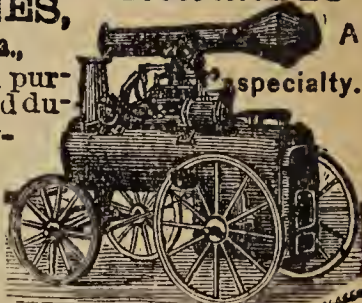


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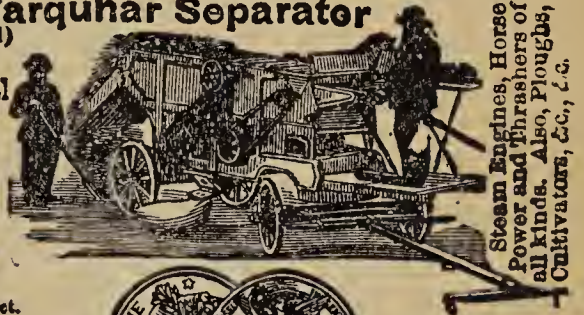
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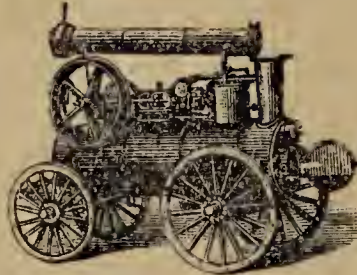
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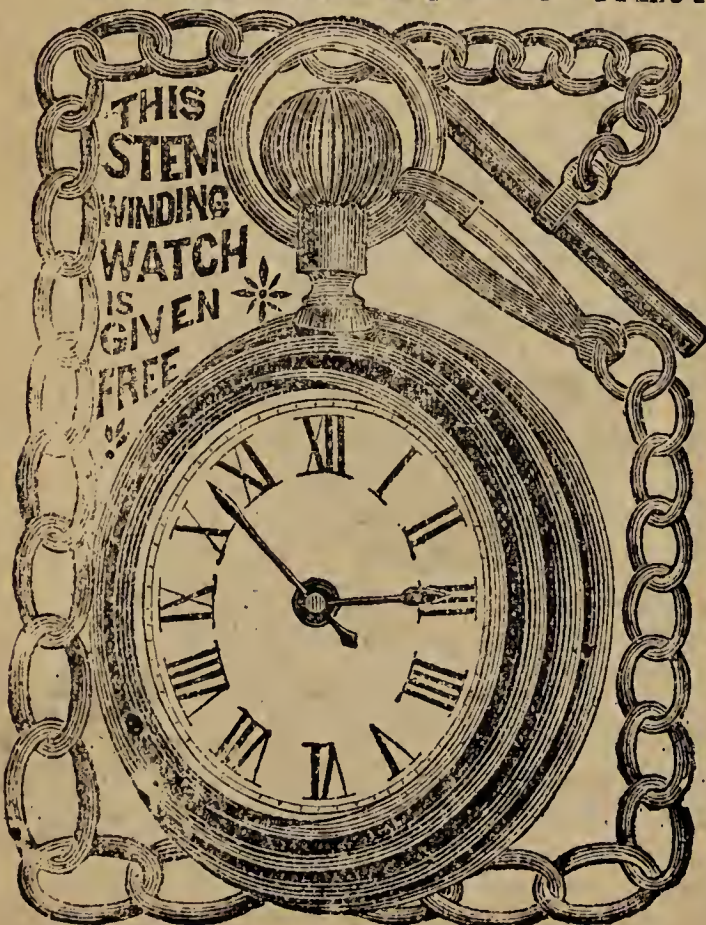


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I will send you on receipt of 35 cents, one of my Princess Needle Caskets; it contains one hundred needles, four papers of large-eyed needles. The Casket is manufactured of fine velvet and beautifully ornamented with gilt. Send stamp for terms and 35 cents for sample and go to work. You can make **from \$10 to \$15 per day**. Money refunded, if not as represented. Other agents' goods in quantities. Address **E. S. HARDING,** 11-13 22 N. Filtaw St. Baltimore, Md.

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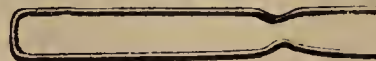
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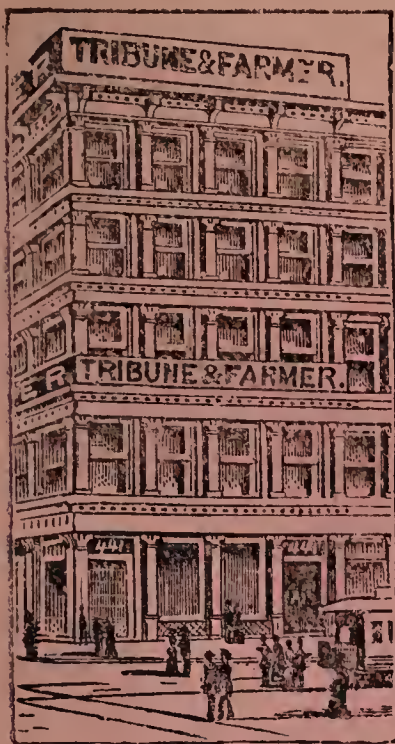
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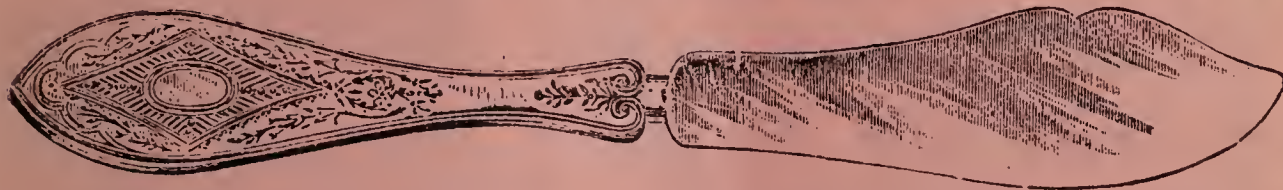




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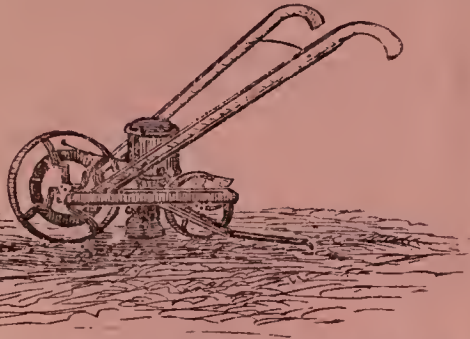


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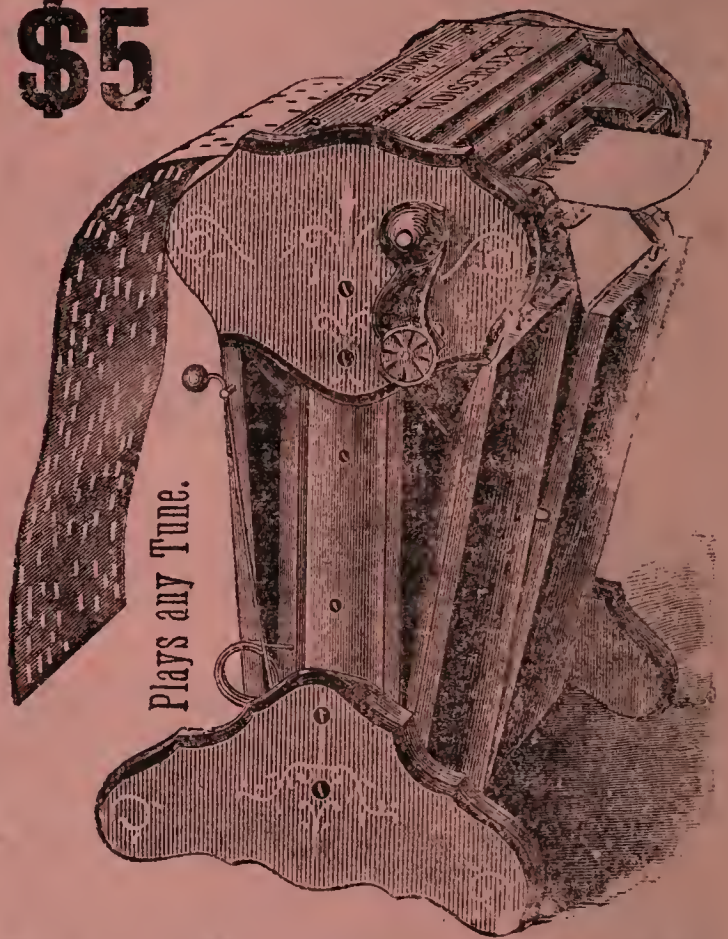
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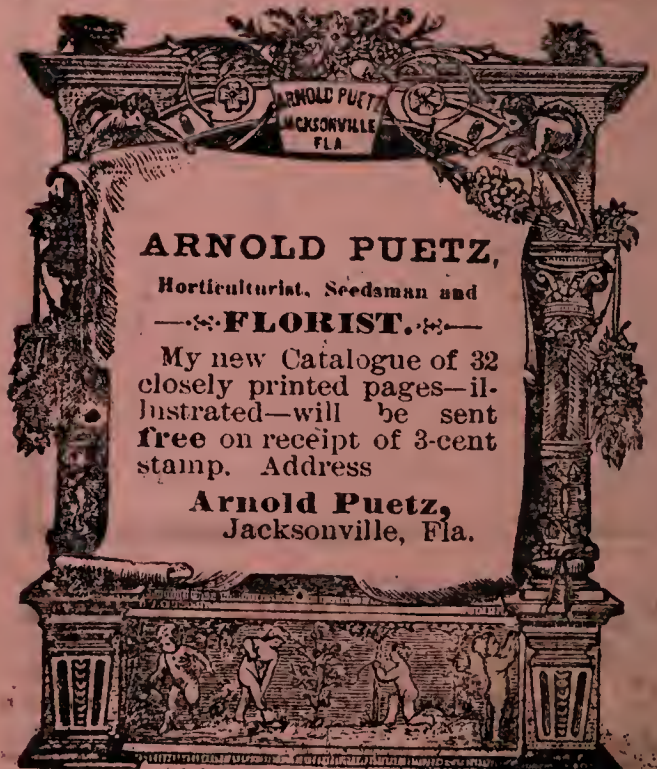
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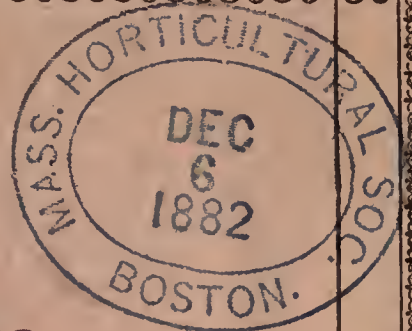
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Number 14.



# Seed-Time and Harvest.

DECEMBER 1882.



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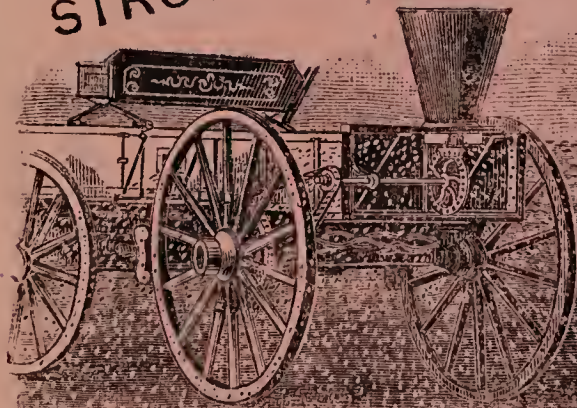
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

NO. 14,

DECEMBER,

1882.



## The Woodward Arbor Vitæ.

Some years since a Mr. Davenport, while gathering wild or native Arbor Vitæ trees in the state of Maine, found a solitary tree which appeared to be of a different habit from others near it, and so much unlike the others in its manner of growth that he carefully preserved it separate from the rest of those he was gathering. From this

tree he propagated others and after a time some of them fell into the hands of Mr. Jacob W. Manning of Reading, Mass., who saw in them the possibilities of a novelty which should become of very great value as an ornamental evergreen. He accordingly commenced propagating them extensively and for several years exhibited specimens at the exhibitions of the Massachusetts Horticultural Society. These specimens attracted much attention and in 1871 the Gar-



den Committee of that society visited the Reading Nursery and awarded the Society's Silver Medal to Mr. Manning for introducing a New Dwarf Arbor Vitæ, and permitted him to name the same. He accordingly named it *Woodward*, in honor of one of his sons.

Our cut, which is no fancy sketch but taken from a Photograph, shows the size of the trees by the side of a spade. They are very dwarf and require no pruning. For the border of walks in large yards it is a superior plant as it takes many years to attain much size. Mr. Manning informs us that plants 20 years old are not four feet high. It is also used to mark the lines of town lots where no fences or large hedges are wanted and looks beautifully when set alone. It is easily transplanted, has a globular or egg-shaped head and brilliant green foliage. Taken altogether it is one of the most remarkable varieties of Arbor Vitæ.

### The "James Vick" Strawberry.

BY C. A. GREEN, CLIFTON, N. Y.

A few Rochester horticulturists were invited to visit our place July 5th last, to see the new strawberry James Vick, in bearing. The day being rainy we gave up hopes of their coming, but the noon train brought W. C. Barry, late president of the Nurseryman's association, P. C. Reynolds, long secretary of Western New York Horticultural society and horticultural editor of the *American Rural Home*, the Vick Brothers, representing the firm of James Vick, John Charlton, the disseminator of the Pocklington grape, and the veteran fruit grower and propagator, Josiah Salter.

They were first shown rows of the new strawberry from plants set late the previous fall, growing in the same bed with Manchester and Bidwell. The new berry showed twice the fruit of either Bidwell or Manchester, and more vigor of plant. The party were next shown a plat of about one-fourth acre, not manured for many years, common farm soil in the midst of a field of twenty acres of fruit, on which the new strawberry had been permitted to form wide and thick matted rows for the purpose

of multiplying plants, from the whole of which plants had been dug a few months previous, tearing and loosening the roots of those remaining. The soil was packed hard and very weedy, showing evidence of neglect, yet under such adverse circumstances, which would lead one to expect no fruit worth gathering, the plants were thickly studded, and the rows fairly ablaze with large, beautifully and evenly colored, firm and shapely berries of superior quality, and from the bed was subsequently picked the largest yield of fruit ever gathered from any variety on our fruit farm. Mr. W. C. Barry said that of all the new strawberries he had tested this was the most promising. He described the color as bright scarlet turning to crimson, surface glazed, seeds on surface, season medium, quality good. All the party expressed themselves as highly pleased with the display of fruit, and ate it with a good relish. We heard no criticism, and indeed, there could be none. The plant was vigorous, with large glossy dark green foliage, the blossoms hermaphrodite (or perfect), the fruit handsome, large, luscious, firm, and in great abundance. We tested them under this rough treatment purposely. A nursed plant in a manure heap is no test of a variety—place it under hardships and see what it will accomplish has been my theory.

The party returned to Rochester and were invited to visit a small plantation there of the *James Vick* fruiting under hill culture, the rows lying between bearing grape vines, not the most desirable position as the grape roots must have occupied the entire soil. Here a sight met their eyes that they could not have anticipated, and such a display as probably was never before made by any strawberry on earth. The stools were large and vigorous, and around each was a pyramid of ripe berries piled one on another like a walled fort, and so thickly together a bug could hardly have crawled into the enclosure made by the fruit without climbing the barricade. Berries on every plant were "uniformly of good size," as was remarked by Secretary P. C. Reynolds. The fruit stems were long and stout, but could not sustain the great burden imposed upon them. (often 12 to 18



ripe berries on one fruit-stem,) thus the fruit rested one berry on another in a circle about the plant, as will be shown in an engraving now making by a careful artist.

The news soon spread among the lovers of fruit of the city of nurseries, and early next morning our leading pomologists, men whom we all delight to honor, came to inspect the newest wonder. After these came the younger enthusiasts, the foremen and others who desired to see for themselves if half were true that had been told them. It was known that we intended to introduce the *James Vick* this season, but a gentleman who has charge of one of the largest nurseries of the country said we would not have enough plants to supply the demand, as he thought the large firms could sell 100,000 plants of the *James Vick*. Mr. Vick and Mr. Charlton also thought the supply of plants would be wholly inadequate, and advised holding the *James Vick* over until another season. Mr. Charlton said that as soon as the Norfolk, (Va.) and other large strawberry planters knew of the value of the *James Vick* for market, and shipment, the demand would be something wonderful. But as our plans had been made we thought it not best to change them.

We received the following from the Geo. A. Stone Nursery, Rochester, N. Y:—  
"Dear Sir: I saw the *James Vick* to-day at Rochester. It would certainly seem to possess *all desirable qualities*. It is very prolific, firm of texture, and of fine flavor."

Geo. S. Wales, the Bannockburn nurseryman, said he had seen nothing equal to the *James Vick*.

Secretary P. C. Reynolds, of Rochester, N. Y., considers the quality of *James Vick* *very good*, and well suited to his taste, which, I will add, is exceedingly critical. With possibly one exception he has not seen anything to equal it in productiveness. He considers it more productive, larger and of better quality than the Manchester.

The roots indicate great vigor, the largest we have seen on any variety. Mr. Peter B. Mead remarked that they were something unusual. We sent fruit of the *James Vick* to Mr. J. T. Lovett, over 300 miles distant, and he reports that it came in fine condition. As a shipping variety it is parti-

cularly desirable. The points of merit of the *James Vick* are briefly:

(1) Fine quality, unusual vigor, and hermaphrodite (or perfect) blossoms.

(2) Color, form and firmness of berry, which approach the ideal. No white tips, no coxcombs.

(3) Ability to stand on the vines a week after ripening, without becoming soft, or rotting, or losing quality or much lustre. Instead of softening it shrinks a trifle, and becomes firmer than when first ripe.

(4) Uniformly large size, and productiveness unequalled by any other variety. Two hundred and eighty berries were counted on one average plant, and from one row about 100 feet long nearly two bushels of berries were gathered.

#### Observations of Rev. Gabe Tucker.

You may notch it on the palin's as a mighty resky plan,  
To make your judgment by the clo's dat kivers up a man;  
For I hardly needs to tell you how you often come er cross  
A fifty-dollar saddle on a twenty-dollar hoss.  
An' wukin' in de low-groun's you diskiver as you go,  
Dat de fines' shuck may hide de meanes' nubbin in a row!  
I think a man has got a mighty slender chance for Heben  
Dat holds on to his piety but one day out of seben;  
Dat talks about the sinners wid a heap o' solemu chat  
An' neber drops a nickel in de missionary hat;  
Dat's foremost in de meetin-house for raisin' all de chunes,  
But lays aside his 'ligion wid his Sunday pantaloons!  
I neber judge o' people that I meets along de way  
By the places whar dey come frum an' de houses whar dey stay:  
For de bantam chicken's awful fond o' roostin pretty high,  
An' de turkey-buzzard sails above de eagle in de sky;  
Dey ketches little minners in de middle ob de sea.  
An' you finds de smalles' 'possums up de bigges' kind o' tree! —Scribner's Magazine.

#### How Women Keep "Expense Books."

It is a touching sight to see a woman begin to make up her expenses, having firmly resolved to put down every cent she spends.



so as to find out how to economize and where all the money goes. Procuring a small book, she makes a due entry, and on the Monday after the first Saturday, in which her husband brings home his pay, she carefully tears the margin off a newspaper and with a blunt pencil, strikes a trial balance something in this way:

John brought me home 48 dollars and 40 cents, and one dollar and 43 cents I had is 49 dollars and 93 cents, and one dollar and nine cents I lent Mrs. Dixon is 50 dollars and 93 cents—but, hold on, I ought not to enter that, because when she returns it it'll go down. That was \$49 and 93 cents, and what have I done with that?

Then she puts down the figures, leaving out the items to save time—a process which enables her to leave out most of the items to where a round sum is involved, on the supposition that they have already been put down. As thus:

Six dollars and 14 cents for meat; and ten cents for celery; and ten cents on the street cars; and a bad five-cent piece I got in exchange; and 81 cents I paid the milk-man, who owes me 19 cents—that's three dollars; and fifteen cents at church; and the groceries—they were either 15 dollars and 60 cents, or \$16 and 50 cents, and I don't remember which they were, but I guess it must have been 15 dollars and 60 cents, for the grocer said if I'd give him a dime he could give me half a dollar, which would make even change, and I couldn't, because the smallest I had was a quarter; and two dollars and 72 cents for mending Katie's shoes, which is the last money that shoemaker ever gets from me; and ten cents for celery—no, I put that down.

Finally she sums up her trial balance sheet and finds that it foots up 64 dollars and 28 cents, which is about 15 dollars more than she had originally. She goes over the list several times and checks it carefully, but all the items are correct, and she is just about in despair when her good angel hints that there may be a possible mistake in the addition. Acting upon the suggestion, she foots up the column and finds that the total is 44 dollars and 28 cents, and that according to the principles of arithmetic she ought to have five dollars

and 65 cents. Then she counts her cash several times, the result varying from one dollar and 40 cents up to one dollar and 97 cents, but then she happily discovers that she has been mistaking a two-dollar-and-a-half gold piece for a cent, and remembers that she gave the baby a trade dollar to cut its gums with. On the whole, she has come within 86 cents of a balance, and that she says, is close enough, and she enters in one line of the account book, "Dr.—By household expenses," so much, and is very happy till she remembers, just after going to bed, that she has omitted two dollars and 72 cents for her husband's hat.—*Exchange.*

### Marketing Fruit.

Commission merchants and dealers in fruits in our city market see the advantage, which many farmers and fruit growers cannot be made to realize, of sending only the best and most perfect fruit to market. In passing through the market recently a dealer remarked,—“we often wish that we could have the company of those who send fruit to market. Here are several barrels of apples waiting for the cart to take them to the dump—Why? Merely because the sender sent too much. His ‘Early Harvest,’ ‘Primate,’ or ‘Alexander’ trees bore well; he shook off the fruit, gathered it up, good and bad, bruised and sound into barrels and sent it to market. It had no sale; day set in and the commission man can only get rid of it at the dump, and has a bill against the sender for expenses. Had one-third of this fruit been kept at home and fed to the pigs or ground to make cider for vinegar, the better two-thirds would have had a ready sale. Many, no doubt, think that we harp needlessly every year upon this matter of assorting fruit. The caution is not needless and we shall continue to repeat it until we see a better state of things in the market. A peck of poor fruit will spoil the sale of a barrel. The price is not fixed by the many good specimens, but the few poor ones bring the whole lot down to their level. Every one who sends fruit or other produce to the New York or any other market, should know that it is sold by its appearance.”



### The New Pure White Bouvardia.

AMONG the new and rare winter flowering plants, the Bouvardias hold a high place in the esteem of all lovers of a fine window garden.

Our cut represents the new, pure white, double flowering Bouvardia, ALFRED NEUNER, named in honor of the eminent florist of the firm of Nanz & Neuner of Louisville, through whose politeness we are permitted to give this excellent illustration. This grand novelty is universally conceded to be the finest new plant brought out for years. Its flowers are pure waxy white, and perfectly double.

They are rather larger than those of the single variety and each floret resembles a miniature tube-rose. It is a constant bloomer with proper care, and a great ornament to any collection.

### Hints on Orchard Management.

In three years I improved the production of my fruit trees from fifteen to two hundred bushels, by treating them in the following manner. I first reduced the top one-fourth, then in the fall I ploughed the soil as well as I could, it being quite rocky, and turned a short furrow toward the tree. As I worked from them I let the plow fall a little lower, and when between the trees I allowed the plow to run deep, so that the water would settle away from them in the spring. I hauled a fair quantity of coarse manure, pulverized it well, and marked out hills, manuring each hill. I planted corn and beans and harvested a nice crop of corn, beans and pumpkins. The following spring I repeated the same form of culti-



vation and harvested the second crop of corn, beans and pumpkins, which paid me to satisfaction. My trees began to grow very fast and that fall I harvested 70 bushels of very good apples. The following spring I manured for the third time; planted it to potatoes, which grew very large but rotted very badly. I made up the loss, however, by harvesting 200 bushels of large and matured fruit. I changed the production of a Yellow Bellflower tree from three-fourths of a bushel to seven bushels, and sold them for \$1.25 per barrel, which I think a very good return for my labor. From my experience I am of the opinion that most trees have too much top for the amount of roots, and a deficiency of nourishment for producing a developed fruit. I like fall or winter pruning. Always cover the cut with grafting wax or a thick paint. After removing the limbs by thinning out the center of the tree it has a tendency to make it grow broad. Too many varieties are bad and hardy stock is all that is needed.—R. W. S. *In Home Farmer.*



### Sheep on the Farm.

Fifty or sixty years ago every farm, however small, had its little flock of sheep to supply the family wool and the material for knitting the family stockings. In almost every farm-house the hum of the wool-wheel, which manufactured the yarn, could be heard at some distance from the house, and everywhere stockings were being knitted for family use. They were not very fine, but they were thick and warm, and wore two or three times as long as the present machine-made article. These little flocks of sheep were always the pets of the farm. Their feed cost next to nothing. Pasture-fields which cattle could no longer graze were just what the sheep preferred. Every hole and corner they nipped clear of grass; and in winter the poorest hay and a little salt kept them in good condition, while the lambs not only kept up the stock but furnished all the mutton required in the family. The knitting machine had not yet made its appearance, and each family which could not afford to supply its wants from the costly foreign manufactured articles was forced thus to provide for itself. The little girls in a family were taught to knit as soon as they were able to handle the needles, and hence the cost of the supply of stockings for the family was quite inconsiderable—that is, it took no ready cash from the farmers pocket. Now the keeping of sheep is extensively pursued, especially on large farms where portions of the land are hilly, rocky, and unfit for cultivation. Here sheep thrive finely, and where systematically managed, are the most profitable branch upon the entire farm. The best breeds are used, or ought to be—that is, for both wool and carcass; and we may add that, just as sheep husbandry is better and better understood, the more extensively will it be introduced. Our western and northwestern farmers, where this branch is rapidly increasing, beyond other sections, are abundantly satisfied that in many respects a flock of sheep is the best helper, not only in filling the purse, but in keeping up the condition of the land without really any extra ex-

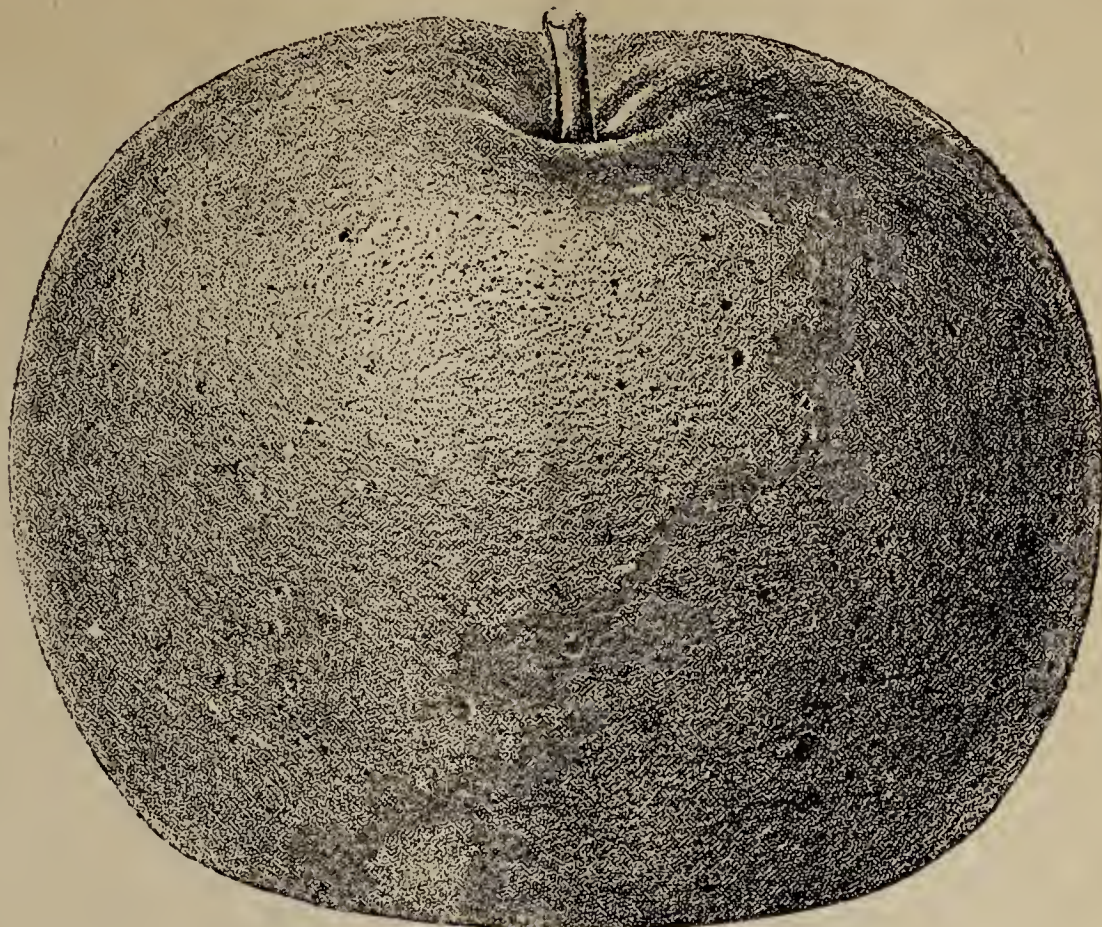
pense, that is within reach of the husbandman. One thing should, therefore, be remembered by farmers who have suitable land at their command; that they make a very great mistake, and submit to annual loss of more importance than they imagine in the absence of a good and beautiful flock of improved sheep browsing upon their hills.

### Details of Celery Culture.

BY H. T. STANARD, UNIONVILLE, MO.

After many years of experimenting, I have adopted an excellent plan, and if there is a better one it will be gladly received. My plan is to sow early peas on good, rich, well prepared ground, in March, in drills twenty inches apart. (Any early crop will do, but I prefer peas.) In the latter part of April the Celery seed is sown in drills between each alternate drill of peas, where the celery is to be grown. I deem it very important that the seed be sown where the celery is to grow, but if plants must be transplanted, great care should be taken to set them the same depth as they were in the seed bed, and the roots spread out in their natural position and cultivate of en. The peas will shade the celery some, but it will be a benefit to it. The plants should be thinned to five inches in the row, and not sheared off as some recommend. When the crop of peas is cleared off, and the celery is 6 to 8 inches high, about the middle of August, run a shallow furrow on each side of the row, (not so near as to injure the roots,) turning the earth from the celery, now fill the furrow with well rotted manure, this can be done very handily by driving the loaded wagon astride the row. One man can fork it out, and another man with a rake or prong hoe place it in its proper place in the furrow and around the plants. This will benefit the crop by adding a fertilizer and assist in retaining the moisture. If there is not room at the end of the row to turn the wagon, the manure can be applied by a man with a wheel-barrow, if it is near by. When the plants are sufficiently advanced in growth to need support, they can be held in proper place by narrow strips of boards, about two inches





THE IVANHOE APPLE.

wide on, each side of the row, supported by pairs of stakes with a strip of lath nailed on top. All imperfect and straggling stalks should be pulled off, and none allowed to grow but straight, thrifty stalks. The stalks of each individual plant should be kept close together, and not allowed to get entangled with the one next to it, this may be accomplished by placing the hand between the plants near the ground, and raising it directly up and separating the stalks carefully. The crop needs a good deal of water, and will be greatly benefited by artificial watering. By October 1st that portion of the crop needed for early use should be banked up, "to blanch". This should be done when the earth is not too wet, by placing a bank of earth on each side of the row as high as the stalks of celery, leaving only the leaf uncovered, observing in the operation to keep the stalks of each plant close together, and packing the earth firm to the stalks. In about three, or four weeks this will be ready for use. Before freezing weather the crop should be stored in trenches in a dry place. The trench should be 10 inches wide and deep enough so that the celery may stand in its natural position with the top a little below the surface of the ground. Place the roots on the bottom

of the trench, the plant standing upright, and cover the roots with soil, the same as it was when growing, put it quite close together, but not bruise it. Cover the trench with boards to keep dry, and straw, and earth, to keep from freezing. Cover lightly at first, and increase the covering as the weather gets colder. It should be kept as cool as possible and not freeze. Some persons store it in a cellar, but I prefer the trench. The celery will blanch in about eight weeks.

The exact time of performing any of the operations can only be determined by the condition of the crop, the time here stated is only an approximation.

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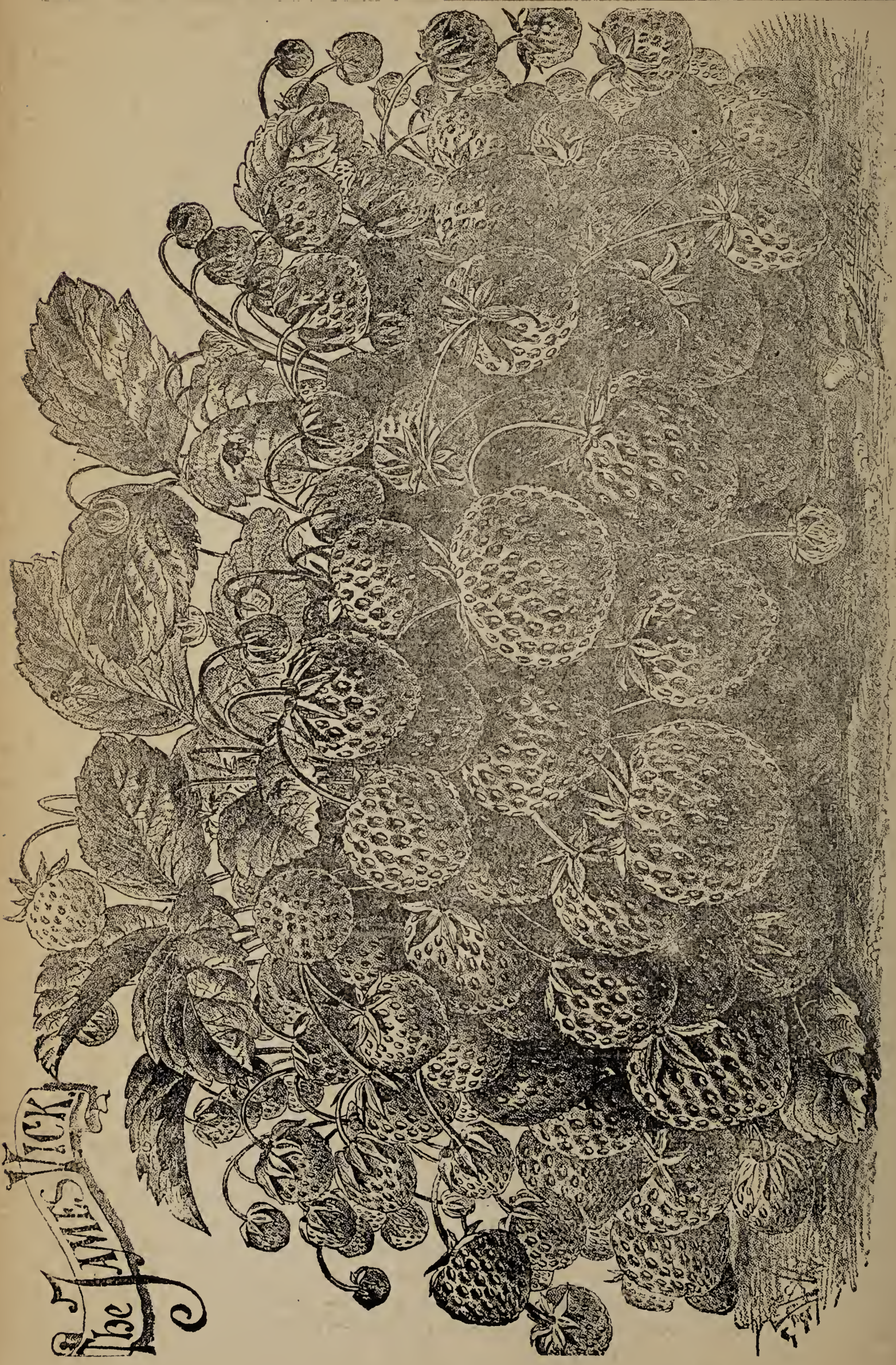
### THE IVANHOE APPLE.

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Our illustration represents finely a new apple, the *Ivanhoe*, which is being introduced by Mr. R. H. Haines, Moorestown, N. J. It is claimed for it that it has good size, shape and color, and that it will keep well. It is a deep golden yellow when mellow. The tree retains the fruit very late, the apples hanging on the tree long after frost. It produces fruit when quite young. See Mr. Haines's advertisement in another place.



SEED-TIME AND HARVEST.





## Vegetable Notes.

In regard to wintering celery, it has long been the practice of many, if not most, of the Boston gardeners to secure their celery crop in a pit made in the following manner: They excavate a pit about eight feet wide, as long as they need, throwing the earth from the excavation on each side. Then through the centre of the pit a row of posts is set to which a ridge-pole is nailed. The celery is packed in the pit tightly in the same manner that the New Yorkers fill their ditches with it. When filled, boards are cut long enough to reach from the ridge to the sides of the pit. The earth from the excavation is banked over the roof so as to exclude frost, but the ends are left with a loose stuffing of straw until the weather gets severe, when they are boarded up and banked. I tried this method once and found that, in our climate, it will be necessary to add posts and a light plate to support the lower edges of the boards, as, in my case, there came a soft spell with heavy rains in January, and the sides of my celery pit gave way, letting the whole roof down in a mass and causing the loss of some thousands of celery roots. With the addition of a board at the sides to prevent this disaster, I think this is the most perfect and convenient plan for wintering celery grown in rows. The boards forming the roof of the pit are not to be nailed, and the whole thing can be uncovered and the lumber stored away to dry in summer.

From my experience last summer I am inclined to agree with Mr. Watson that flat culture of potatoes is best in our climate. I had a patch of Beauty of Hebron potatoes, that during the favorable weather in early summer grew with such wonderful rapidity that it did not receive the final earthing up with the plow which our other potatoes received. The result was a crop of potatoes from a small piece of ground that measured so many bushels that I have almost feared to tell visitors the amount for fear I would not be believed. In fact, but for this plot of ground, less than one hundred feet square, we would not have had potatoes enough to supply us till Christmas. The

variety, of course, may have had something to do with it, as I find the Beauty of Hebron one of the most productive sorts, and it has the further advantage of making very few small potatoes. As to growing lettuce in frames without mats, Mr. Watson may rest assured that it can, in our latitude, be done with ease, provided always that the frames are well aired and the plants not allowed to grow fast and get tender until February, after which date the frames may be kept a little closer. In our framing ground here, all our frames are provided with tongued and grooved shutters regularly used. Outside the frame yard and in more exposed situations, we have a number of frames for which we have no shutters and on which no covering is used. In all these frames the principal crop is lettuce, and to-day, if there is any difference, the lettuce in the frames that have no cover is better than that in the frame yard. My impression is that frost gets into a cold frame more under the sides than by the glass, if that fits closely, and I therefore pay more attention to banking the sides than to covering the top. Of course, in hot-beds the case is different, as there we cover the glass to prevent radiation of heat from within. To day it has been dark and sleeting, and the shutters on our frames are covered with ice, and so they have been left on. The uncovered frames have had the advantage of daylight. This state of things occurs so often during the course of a long winter, that the shutting in from sunlight more than balances any advantage in the shutters. As hot-beds are rapidly becoming a thing of the past, I think that mats and shutters on cold frames will soon be dropped. If it were possible to exclude frost altogether by this means there would soon be use for them, but I have never yet seen frost altogether kept out from a cold frame in our severest weather. Even in our cauliflower frames, which are built with brick walls and sodded nearly to the top, the frost gets in with the shutters on almost as readily as without them. In fact, it seems to me that frost gets through the brick walls as quick or quicker than into a board frame well banked with earth.



Passing through the flower garden late in September my attention was drawn to what seemed to be a weed in a flower bed. On examination I found it was a vigorous seedling tomato plant. I lifted and planted it in one of the houses on the edge of a bed of smilax. It was trained up during the winter and grew rapidly, but did not set fruit early like the plants grown from cuttings. It is now (March 9th) over eight feet high and has about fifty tomatoes on it, which will probably ripen from April 1st on. It is still growing with remarkable vigor and sets a cluster of fruit for about every six or eight inches of growth. I have no doubt if it is cared for and protected from spiders it will continue to fruit all summer. This plant has been grown in a bed without bottom heat, and, until it attained its present height, was a good distance from the glass in a temperature at night of not more than fifty degrees. If it had been planted close to the front of a house and trained up under the glass in a night temperature of sixty degrees it would perhaps have come in as early as the pot plants, which never were subject to a lower heat than sixty degrees. The plants grown in pots were Acme; the plant grown in the bed was a volunteer seedling and may be a later sort than Acme, but the green fruit resembles Canada Victor.

Another winter I propose to grow enough tomatoes in pots to keep a supply of the fruit from January to March, when the necessities of our flower garden require every inch of our space for bedding plants. I believe the time is not far distant when tomato houses will drive the poor watery tomatoes from Bermuda out of our markets, as any one who eats a fine Acme grown under glass will hardly want the Bermuda and Southern stuff at one-fourth the price.—*W. F. Massey, in Am. Farmer.*

#### NOTES AND GLEANINGS.

IF THERE is any one question which is more rapidly engrossing the minds of the great public to day than all others it is certainly the subject of Temperance. We believe the time is rapidly approaching when the

American People will see the dire necessity of acting in their own best interest and as a whole arise and free themselves from the greatest curse that God ever permitted a people to fetter themselves with—the curse of lawful damnation—the curse of intemperence. We are glad to see that many of our exchanges make frequent allusions to this all important subject. The *American Rural Home* fitly says:—"The time may be riper than men suppose for launching a People's Temperance or Anti-monopoly Ticket, and floating it into popular favor. A great mass of voters are sick of crimination and recrimination, factional abuse, accusations with or without cause, the endless endeavor of one party to build itself up by pulling another down. They demand, this large number of voters do, an issue that can be seen and measured. That there is no such issue between Republicans and Democrats in this state, they know full well, and if some other party offers a live, vital question of difference, whereon they can array themselves, they will accept it, and step outside the old lines without so much as saying farewell. The season of political revolution is close at hand, or our discernment can not be trusted. Said a reverend Chicago editor to a politician the other day,—'There is a Temperance tidal wave coming, over a mile high, and it is only a mile off: can you swim?' The flood of popular assertion will soon sweep up and down this country, with a furore very unfortunate for those placemen and trimmers who have not learned to swim. There is a good chance, now, for such to take to their boats."

THERE is a money value to an attractive home to say nothing of its influence in molding the minds of those who are fortunate enough to be possessors of them. The faculty of making a desolate and worn out place a really attractive one is an art possessed by few. It may be called tact, for such this natural faculty seems to be. We have seen old farms so transformed by the re-building of crooked fences, a little underdrainage here and there, the buildings repaired, painted or whitewashed, trees properly planted about the house, that it would seem that hundreds of dollars had



been expended, whereas the amount for labor and material would barely exceed the cost of two or three acres of land. Every attraction in the way of shade and fruit trees, a neat and grassy lawn, neat fences of whatever kind, and rows of shade trees along the roadside, pays. Aside from this, to every true man or woman it is an endless source of satisfaction to be the possessors of an attractive home. The man of wealth, or the one in moderate circumstances, who beautifies his home in the manner indicated, is in reality a public benefactor. It is neither very costly or expensive to beautify the home. Where there is a will, a way will soon be provided. Nor should it be forgotten that it is a duty we owe to the rising generation, that our homes be made more beautiful, home-like and attractive by every means within our power.

—*Southern World.*

OUR FRIEND Atkinson of the *Farm Journal* has issued a Proclamation. As it contains more solid wisdom than average documents of the kind issued by higher magnates, we cheerfully present it to our readers, who may be benefitted by it just the same as though it was written for them. He says "there is a great deal of extravagant living just now in this country. The times are good and a great many people are making money. We are buying largely from abroad and as a nation we are spending more than we earn. Vast numbers of our people, who have been prospering for the past three or four years, are acquiring the habit of expensive living. This habit will grow in the case of many into recklessness of expenditure that will ultimately result in financial overthrow.

So we are moving steadily on towards another panic. How soon we shall reach it remains to be seen. The student of history learns that we have a business upheaval once in every ten years. The last one came in 1873; the next is therefore due next year. But it will hardly come so soon. The last was such a crusher that the next will probably be postponed awhile. How long, is the question for the prudent to consider. This will be a good year for farmers; that is, prices of their products will be high. So

of next year and probably the next. Times will be good until the crash comes. The sun shines; now, farmers, make hay. Be prudent, be economical. keep down expenses, buy little and sell all you can. Make every acre do its work, and clear off that mortgage. Your time has now come; this is your inning, and if you do not make your books balance on the right side of the ledger by the time the bottom again drops out it will be your own fault, not ours."

**MARKETING POULTRY.** Charles W. Idell, produce and commission merchant, in New York, says:—"Poultry, to insure highest market prices, must be well fattened, crops empty when killed; killed by bleeding, but do not remove the head; nicely and well picked; skin not broken or torn; entrails should not be removed; thoroughly cooled but not frozen. Pack in boxes, with a layer of clean straw (rye straw is the best) between each layer of poultry, in the same posture in which they roost. Mark each box plainly showing what it contains. Send invoice by mail. Shlp to reach your agent about the middle of the week. They should never be sent so late as to arrive on Saturday.

## THE FLIGHT OF SUMMER.

So GENTLY did sweet Summer pass me by,  
 So lovely was the smile she cast,  
 Lulled by her beauty I  
 Scarce knew she passed.

I only caught a gleaming in the west,  
 That must have been her trailing gown,  
 When night, unwelcome guest,  
 Came swooping down.

O, little star, thy pale and quivering face  
 Proclaims that thou didst never see  
 Another with her grace  
 And melody.

Beneath some other sky that loveliness  
 Shall float upon the waving wheat,  
 And other ears shall bless  
 Those carols sweet.

So haste, ye winds that blow where'er ye list,  
 Unseen through all the changeful years,  
 And tell her that he kissed  
 These falling tears.

Fair star, the hour is late; our dreary lot,  
 Come, let us strive to drown in sleep—  
 I in my lonely cot,  
 Thou in the deep.

—*Samuel M. Peck, in Boston Transcript*



# Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

LA PLUME, LACK'A CO., PA., DECEMBER, 1882.

*The melancholy days are come,  
The saddest of the year,  
Of wailing winds, and naked woods  
And meadows brown and sere.*

—No more the airy hammock swings,  
Across the cottage porch,  
No more we'll fly, as though with wings.  
Upon the strand to scorch.  
No more the sunflowers gaily blow  
So graceful and petite,  
For now we dream of ice and snow  
And country sausage meat.

WAS YOUR candidate one of the "elect?"

READER, WE WERE COUNTING ON YOU for a club of four at least. Have you sent them in yet? This is a good month to get them.

ADVERTISERS will bear in mind that copy for advertisements must be sent by the 15th. It actually requires two weeks to run our edition through the press.

DOES NOT YOUR SUBSCRIPTION expire with this number? If it does and you do not wish to lose a number or two you should renew immediately. And while you are at it, send along the names of four, at least, of your friends. One dollar will foot the bill.

**Seeds at Wholesale.** In addition to our General Descriptive Catalogue—which will be issued in January, and which will be by far the finest and most complete one ever sent out by us—we shall, about December 1st, issue a Wholesale List for Dealers, Market Gardeners and planters who purchase in large quantities. If you wish to purchase \$10.00 worth or over of *Reliable Seeds at Honest Prices* you are requested to send for our Wholesale List.

*Delightful Summer! then adieu  
Till thou shalt visit us anew,  
But who without regretful sigh  
Can say adieu, and see thee fly?*

SAMPLE COPIES of SEED-TIME AND HARVEST will be sent to any one who requests the same.

A PRESS OF BUSINESS has compelled us to neglect our "Answers to Correspondents" in this issue. We hope to be able to give that department more attention in future.

MR. TILLINGHAST'S CATALOGUE of Reliable Seeds at Honest Prices will be issued in a few days, and will be sent to *all* his old customers. Others desiring it will please send their address on a Postal Card.

IF YOU RECEIVE a copy of SEED-TIME AND HARVEST that you have not ordered, don't be afraid to take it from the post office thinking a bill will be presented for it. We do not send out any copies "on trust" to any one and if you are so fortunate as to receive a sample copy by mail, you may feel assured that it is a present to you, and we trust that you will carefully examine it and see if it is not worth your while to subscribe for it.

## PRIZE CONTEST AWARDS.

After a careful examination of the lists which have been received in competition for the prize of \$20 in gold, it has been decided that the \$20 will have to be divided between the following eight persons, they all having sent in good lists, and no one of them enough better than the others, to warrant us in awarding them the whole prize. The numbers are those given them in the former contest which this was to decide. A more detailed report will be sent to all the competitors, with a correct list of the words, which occupies so much room that we thought it unnecessary to print it here. The number of words in the correct list is **238**.

### Successful Competitors.

- 134 Uri Shumway, Austinburg, Tioga Co., Pa.
- 191 H. Owens, Lumber City, Pa.
- 65 J. E. Brown, New Hampton, Orange Co., N. Y.
- 137 John G. Proctor, Meridian, Jeff. Co., Neb.



82. H. L. Van Dusen, Hinckley, Medina Co., O.  
 149. O. O. Van Dusen. " " "  
 83. Miss. Sadie B. Wicks, Humboldt, Allen Co., Kan.  
 173. Bertha M. Holgate, La Plume, Lack'a Co., Pa.

The above persons will therefore receive \$2.50 each. A number of other lists were very nearly perfect. Among those containing but two or three errors are the following:—A. Grigg, Hamilton, Ont.; Geo. F. Guier, Baltimore, Md.; F. L. Bailey, La Plume, Pa. The lists showed very thorough painstaking work upon the part of many competitors, and we sincerely regret that so many of them must suffer disappointment. We have no doubt but that all of them did work enough to earn the prize, and the most painful part is to deny them it, but of course we cannot pay all who tried. We sincerely hope that they derived pleasure enough from the work to repay them for the trouble.

### OUR CLUBBING LIST.

#### The Best American Periodicals For Country Readers, at Lowest Prices.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST. (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

American Agriculturist.....	\$1.10
American Rural Home.....	1.00
Agricultural Epitomist.....	.40
Country Gentleman.....	2.00
Demorest's Magazine.....	1.75
Farm and Garden.....	.35
Farm Journal.....	.35
Farm and Fireside.....	.50
Fruit Recorder.....	.75
Floral Cabinet.....	1.00
Gardener's Monthly.....	1.75
Green's Fruit Grower.....	.20
Household.....	.90
Harper's Magazine.....	3.50
New York Tribune, Weekly.....	1.25
New York Tribune, Semi Weekly.....	2.20
Poultry World.....	1.00
Practical Farmer.....	1.00

Rural New Yorker.....	2.00
St. Nicholas.....	2.75
Scientific American.....	2.75
Scribner's Monthly (Century).....	3.60
Toledo Blade.....	1.25
Vick's Monthly.....	1.00
Western Plowman.....	.50

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

AT no time within the past ten or fifteen years has the outlook for market gardening been so favorable as at present. Public works are employing all the men in all sections on full time at high wages. While this will give day laborers little time to grow their own garden truck, it will give them plenty of money with which to buy. Quick sales at very remunerative prices may therefore be expected for 1883.

MONTHLY ROSES, ESPECIALLY the tea scented are beautiful window plants. They need rich soil, thorough drainage, frequently washing of the foliage with a fine rose syringe, as even a temperature as possible, carefully guarding from draughts of cold air, and smoking with tobacco if the green fly makes its appearance. They should have the morning sun, but be shaded from the afternoon sun when it has become powerful.

THE FARMER HAS BEEN elevated through science, and he should not forget the debt he owes to the mechanic, to the inventor, to the thinker. He should remember that all laborers belong to the same grand family—that they are the real kings and queens, the only true nobility.

"I AM MUCH PLEASED with your SEED-TIME AND HARVEST. I cannot help expressing my gratification of your way of dealing with new varieties, setting forth the defects as well as their merits. It is this confidence which prompts me to write to you. I am very well pleased with the Belle. It is all you claimed for it.—Josiah Hawkins, Southport, Connecticut."

"I received the seeds all right and in good order. There were twice as many seeds as I could buy here for the same money. Tillinghast for me in future. All are well pleased. Many thanks for promptness and liberality.—Thomas H. Trice, New Providence, Tennessee.



From Our Special Correspondent.

*A TRIP ACROSS THE CONTINENT.*

COUNCIL BLUFFS, Ia., Sept. 29, 4.30, P. M.  
We are now loaded on an emigrant train, ready to start. They have cars now made on purpose for emigrants. It is a sort of sleeping car with berths for sleeping. I think it is a great improvement over the old way. They sort the people over and class them according to their class in life. We are fortunate enough to get into the best car and have very pleasant companions. Have bought mattresses for bed, and with our blankets think we will be very comfortable. We now make our real start on our journey.

GRAND ISLAND, Neb., Sept. 30, 7.30, A. M.  
We started out of Omaha last night at six o'clock. Had a good view of the Missouri river and of Omaha, but it grew dark soon after we started and we went to bed. Emma and I had an upper berth and our partners in same section took the lower. It was rather warm and close at first, but the motion of the car soon got up a circulation and we were very comfortable after a little while and slept quite well, the best we have yet since starting. Our car is really a sleeping car, arranged on purpose for such emigrants as we. We have four cars attached to a freight train. There are four car-loads of Jersey cattle, pure Alderneys, on the train, going to Cheyenne. The man in charge of them milks them and gives the milk to the emigrants. We are getting along splendidly and feel the best this morning that we have yet. We just finished breakfast; we made coffee on the stove. There is a stove in each end of each car and we can cook all we like. If we keep on we will get into a palace car yet, and I expect emigrants will be carried in Pullman coaches yet. We passed Valley Station in the night and have not seen much of Nebraska yet. We are now 150 miles west of Omaha; 1440 miles from home. Have hardly made a hole in our lunch yet. The pressed chicken was likely to spoil, so we gave what we had left to the poorer emigrants who were glad to get it. We are now on the great dead-level prairies and crossing

the plains. We have a good supply of books and papers and have pleasant company. The view is as far as eye can see each way, and only little houses and barns, poplar groves, straw and grain stacks and corn-fields. Farmers are threshing grain with twelve-horse powers along the road.

COZAD, Neb., Saturday, Sept. 30, 3, P. M.  
We have just passed the 100th meridian. By my time, which I haven't changed since leaving home, it is 5 o'clock; two hours difference. We are in the stock-growing region. It is too dry here for crops to flourish. The Platte Valley widens out here as far as the eye can reach. Only prairie, lone herds of stock, and men's cabins are in view. We shall soon come to buffalo grass, and more and better stock. We now meet whole trains loaded with cattle going east. We are on the shady side of the car: the sun comes in very warm on the south side. The North Fork of the Platte river is in plain view and also the South Fork. We shall soon cross the North Fork.

ANTELOPE, Neb., Oct. 1, 8 o'clock, A. M.  
Daylight found us at Sidney, and we are now approaching Cheyenne, Wyoming Ter. We are 451 miles west of Omaha and about 2000 miles from home. So we have gone one-half of our distance: we feel quite well and had a good night's rest in our berth. We bought three cushions at Council Bluffs for a bed and have one blanket to cover us. Although this is a dry climate here, there is a drizzly damp air this morning, cloudy and foggy. We are in the centre of the great stock-growing country and approaching the desert. There is not a tree or a house in sight, although the view is bounded only by the horizon. Wire fences run from the rail-road back miles and miles, out of sight. Fields are fenced in so large that we cannot see across them. The landscape is brown, except where fires have blackened it, and dotted by herds of cattle. It is now two nights and a day and part of another day since we entered Nebraska, and we are not through it yet. We shall soon enter Wyoming and will get to Ogden, Utah, at 2, P. M., on Tuesday. We can eat, sleep, read, write, talk, or view the country. We shall soon be a mile above the sea level and half way up the Rocky Mountains.



About one-half the people in our car are going to California, and the rest to Oregon and Washington Territory. We just came to the first prairie dogs. This being the third time I have crossed the plains, I do not feel the enthusiasm one gets at first sight. It is still grand and too immense to fully take in and measure from a railroad car. One should go on foot or with a wagon to realize the true extent of Uncle Sam's Pasture lot. Good-bye to Nebraska. Will next write from Wyoming Territory.

RAWLINS, Wyoming Ter., Oct. 2, 9. A. M. We reached Sherman, the highest point (8000 ft.,) about sun-set last night. There we got out and Emma took a run up and down a hill to see a monument that had lately been erected in memory of Oakes and Oliver Ames, the engineers who located the route of the road over the Rockies. The monument is a massive pile of rock and looks like pictures of the Pyramid, only it has no steps to climb up. On each side are sculptured busts of the men in whose honor it is erected. It don't begin to compare in size or beauty with any one of hundreds of natural rock piles in sight. Some persons on the train who have weak or diseased lungs, found it very difficult to breathe in the thin air. Emma felt better here and could run up hill without getting out of breath. One gentlemen got all out of breath going up to see the monument; another man thought he was dying and his wife cried all the time we were on the summit. Others were affected differently; the most of us felt very lively and jolly and the passengers were full of talk, laugh and sociability. We reached Laramie City at dark, after passing over the Dale Creek bridge, 130 feet high. The passengers kept up lively talk until late at night and extreme good nature prevailed through the car. Whether it was in the air, the scenery, or because we were on the Pacific Coast, I don't know, but there was certainly a great change in every one. Daylight found us at Edson, 680 miles west of Omaha, and in the alkali plains. Then we cross the North Platte again at Fort Steel where there are soldiers, and next stop for breakfaat at Rawlins. 710 miles west of Omaha.

(To be continued.)

## AMONG OUR EXCHANGES.

THE POPULAR SCIENCE MONTHLY, published by D. Appleton & Co., N. Y. City, has an exceedingly interesting table of contents for November. Dr. Frank H. Hamilton talks upon "Sewer Gas", one of the most perplexing problems for Physicians and Architects. He sums up the subject clearly and indicates the only safe ground to be taken. "The Law of Human Increase," by Dr. Nathan Allen, is a paper of great importance. The address of Dr. Siemens on "Science in Relation to the Arts" is especially instructive in its discussion of electric and gas lighting. "Scientific Farming" by Dr. Manly Miles, is a timely and well digested article of great value to the practical agriculturist. Many other interesting articles make it one of the best scientific journals of the day—equally good for the farmer, artisan, or professional man. 50 cents per number, or \$5.00 per year with SEED-TIME AND HARVEST.

THE NORTH AMERICAN REVIEW for December contains two symposiums of exceeding great interest to American students and reformers. One on the Health of American Women, by Dr. James R. Chadwick, Mrs. Elizabeth Cady Stanton and Dr. Dio Lewis; and the other on Success on the Stage, by John McCullough, Madame Modjeska, Joseph Jefferson, Lawrence Barrett, Maggie Mitchell and William Warren. Altogether the number worthily crowns the volume. Published at 30, Lafayette Place, N. Y., at 50 cents a number, or with SEED-TIME AND HARVEST, \$5 a year.

THE LADIES' FLORAL CABINET for November, opens with Wm. Cullen Bryant's poem "November," engraved and illustrated followed by articles on flowers, ferns, &c., by such well-known writers as Chas. E. Parnell, Peter Henderson, Wm. Falconer and others. Every lady will relish the pages devoted to "Christmas Gifts, which can be made at home." Other excellent articles make the number a most valuable one. The publishers will send a specimen for half price (6 cents) to any one who mentions this paper. \$1.25 per year. Address, Ladies' Floral Cabinet, New York City.

OUR YOUNG PEOPLE, Springfield, Ohio, is a new candidate for public favor, and if the first number which is just issued is an earnest of what the publishers intend for their readers in the future, we can say that "Our Young People" will have a journal worthy their patronage. The Mechanical execution is of the best, and the excellent engravings in illustration of the text are an ornament to any publication. Published by Mast, Crowell and Kirkpatrick of *Farm and Fireside*, which is a guarantee of its excellence. \$1.00 per year, or with SEED-TIME AND HARVEST for \$1.25.

ARTHUR'S HOME MAGAZINE continues its monthly visits as of old and we always welcome its coming. Its bright and cheerful pages are filled with interesting matter which is as refreshing as a shower in a hot summer day. While the contents are varied to please all tastes, the moral tone is such that no one can read a page in it without being made the better by it. \$2.00 per year. T. S. Arthur & Son, Publishers, Philadelphia.



THE AMERICAN CULTIVATOR still holds its own as one of the foremost agricultural periodicals of the age. Fresh, crisp and spicy in its editorials, thoroughly practical in its advice to farmers and stock-breeders, and fully trustworthy as to its market reports, everything in it betokens a thorough knowledge of the needs of the American cultivators and is fully entitled to the generous support which it receives. Published weekly at Boston, Mass., at \$2.00 a year.

GLEANINGS IN BEE CULTURE, monthly, published at Medina, Ohio, contains much of interest besides that which is "devoted to Bees and Honey." Every page has something of interest, and while some of the theories of its editor are occasionally upset, the fact he appears to be in dead earnest in every good work he undertakes, even if at a loss to himself, makes the reader feel a friendly interest in all he says and does. He who takes GLEANINGS a year can't stop. \$1.00 a year.

THE COTTAGE HEARTH, published monthly at Boston, Mass., is a finely illustrated magazine of home arts, and home culture. It contains more reading of practical domestic worth to the home circle, than any other magazine of its price with which we are acquainted. Portraits and sketches of distinguished men, superior home music and poetry, choice floral articles, &c., fill each number. \$1.50 per year, or with SEED-TIME AND HARVEST at \$1.60.

RURAL RECORD is the name of a sprightly rural magazine published at Chattanooga, Tenn.. If a paper of 16 quarto pages filled with articles for the family circle, farm and plantation, children and household generally, by the best writers, (besides the covers,) make a good paper, then this fills the bill. The people of our Central Southern States should give it a hearty support. \$1.00 per year, or with SEED-TIME AND HARVEST, \$1.25.

THE POULTRY MONTHLY comes filled with just such articles as will be of most use to the breeders and raisers of poultry, pigeons and other pet stock. It is finely illustrated each month, a prominent feature being photographic portraits of specimens of the various breeds of poultry as bred by the best fanciers in the country. It is published by the Ferris Publishing Co., Albany, N. Y., at \$1.25 per year, and is a model of typographical neatness.

THE AMERICAN BEE JOURNAL, published weekly at Chicago, Ill., is regarded as the standard authority on "scientific bee-keeping" in the United States. The best writers on the subjects involved, contribute to its pages the results of their labors. Every progressive bee-keeper who wishes to know all about what is being done in the honey producing world, should be a subscriber. \$2.00 a year, or with SEED-TIME AND HARVEST \$2.25.

CITY AND COUNTRY, published at Columbus, Ohio, comes out enlarged to 24 pages, having added two pages to its Agricultural Department and two more pages of advertising. Its editorial department is equal to the emergency, and in general appearance and make-up it will compare favorably with many of the higher priced monthlies. 50 cents a year.

#### NOTES AND GLEANINGS.

WHILE THE QUALITY of commercial fertilizers has been raised more than 100 per cent, and the price has receded in a like proportion, yet the relative cost of the purchased article, and that which may be obtained at first cost at Nature's laboratory by the cultivation of nitrogen-absorbing plants, and a greater economy in caring for the manures of a farm, exhibit still to wide a difference and the cultivation of clover is therefore making a most rapid advance. This is noticeable in the potato growing districts where a clover sod is held of first choice, an old potato raiser informing me that he held that there was fully 100 pounds of potash available for his potatoes in every acre of clover.—J. G., Western Reserve, O.

WE HAVE several times called attention to the importance and also given hints as to the best manner of accomplishing an improvement in seed corn. The idea is so plainly and concisely given in *The American Cultivator*, that we copy it:— "In order to make permanent improvements in corn, and one upon which every one can rely, first obtain the best possible seed; then plant half an acre of well fertilized land, and be sure to give the corn the best of culture; examine it very carefully till the tassels show themselves clear of the stalk, then remove all the tassels from that of inferior growth, allowing none but the very best to remain. The pollen of the tassels left will be sufficient to fertilize the whole. The advantage in this method is to make certain that the whole is impregnated with only the very best seed. An ear of corn in itself may be to all appearance perfect but having been fertilized by pollen from a less perfect stalk it may produce when planted and grown a more imperfect specimen. But if having been fertilized by pollen from the best of stalks only there is a degree of certainty that the perfect ears will produce corn as productive and as perfect as the seed from which it is produced. By pursuing such a course for a few seasons, not only will the corn be greatly improved, but with a certain degree of safety it can be warranted that the produce from the seed



will be as perfect as the seed itself, provided that it is planted on suitable land, well manured and well cultivated. These latter points must receive proper attention, since the tendency of corn under certain circumstances is to tiller, which is not as favorably considered in corn as in grain. In the case of corn such growth is known as suckers. By removing the tassels from part of the growth an increase in the growth of suckers will be favored. As such growth might produce imperfect ears or produce tassels, it will be expedient to remove every sucker as it shows itself, or a variety may be produced that will have a tendency to run to suckers.

THE *Farm and Home*, a Massachusetts Paper, says:—"Over 12,000 tons of cotton seed meal were fed in New England last year—a fact which shows how rapidly this comparatively new feed has gained ground. It ought to be furnished far below its present price, and would be if a quarter of the available seed were utilized. An Atlanta (Ga.) paper estimates that the South produced last year over 3,000,000 tons of cotton seed, only one-sixteenth part of which was worked up—a waste of \$50,000,000. The meal is not, as some suppose, the seed ground up, but is made from a "cake" that remains after the oil has been crushed and pressed from it. This oil cake was formerly thrown away, and it is this refuse which is now ground up and sold at \$18.00 per ton or more. A ton of cotton seed produces, after being thus handled, 765 pounds of meal: yet the figures above given show that immense quantities of seed go to waste, on account of the lack of mills to extract the seed and grind the cake. Cotton seed meal has been steadily growing in favor with live-stock men since it was first introduced, and if it could be afforded at a lower price would crowd corn meal in a good many stables. Few cattle "take" to it at first, but they soon seem to like it and become very fond of it. We have never known of any harmful results to follow its use, except when too much was fed. As a fattening food it ranks high, and it is undoubtedly destined to play a prominent part among the foods of the future.

## Advertisements.

No advertisements are inserted in our columns unless we have reason to believe the advertisers trustworthy, reliable parties, whom we would ourselves send orders to if we wanted the articles they offer. Our advertisers and subscribers generally understand this, so when writing to any of them it will be an advantage to yourself and all concerned if you will mention SEED-TIME AND HARVEST.

**DESIGNS** made of preserved natural FLOWERS on **Holiday Cards**, a Beautiful Novelty that sells at sight, Sample for 5 3-ct. stamps. Circular free. ARNOLD PUETZ, Jacksonville, Fla. 16

## COCKERELS!

A few choice ones for sale. Brown Leghorns, \$1. and Plymouth Rocks at \$2.50, each. First class stock. I. F. TILLINGHAST, La Plume, Pa. 13tf

## POULTRY WORLD

A monthly magazine, the oldest, largest, and best periodical devoted entirely to poultry ever published. Splendidly illustrated. \$1.25 per year. Also the *American Poultry Yard*, the only weekly paper in existence which is devoted entirely to poultry, \$1.50 per year. Both papers for \$2.00. A sample copy of both mailed on receipt of nine cents in postage stamps. Address H. H. STODDARD, HARTFORD, CT.

## PURE BONE MEAL

—FOR—  
**CHICKENS.**

\$4.00 per hundred pounds by freight or express at purchaser's expense. 25 pounds or more at hundred pound rates. 10 pounds by express for 50 cents. Sample by mail for 10 cents.

Isaac F. Tillinghast,  
13tf La Plume, Lack'a Co., Pa.

## "SOUTH AND WEST,"

ONLY 50 CENTS A YEAR.

It is a first-class Agricultural paper, published semi-monthly. All who send us their subscription with 50 cents, between now and December 1st, we will send them the paper until January 1st 1884. Sample copies, containing Premium Lists, sent free on application, Address "SOUTH AND WEST," 320 N. 3d street, St Louis, Mo. 13-18

Every reader of the Seed-Time and Harvest, be he farmer, fruit grower, trucker, or florist, should see our Monthly, the "*Farm and Garden*." No matter if you take twenty papers now, you will be pleased and interested with ours for it is different from them. Printed on the best of paper, illustrated in the finest manner, our price is yet the lowest. Our subscription plan is this. We do not deal in watches, seeds, or novelties; and offer nothing but our paper, and give our whole attention to it. Our price is 50 cents a year, 25 cents for 6 months trial, and if after you see the paper you like it, we will send it to a club of six for \$1.50, thus giving our handsome monthly for 25 cents a year, postage paid. Send us either American or Canada Stamps, and do not fail to see our paper before subscribing for next year.

Address, **FARM AND GARDEN,**  
14-15 125 S. 4th St., Philadelphia, Pa.



# SEED-TIME AND HARVEST.

## RELIABLE SEEDS at HONEST PRICES.

I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I re-fill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

**No seeds** are sent out on commission to be returned and sold in after years!

**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2.

Address **Isaac F. Tillinghast, LaPlume, Lack'a Co., Pa.**

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchaser's expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

Beans.	2-oz Pkt.	Lb.	Peck.
Crystal White Wax	10	40	2.50
Early Feejee	10	30	1.50
Early Black Wax	10	30	2.00
Jones's Ivory Pod Wax	10	40	2.00
Ferry's Golden Wax	10	40	2.00
Large White Marrowfat	10	25	1.50

Pole Beans.			
Concord	10	30	2.00
Large Lima	10	30	—
German Wax	10	30	2.00
Dreer's Improved Lima	10	30	—

Corn.			
Red River, New	10	30	1.50
Early Marblehead	10	30	1.50
Amber Cream, New	10	30	1.50
Early Minnesota	10	30	1.25
Moore's Early Concord	10	30	1.25
Crosby's Extra Early	10	30	1.25
Black Mexican	10	30	1.25
Stowell's Evergreen	10	30	1.00
New Egyptian	10	30	1.25
Red and White Rice Pop-Corn	10	40	—
Wauhakum Field	10	30	1.25
Longfellow's Field	10	30	1.25

Peas.			
American Wonder	15	50	—
Winona Dwarf White Marrow	15	40	—
Cow Peas	10	30	1.25
Extra Early Dan. O'Rourke	10	30	2.00
Philadelphia Extra Early	10	30	2.00
Blue Imperial	10	30	2.00
McLean's Little Gem	10	30	2.00
Champion of England	10	30	2.00
Black-Eyed Marrowfat	10	20	1.50

Asparagus.	Pkt.	Oz.	Lb.
Conover's Colossal	05	10	0.75
Early Purple Giant Argenteuil	05	20	1.50

Brussels Sprouts.			
New Dwarf	05	25	—

Beets.			
Early Egyptian	05	10	1.25
Bassano	05	10	.75
Dewing's Red Turnip	05	10	.75
Yellow Turnip	05	10	.75
Long Smooth Blood	05	10	.75
Above Varieties Mixed	05	10	.75

Mangel Wurzel Beets.	Pkt.	Oz.	Lb.
Yellow Globe	05	10	.75
Norbital's Giant	05	10	.75
Webb's New Kinver	05	10	.75
Imperial Sugar	05	10	.65

Broccoli.			
Early Purple Cape	10	60	—
White Cape	10	60	—
Walcheran	10	60	—

Cauliflower.			
Lackawanna (New)	20	2.00	—
Early Snowball, New	20	2.00	—
Earliest Dwarf Erfurt	20	2.00	—
Early London	15	.75	—
Nonpareil	20	1.25	—
Lenormand's Short Stem	20	1.25	—
Above Varieties Mixed	20	—	—

**Cabbage.**  
**American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

Very Early Favorite	15	60	—
Early York	05	15	2.00
Berkshire Beauty, New	15	—	—
Early Bleichfield	10	25	4.00
True Jersey Wakefield	10	35	5.00
Henderson's Early Summer	10	40	6.00
Newark Early Flat Dutch	05	35	5.00
Large Early Oxheart	05	30	3.00
Early Winingstadt	05	20	3.00
Fottler's Early Drumhead	05	25	4.00
Premium Flat Dutch	05	25	4.00
Late American Drumhead	05	25	4.00
Marblehead Mammoth	05	25	4.00
Perfection Drumhead Savoy	05	25	4.00
Red Drumhead	05	25	4.00
Red Dutch	05	25	4.00
Early Dark Red Erfurt	—	—	—
Above Varieties Mixed	10	30	—

Carrot.			
Early Short Horn	05	10	1.25
Improved Long Orange	05	10	1.25
Danvers Orange	05	10	1.50
White Belgian	05	10	1.00
Above Varieties Mixed	05	10	—

Celery.			
La Plume Chestnut, New	10	1.00	—
Crawford's Half Dwarf	05	35	5.00
Carter's Dwarf Crimson	10	40	—
New Golden Dwarf	10	50	—
Dwarf White Solid	05	25	4.00
Boston Market	10	50	—
Sandringham	05	25	4.00
Giant White Solid	05	25	4.00
Celeriac, Turnip Rooted	05	25	—
Above Varieties Mixed	10	30	—

Chicory.			
Large Rooted	05	—	1.25

Cress.			
Curled, or Peppergrass	05	10	1.25
Water Cress	10	60	—

Cucumber.	Pkt.	Oz.	Lb.
Tailby's Hybrid, New	05	10	1.50
Early Cluster	05	10	1.25
Early Russian	05	10	1.25
Peerless Early White Spine	05	10	1.25
Green Prolific	05	10	1.25
Long Green	05	10	1.25
Above Varieties Mixed	05	10	—

Egg Plant.			
Long Purple	10	50	—
Improved N. Y. Purple	10	60	—
Very Early Dwarf Purple	10	50	—
Striped Gaudalupe	10	60	—
Long White China	10	60	—
Above Varieties Mixed	10	60	—



# SEED-TIME AND HARVEST.

<b>Endive.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>
Green Curled .....	05	20	2.00
<b>Kohl Rabi.</b>			
Large Purple.....	10	35	
Early White Vienna .....	10	35	
Above Varieties Mixed.....	10	35	
<b>Lettuce.</b>			
Black Seeded Simpson, New...	05	30	1.00
Hanson .....	05	20	2.00
Victoria .....	05	20	2.00
Early Curled Simpson .....	05	20	2.00
True Boston Market .....	05	20	2.00
White Seeded Tennisball.....	05	20	2.00
Black Seeded Tennisball.....	05	20	2.00
Drumhead, or Malta .....	05	20	2.00
Above Varieties Mixed.....	05	20	2.00
<b>Leek.</b>			
Large Scotch Flag .....	05	30	4.00
<b>Musk Melon.</b>			
Nutmeg.....	05	10	1.25
Skillman's Netted.....	05	10	1.25
Improved Yellow Cantaloupe	05	10	1.25
Green Citron.....	05	10	1.25
Pine Apple .....	05	10	1.25
Jenny Lind.....	05	10	1.25
Surprise, New, .....	05	15	2.00
Bay View, New.....	05	15	2.00
Above Varieties Mixed.....	05	10	1.25
<b>Water Melon.</b>			
Cuban Queen, New.....	05	20	3.00
Phinney's Early .....	05	10	1.25
Striped Gipsev.....	05	10	1.25
Ice Cream .....	05	10	1.25
Mountain Sweet .....	05	10	1.25
Ferry's Peerless .....	05	10	1.25
Citron. (for preserving,) .....	05	10	1.25
Above Varieties Mixed.....	05	10	1.25
<b>Mustard.</b>			
White French.....	05	05	60
Black American .....	05	05	60
<b>Onion.</b>			
Southport Red Globe, fine,....	05	20	3.00
Early Red Globe .....	05	20	3.00
Yellow Danvers.....	05	20	2.50
Red Wethersfield .....	05	20	2.50
Large Yellow Dutch.....	05	20	2.50
White Globe .....	10	40	—
White Portugal.....	05	20	2.50
New Queen .....	05	25	4.00
White Italian Tripoli.....	05	20	3.00
Giant Rocca.....	05	20	3.00
<b>Parsnip.</b>			
Smooth Hollow Crowned .....	05	10	.75
Early Round.....	05	10	.75
<b>Parsley.</b>			
Extra Fine Curled .....	05	15	2.00
<b>Pepper.</b>			
<b>New Golden Dawn</b> .....	<b>15</b>		
Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne .....	10	25	4.00
Spanish Monstrous (New).....	10	40	
<b>Pumpkin.</b>			
Large Cheese.....	05	10	.85
Sugar. (Fine for pies,).....	05	20	
Connecticut Field .....	05	05	.45
<b>Radishes.</b>			
Early Scarlet Turnip .....	05	10	1.00
Early White Turnip .....	05	10	1.00
Long Scarlet Short-Top.....	05	10	1.00
Early Scarlet Olive .....	05	10	1.00
French Breakfast .....	05	10	1.00
China Rose Winter .....	05	10	1.00
Black Spanish Winter .....	05	10	1.00
California Mammoth White..	05	15	2.00
Grey Summer Turnip.....	05	10	1.50
Golden Yellow Summer (New)	05	10	1.50
Above Varieties Mixed.....	05	10	1.25
<b>Salsify, or Vegetable Oyster.</b>			
White French .....	05	15	2.00

<b>Spinach.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>		
Round Leaved .....	05	05	0.50		
Monstrous Viroflay .....	05	10	1.00		
<b>Squash.</b>					
Low's Essex Hybrid, New,....	10	15	2.50		
Early White Bush .....	05	10	1.00		
Summer Crookneck .....	05	10	1.00		
Hubbard.....	05	10	1.25		
Marblehead .....	05	10	1.25		
Butman. (New,) .....	05	10	1.25		
Mammoth .....	10	30			
<b>Tobacco.</b>					
Connecticut Seed Leaf.....	10	30			
Kentucky Broad Leaf.....	10	30			
<b>Tomato.</b>	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>		
Essex Hybrid, New.....	10	.30	.60		
Ford's Alpha, New, .....	10	.30	.60		
Acme, .....	05	.20	.40		
Mayflower, New, .....	10	.30	.60		
Red Currant .....	05	.25	.50		
Paragon .....	05	.25	.50		
Canada Victor .....	05	.15	.30		
Conqueror .....	05	.15	.30		
Livingston's Perfection, .....	05	.20	.40		
Trophy .....	05	.15	.30		
Island Beauty .....	05	.30	.60		
Green Gage.....	05	.15	.30		
Golden Rural, New,....	05	.20	.40		
Saint Paul, (New) .....	10	.30	.60		
Above Varieties Mixed.....	05	.20	.40		
<b>Turnip.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>		
New White Egg,.....	05	10	1.25		
Early White Dutch.....	05	10	.80		
Purple Top Strap Leaf.....	05	10	.80		
Long White Cow Horn .....	05	10	.80		
Large White Globe.....	05	10	.80		
Yellow Aberdeen .....	05	10	.80		
Yellow Globe .....	05	10	.80		
Golden Ball.....	05	10	.80		
Above Varieties Mixed.....	05	10	.80		
<b>Rutabaga, or Swede Turnip.</b>					
White French, or Sw't German	05	10	80		
Skirving's Purple Top Yellow	05	10	80		
Brill's American Yellow .....	05	10	80		
Shamrock Swede, Yellow.....	05	10	80		
Above Varieties Mixed.....	05	10	80		
<b>Herb Seeds.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Pkt.</i>	<i>Oz.</i>	
Coriander .....	05	.20	Dill.....	05	.25
Horehound.....	10	50	Sage .....	05	20
Summer Savory... ..	10	30	Saffron....	05	25
Sweet Marjoram.. ..	10	40	Lavender .	10	30
Caraway .....	05	15	Sweet Basil	10	40
Sweet Fennel.....	05	20	Thyme....	10	50
<b>Seed Potatoes.</b>					
I am pleased to announce that I have a much finer and larger stock of Seed-Potatoes to offer this fall and next spring than ever before. I have annually tested hundreds of new varieties and believe the following list comprises the very best in cultivation. The following prices are for fall delivery, and are, no doubt, lower than I shall be able to supply them in spring. The pound prices include postage and free delivery by mail. In larger quantities they will be delivered to express or freight agents here to be transported at the expense of the purchaser.					
	<i>Lb.</i>	<i>Peck.</i>	<i>Bush.</i>	<i>Bbl.</i>	
Wall's Orange.....	\$1.00	5.00			
White Mountain.....	50				
Early Sunrise.....	50				
Red Elephant.....	50	1.00			
Jordan's Prolific.....	50	1.00			
Brownell's Best.....	50	1.00	3.00	7.50	
Early Telephone .....	50	1.00	3.00	7.50	
White Whipple.....	50	.75	2.00	5.00	
Clark's No. 1.....	50	.75	2.00	5.00	
The "Belle,".....	50	.75	2.00	4.50	
White Elephant, .....	50	.75	1.50	4.00	
La Plume Triumph... ..	50	.75	1.50	4.00	
E. Beauty of Hebron. ..	50	.75	1.50	4.00	
Pride of America....	50	.75	1.50	4.00	

Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.



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CHAMPION CIDER PRESS.

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A. S. Watson, Portland, Chatauqua Co., N. Y. 17  
H. S. Anderson, Union Springs, N. Y. 23

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# SEED-TIME AND HARVEST.

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Irving Allen, Springfield, Mass.  
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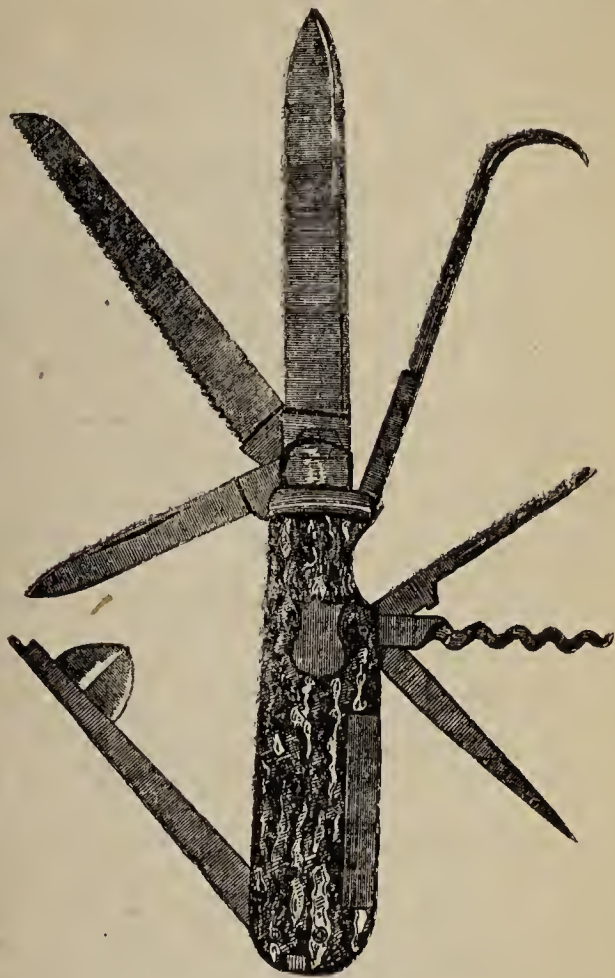
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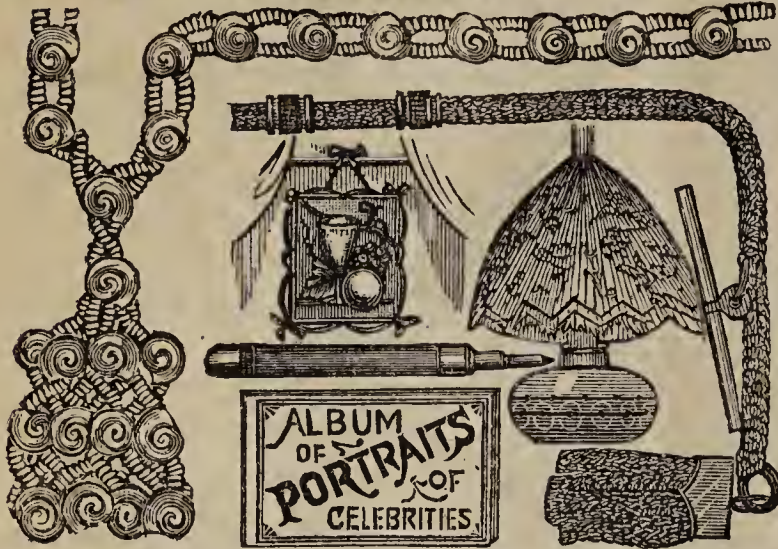
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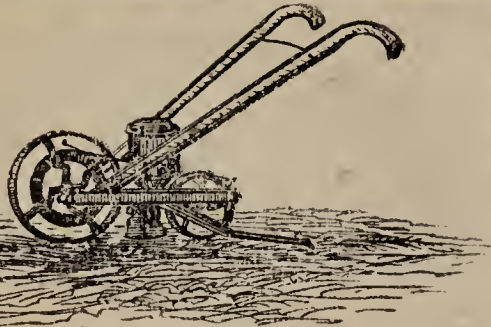


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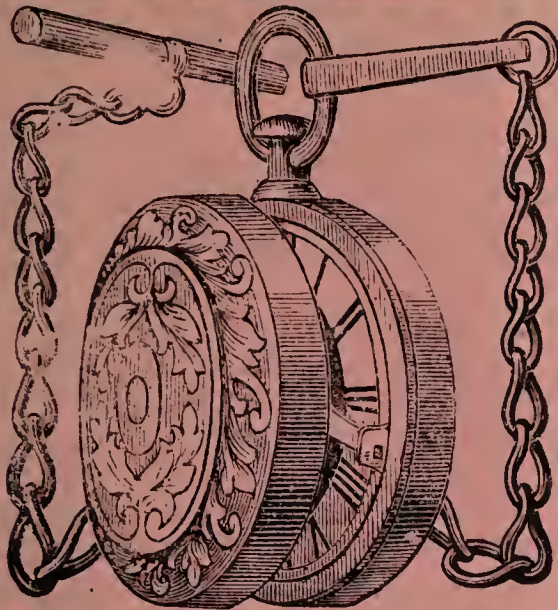
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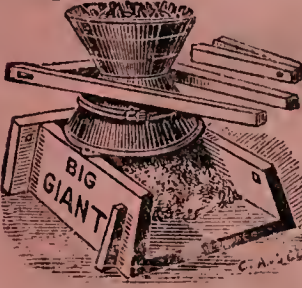
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**JOHN GARMORE,**  
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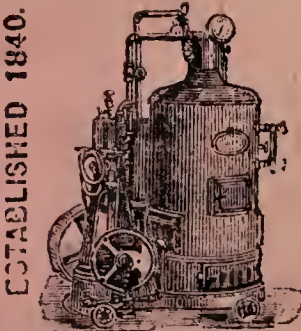
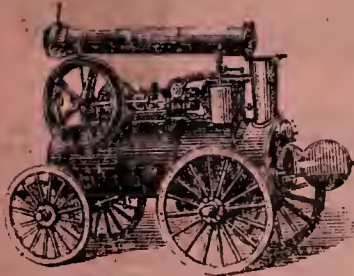


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1871.

TWELFTH YEAR.

1883.

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We give no Chromos to subscribers or club agents, but simply our Flower Seeds or Bulbs, grown expressly for us, of the very best strains of their respective varieties. **TO EVERY SUBSCRIBER**, coming singly or in clubs, we send either List I. or List II., as they may select at the time of sending in their subscription. Either of these lists would cost more at a retail establishment than the subscription price of the magazine.

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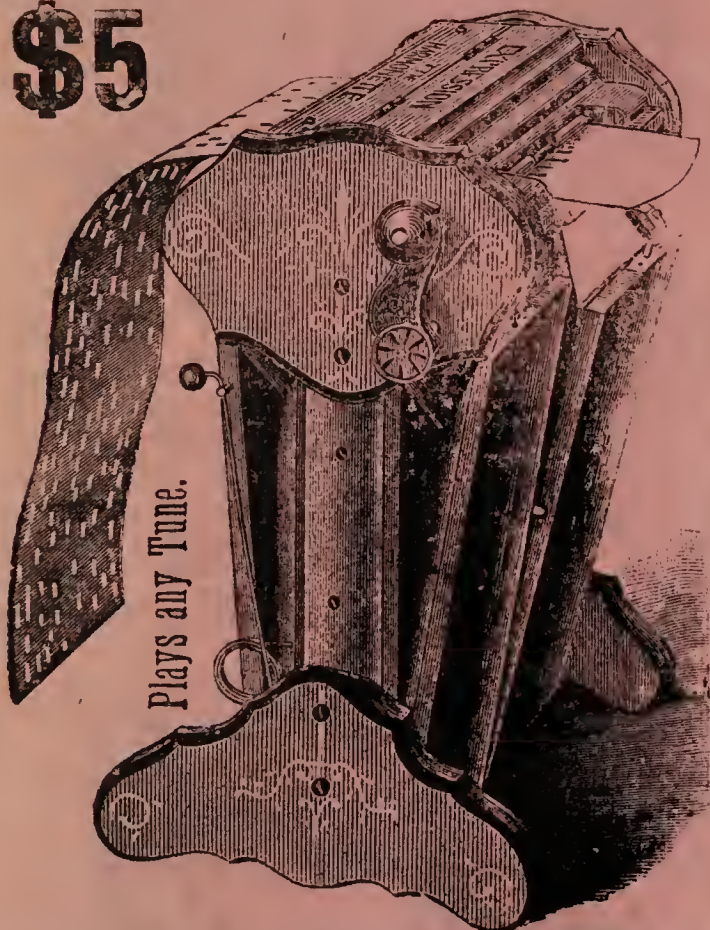
- Balsam, Camellia-flowered, Mixed Colors.
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**THE HARMONETTE. A MUSICAL WONDER,** and the best Mechanical Musical Instrument in the World. Now in construction, elegant in design, powerful and melodious in effect, MUSIC AND MUSICIAN COMBINED. More Reeds and more powerful than \$8 Organettes. THE HARMONETTE plays anything, from a simple song to a difficult waltz or operatic selection. Any child can operate it. Music only 4 cents per foot. It is beautifully finished in black walnut, and of handsome shape and design; **EXPRESSION SWELL**, and many patented improvements. It is as loud as a cabinet organ, and will furnish music for any occasion, and it is a most complete present for any one, old or young. We send the Harmonette, with selection of music, to any address, on receipt of price, \$5. Extra Music can be sent by Mail at any time. This is the most wonderful musical instrument that has ever been invented. Address, the **MASSACHUSETTS ORGAN CO., 57 Washington Street, Boston, Mass.**

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1883.

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# Seed-Time and Harvest.

## JANUARY.



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## U. S. STANDARD 5-TON SCALES, \$60.

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Where we have no Agents the Scales will be sent on Trial, Freight paid, and a SPECIAL DEDUCTION MADE.

FOR ORDINARY FARM USE, WE RECOMMEND

### THE FARMERS' 3-TON SCALE,

Size of platform, 8 feet by 13 feet.

Price, \$35.

For Illustrated Book, address,

FREIGHT PAID; SENT ON TRIAL; FULLY WARRANTED.

OSGOOD & CO.,  
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The best Broadcast Seed-sower in the market. A common-sense, labor-saving Machine. Sows perfectly all kinds of Wheat, Rye, Flax, Barley, Oats, Buckwheat, Peas, Corn, Hungarian Millet, Clover, Timothy; also Plaster, Lime, Salt, Guano, Ashes and all the various Phosphates; in fact, everything requiring broadcasting. It is quickly attached to any farm-wagon. A team walking one mile sows four acres of Wheat. For Circular and testimonials, address C. W. DORR, Des Moines, Iowa.

## PURE BONE MEAL FOR CHICKENS.

\$1.00 per hundred pounds by freight or express at purchaser's expense. 25 pounds or more at hundred pound rates. 10 pounds by express for 50 cents. Sample by mail for 10 cents.

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## FIVE-TON WAGON SCALES \$60

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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

—FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.—

VOL. 4.

JANUARY, 1883.

NO. 1.



·NEW GOLDEN DAWN YELLOW MANGO.



### The Motherless Turkeys.

The white turkey was dead! The white turkey was dead!

How the news through the barn-yard went flying!

Of a mother bereft, four small turkeys were left,

And their case for assistance was crying.

E'en the peacock respectfully folded his tail,

As a suitable symbol of sorrow,

And his plainer wife said, "Now the old bird is dead,

Who will tend her poor chicks on the morrow?"

And when evening around them comes dreary and chill,

Who above them will watchfully hover?"

"Two each night I will tuck 'neath my wings," said the duck,

"Though I've eight of my own I must cover!"

"I have so much to do! for the bugs and the worms,

In the garden, 'tis tiresome pickin';

I've nothing to spare—for my own I must care."

Said the hen with one chicken.

"How I wish," said the goose, "I could be of some use,

For my heart is with love over-brimming;

The next morning that's fine, they shall go with my nine

Little yellow-backed goslings, out swimming!"

"I will do what I can," the old Dorking put in,

"And for help they may call upon me, too,

Though I've ten of my own that are only half grown,

And a great deal of trouble to see to;

But these poor little things, they are all head and wings,

And their bones through their feathers are stickin'!"

"Very hard it may be, but, Oh, don't come to me!"

Said the hen with one chicken.

"Half my care I suppose there is nobody knows,

I'm the most overburdened of mothers! They must learn, little elves, to scratch for themselves,

And not seek to depend upon others."

She went by with a cluck, and the goose to the duck

Exclaimed with surprise, "Well, I never!"

Said the duck, "I declare, those who have the least care,

You will find are complaining forever! And when all things appear to look threatening and drear

And when troubles your pathway are thick in,

For some aid in your woe, beware how you go

To a hen with one chicken."

—*Marian Douglas.*

### Selecting Vegetable Seeds For Spring Planting.

BY ISAAC F. TILLINGHAST, LA PLUME, PA.

"IN TIMES of peace, prepare for war,"

is a trite old saying whose wisdom our farmers and gardeners should not forget. The year's work has now been completed, the crops laid by, and both the soil which yields so bountifully, and the farmer who has so long been keeping up a constant warfare to produce and secure his crops, have a season of rest. While enjoying this peaceful repose, the calculations and preparations for next year's warfare should be going on. Now is the time to decide what is to be grown next summer and where you are to grow it. The winter, long, dreary and cold as it is, will rapidly pass away, the powerful rays of the sun will soon banish these icy fetters, and the pent up vegetation will again spring forth. Before we are aware Seed-Time will again be upon us. If we sow not, neither shall we reap. Shall we all be ready? It is none too early to make our selections of seeds, especially those which are to be sown under glass, and a little talk about varieties will now be in order. About the first wanted will be our Early Cabbage. The plan of sowing in September, and wintering over in a cold-frame is not so extensively practiced in the North as formerly. It is found to be much less trouble and usually more satisfactory to sow the seeds in February or early in March in a moderately warm bed, under glass and keep them growing vigorously, until the weather permits their being set in the garden or field. Once transplanting into a cold-frame, at about four weeks from planting, where they can be protected, if necessary, and properly hardened, will render





EARLY EJRSY WAKEFIELD.

them fully equal to those which have been kept over from fall.

For earliest family use the Early Favorite and Large Early York will suffice. For earliest market use the true Jersey Wakefield stands unrivalled. It is more extensively used for this purpose than any and all others. Henderson's Early Summer is preferred by some, it being a week or ten days later, but much larger than the Wakefield. The Early Flat Dutch is about with Early Summer in season of maturing and is largely grown in some sections. As these American varieties are unusually scarce and high-priced this season, foreign varieties will have to be resorted to by some large growers. Few imported sorts give as good satisfaction in this country, as the Large French Oxheart. Numerous trials have



LARGE FRENCH OXHEART.

shown that it heads up uniformly and solid, scarcely one plant in a hundred failing. It somewhat resembles the Wakefield in shape and appearance, but is a little later and larger, in size and season comparing favorably with Early Summer. The Early Bleichfield is a new German cabbage, somewhat resembling the Winningstadt, but rounder

in form, and two weeks earlier. In it, the heads are remarkably hard and close and not liable to be affected much by worms. Fottler's Early Brunswick, is used both for early and late, and is considered the best cabbage known, for all purposes. Its large, solid, flat heads, uniformly produced upon short stumps are the admiration of all cabbage growers. Premium Flat Dutch is the standard everywhere for winter use. The Am. Late Drumhead closely resembling it, may be substituted for it by those who cannot procure a supply of seeds of Flat Dutch. Marblehead Mammoth when all the conditions are favorable, is the largest cabbage in the world, but if placed upon too poor ground, or badly cul-



EARLY BLEICHFIELD.

tivated, it is more likely to produce no head at all, than any other variety. The Savoys are the tenderest and richest of all cabbages, but the worms will surely find it out and claim them if allowed to. The red sorts are highly esteemed, and frequently bring one or two cents per pound more in market than any other kind. The market gardener usually knows from past experience, just what kinds will be required for his use, and will only need to determine the quantity to be used. For family use a package or half-ounce made up by mixing a dozen or more good varieties will give the greatest satisfaction, as some heads will be ready for the table, from July till January or later if properly stored for winter. This feature first introduced by us last season, has been highly praised by our pat-

is the best  
of the





FOTTLER'S EARLY BRUNSWICK.

Persons who tried the mixed seeds.

#### THE BEST LETTUCE.

Lettuce is relished in early spring while other vegetables are not to be had and the appetite craves something green. If we cannot have such things in season they are of little use, and to be available for either family use, or profitable marketing must be sown early, either under glass at same time of sowing the early cabbage, or at latest in the open ground as soon as it can be worked. Sow liberally and at intervals of one



EXCELSIOR FLAT DUTCH.

week to keep up a succession. There are many good varieties, and one can hardly go amiss in selecting. The new Black Seeded Simpson, has become very popular. It produces fine heads and is very slow in going to seed, remaining tender for a long time. The Boston Market and Black Seeded Tennisball are also largely used for forcing under glass. The Hanson, Victoria, Royal



HANSON LETTUCE.

Cabbage, Satisfaction and Drumhead, among the best summer varieties. If transplanted among the early cabbages in April or May, they will all produce large heads and with this treatment one plant will supply as much as a whole bed where thick sown.



BLACK-SEEDED SIMPSON LETTUCE.

About the first of March, in this latitude a hot-bed should be ready for a liberal sowing of

#### THE NEWER TOMATOES.

So great has been the march of improvement in tomatoes during the past few years that it seems to us, little or nothing remains to be desired by cultivators in this popular vegetable. We think that some of the newer varieties have more nearly reached absolute perfection than can be said of any other vegetable. Now if cultivators will use care and judgment in keeping their seed stocks pure, and save seeds only from the earliest and most perfect specimens, they will purchase them from some grower who does this, so as not to degenerate in their hands. Much finer fruit will be seen in our markets and on our tables than has hitherto been.

No living man, we think, deserves more credit for what has been done in improving this vegetable than Mr. A. W. Liv-



## SEED-TIME AND HARVEST.



LIVINGSTON'S PERFECTION.

ston, who first gave the public the Paragon some five or six years ago. It has been, and is yet, a splendid early variety—few being introduced which will equal it. It was soon followed by the Acme, which has been a remarkably popular variety, from the same originator. Its only fault is its delicacy and tenderness, and a consequent liability to rot when planted upon heavy or wet soils. In spite of this trait it would still be considered one of the very best, had not Mr. Livingston himself superseded it by the introduction of Livingston's Perfection, which has everywhere been proved a rare acquisition, especially for the market gardener and shipper. It is of faultless shape and color, ripens evenly and perfectly, leaving no unripe spot around the stem as does the Trophy and some others, and has very thick solid meat and few seeds. It is covered with a remarkably thick, tough skin and will stand much rougher handling than any other variety we have. It seems as though a man should be satisfied with having reached *Perfection* in a new fruit or vegetable, but Mr. Livingston was not, and now comes out with *Livingston's Favorite*, which he takes pride in saying is unequalled by any other tomato in the world. If coming from any other source than Mr. Livingston, great allowance would be made upon such a claim, but as it is, the public is bound to give it a trial, so we add it to our list. Our stock of seeds of both *Perfection* and *Favorite* was grown by Mr. Livingston



THE MAYFLOWER.

himself, and saved from his finest specimen

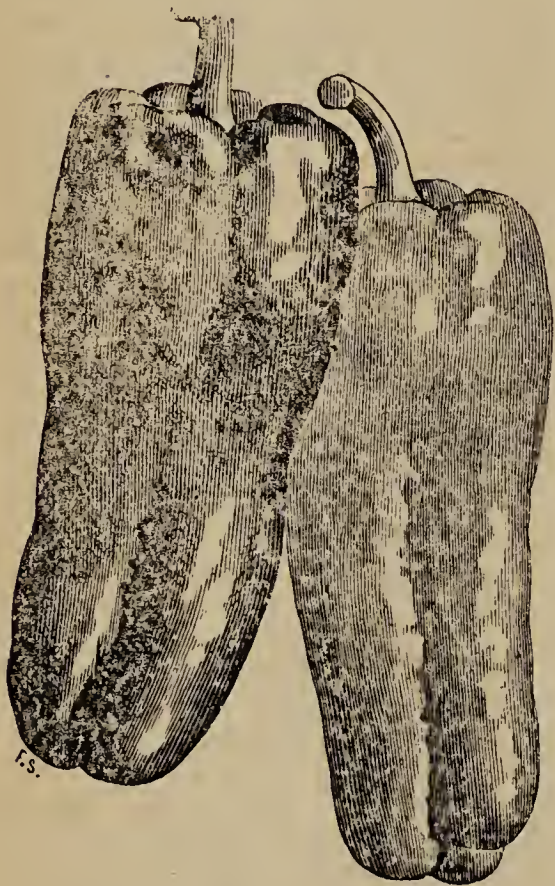
From Massachusetts, we have a new variety, the *Essex Hybrid*, which gave great satisfaction last season wherever tried. It ranks with the Trophy in size and solidity and yet is earlier. From northern Minnesota we have the *Saint Paul*, a very early variety somewhat resembling the Acme. We also add to our list, this season the *May-Flower*, which is undoubtedly destined to become very popular. In conclusion on the subject we will say that from our extensive tests, and observations made on the grounds of others we feel justified in saying that whoever plants the above named kinds of tomatoes this season, plants the very best that this world affords, and will not soon expect to find anything better in the tomato line.

### MANGO PEPPERS.

The demand for Mangoes, to stuff and cut cabbage for a winter pickle, is sure to be right brisk in any market town where the right kinds are planted, considerable profit may be made in growing them. The most popular of the old sorts is the *Saint Paul*, which is well known everywhere



more recent Novelty from France is the *Spanish Monstrous*, the fruit of which grows about six inches long, and two inches thick, with very thick meat and but little peppery flavor. The latest Novelty in the mango line however, is the *New Golden Dawn* of which we present an elegant engraving true to life. In productiveness this new mango surpasses any variety we ever grew, single plants this season ripening from 12 to 24 fruits. In color it is a bright golden yellow, very brilliant and handsome, especially showy when mixed with red sorts, by way of contrast. But the quality which distinguishes it from all others, its crowning point of excellence, is the fact that it is *entirely* exempt from



SPANISH MONSTROUS.

fiery flavor—even the seeds and pulp may be chewed without detecting the slightest smarty taste. Ladies who have had trouble with burned hands, in stuffing so-called sweet mangoes, will appreciate this trait in their character. Our excellent plate was drawn from life, and represents only an average plant; many could have been selected having a third more fruits in number. A gardener of our acquaintance, the past season, set 450 plants of the *Golden Dawn* on six rods of ground and sold by actual count 8150 mangoes at one dollar per



EARLY SNOWBALL CAULIFLOWER.

100, netting him \$81 50 which is \$2200 per acre, not a bad showing for those who think gardening doesn't pay.

## THE CAULIFLOWER

is a vegetable which is very profitably grown in some sections, and is always highly esteemed, being the most dainty and delicious of the whole cabbage family, to which it properly belongs. For very earliest use, nothing can compare with the *Early Snowball* and *Small-Leafed Erfurt*. The *Lackawanna* is a large second early variety, which has given great satisfaction wherever grown. Lenormand's *Short Stemmed* is the most popular for later use. For family garden we would recommend a trial of the different varieties mixed, so they will mature at different times.

## EGG PLANTS

are not so universally grown as some vegetables but are highly esteemed by many. These plants are almost tropical in their nature and require about the same treatment as Peppers. It will require constant watchfulness to protect them from the Colorado Beetles, but this care will likely be repaid in increased price, the market never being over stocked. The varieties are quite numerous. For market we would recommend the *New York Purple*, for family use mixed seeds.

With the exception of cabbages, perhaps, no vegetable crop is of more importance than

## ONIONS FOR MARKET.

We know of many farmers who usually



## SEED-TIME AND HARVEST.



NEWYORK PURPLE EGG PLANT.

make more clean money from one-fourth acre to one acre of onions, than from all the rest of their farms. They are easily grown upon any common farm land, if properly prepared and tended. To grow them successfully requires practice, and we would advise those about to begin not to attempt too much at first. One rod of ground, properly handled will yield more profit than a dozen which are neglected. Manure heavily, pulverize thoroughly, sow early, and cultivate frequently and success is certain, provided of course that the seed is good. A failure here will produce a failure all around. Good seeds can be bought low if secured early. Of varieties the Yellow Globe Danvers is probably the most popular, though the Red Wethersfield is preferred by some. The Yellow Dutch somewhat resembles the Danvers, grows harder and flatter and is a good onion. The South-



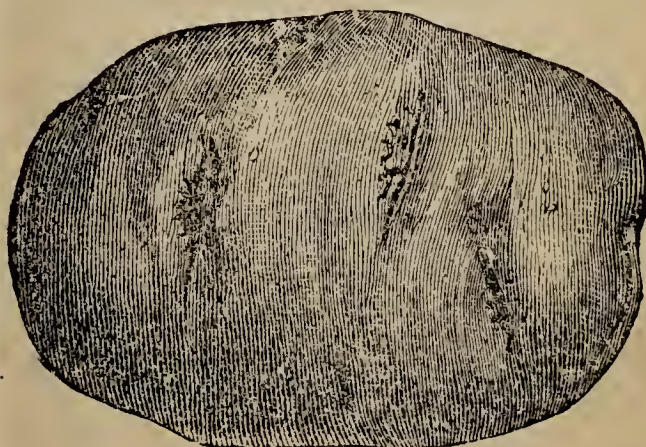
YELLOW GLOBE ONION.

port Red Globe, Yellow Globe, and White Globe, are fine Connecticut onions, resembling each other in every way except in color.

The New Queen is planted for early garden use, in place of setts as it is very early. The Early Red Globe is the earliest of any which is planted for market use. The White Tripoli and Giant Rocca are Italian varieties which do well in the South, producing very large onions. For sowing thickly to produce setts for another years use. The Yellow Dutch and White Portugal are mostly used. For growing full-sized market onions, five pounds of fresh seed is the usual allowance per acre, but for producing setts they should be sown very thickly, thirty pounds per acre is considered none too many.

### THE POTATO CROP

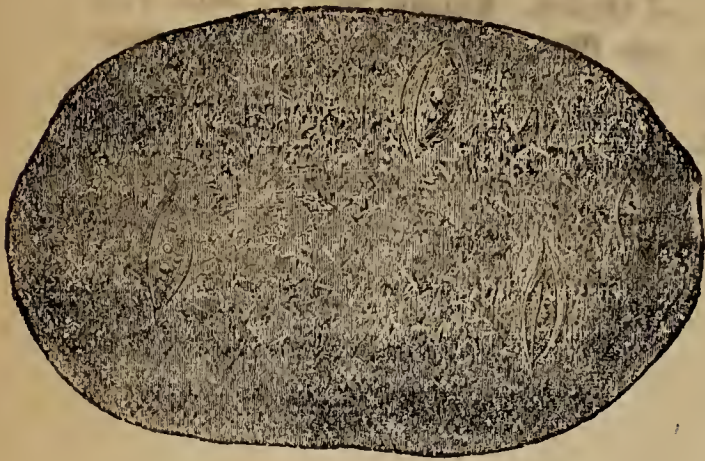
is the most important hoed crop upon many farms. In no other vegetable is it necessary to change the variety so often as with Potatoes. Deterioration is so rapid that the very best kinds of only five years ago are already superseded by newer ones. Many planters strive to cling to their old favorites but in vain, their day once being past they have to give room to those more recently produced from the seed-ball. We have given the testing of new varieties of potatoes a great deal of attention during the past few years and in discarding hundreds have held on to a very select list, undoubtedly the very best now in cultivation. *Wall's Orange*, of which we present an engraving in this issue is the subject of a special notice elsewhere. For earliest use *Early Beauty of Hebron*, *Pride of America*, *Cark's No. 1*, *Early Telephone*, and *Brownell's Best* are about alike in earliness. They are all of ex-



EARLY BEAUTY OF HEBRON.



## SEED-TIME AND HARVEST.



BROWNELL'S BEST.

tra fine quality, the last three very closely resembling each other in color and appearance. For later planting, or for general use the Belle and White Elephant are now regarded as standards. The White Whipple, Jordan's Prolific, Champion and Early Sunrise are promising new varieties worthy of a fair test in every neighborhood. The White Star is a large yielding, fine appearing, late variety and if it proves satisfactory in quality, will no doubt become popular.

Corn, beans, peas, beets, celery, carrots, cucumbers, melons, parsnips, radishes, turnips, &c., will have to wait for consideration until our next number.

### A SHEAF OF RICHEST GRAIN.

BY EBEN E. REXFORD.

HE SAW the wheat waiting,  
All golden in the sun,  
And strong and stalwart reapers  
Went by him, one by one.  
"Oh, could I reap in harvest!"  
His heart made bitter cry;  
"I can do nothing, nothing,  
So weak, alas! am I."

AT EVE, a fainting traveler  
Sank down beside his door—  
A cup of cool, sweet water  
To quench his thirst he bore.  
And when refresh'd and strengthened,  
The traveler went his way,  
Upon the poor man's threshold  
A golden wheat-sheaf lay.

WHEN came the Lord of Harvest,  
He cried: "Oh, Master, kind!  
One sheaf have I to offer,  
And that I did not bind;  
I gave a cup of water  
To one athirst, and he  
Left at my door in going,  
The sheaf I offer Thee."

THEN said the Lord of Harvest:  
"Well pleased with this am I;  
One of My angels left it  
With thee as he went by.  
Thou mayst not join the reapers  
Upon the harvest plain,  
But who so helps a brother  
Binds sheaves of richest grain."

### Seed-Time and Harvest.

BY LAURA J. DAKIN.

"DINAH! me dear!" said Denis Hantra the Irish man-servant, "Vat is the matter av Mees Ada? I have seen her in tears, and she niver eats her dinner."

"Ah indeed, the dear Mees Ada!" assented Dinah Van Tasher the Danish maid-servant, "Sir Herman Andersen has invited her that she visit at his manse—that is his tenement—and she has never a dress that is neat as she desires, as have the maidens, Etta and Ermina Davis, Maria, Edna and Tina Harris, Esther, Marian and Daisie Dean. These maidens are invited, and have neatest dresses. Ah, me dear Mees Ada, her tears rend me heart. I have taste, and I devise radiant raiment in me mind—then it vanisheth in the air in the instant—the minit. Ah, heavens! it is sad."

"Indade, it is a shame! and she the dearest darter av me dead master, Dr. Ethan Stevens. And Mrs. Stevens her mama is dead the same, heaven rist them."

"And never an estate remains, never even a dime save that she earns. She said her rent she must save, as a tenement she must have. And that her sister Hattie must needs be attended. 'Never mind the dresses, Dinaah,' said she."

"Rint is it" said Dennis, "She needn't shed a tear! I'm the man that sees the rint attained. I have seven earthen dishes and ten tin dishes; in them are rare asters, and tender red trees. In the seed time I started them—and see! the asters are radiant as stars this minit, and the red trees shimmer and shine."

"I see, Mister Denis," said Dinah, "the rent is indeed attained—Miss Ernestine Ames desires the asters, and Master David the trees. I heard them assert their desire."

"Ah!" said Dinah, as Denis retired. "I admire the head, hand and heart that a—"



tains this end."

Then she hastened and ran in the nearest tenement; there sat Ada and her sister Hattie.

"Ah, Mees Ada the rent is attained, never shed a tear; the rent it has vanished in air, and the dress is thine!"

"Is it Dinah Van Tasher's hand that has made it vanish?" demanded Ada.

"Indeed it didn't. Heaven's hand did it. Nineteen rare seeds hidden in the earth at seed time did it. Then see the harvest that is attained—the rent, the neatest dress, the visit at Sir Herman Andersen's—Ah the dear Denis Hanna."

"Then Denis did it! Ah, Dinah, he needn't, he mustn't."

"He must, and he has!" asserts Dinah. "He desires that Mees Ada visits at Sir Herman Andersen's manse as he has invited her."

"Madam Teressa, Sir Herman's sister invited me. I met her at Mrs. Dean's. She invited Esther, Marian, Daisie and the rest at the same time."

"I see, and I advise Mees Ada that she hasten; that the dress is made in time. I must assist. I must trim the dress and hem the sash. I have taste; I must invent a vest neater than Mees Esther's. Ah, heavens! it must shine radiant!"

"Dear Dinah, I must remain here. See! here is Hattie."

"Hattie! Ah, she remains—Dinah Van Tasher remains—Hattie and I, that's it. And Mees Ada must visit the manse," reiterates Dinah in a determined manner, "I entreat it. Sir Herman and Madam Teressa are Danes the same as I am. I have seen Madam, I admire her, she is divine! Visit her then and see."

Ere the harvest is ended Dinah Van Tasher reads in the *Times* that Sir Herman Andersen and Miss Ada Stevens are married.

"It is radiant, me heart is radiant!" said Dinah.

"Indade, it is that same, I see it shine, me dear," added Denis.

You can tell a merciful man as soon as he stops at a post. He takes the blanket off his wife's lap and spreads it over the poor horses.

## WALL'S ORANGE POTATO.

THIS is that "six hundred dollar potato" of which we made mention a year ago. Another year's trial by a great many potato growers in different parts of the country has more than confirmed the good opinion of it that we expressed at that time. Various agricultural papers have given dissertations upon its characteristics since harvest and we offer the following from the *Rural New Yorker*, which is the result of a test made on the Rural Grounds and is undoubtedly a fair description of it.

"WALL'S ORANGE.—This potato was sent to us for trial by I. F. Tillinghast, and cut to single eyes which were planted one foot apart in drills three feet apart, April 11th.

The vines were spreading and bloomed profusely by June 25—the blossoms of a solid purple color. Fruit (potato balls) set and matured on every plant in large quantities. The yield was 506.66 bushels to the acre and the number of potatoes to the acre large and small, was 173,316. The largest five weighed three pounds, three ounces. We should judge that in other soils and situations this potato would yield tubers of a uniformly medium size. With us the average was under medium as shown by the number to the acre as compared with the yield per acre. It has a distinctive shape, as the engraving, which is a true portrait, may serve to show, being oblong—sometimes roundish-oblong, but always flattened. The skin is generally splashed with purple. Sometimes it is of a buff color with purple eyes. The potatoes were eaten by six persons, September 15, who pronounced them flaky and of excellent quality. It has a positive and agreeable flavor. The soil in which they were raised is a mellow loam that seldom suffers from drought. Indeed it is too moist in wet seasons. A light spread of stable manure was spaded under; 500 pounds of Mapes's Light Soil Fertilizer were then sown broadcast, and upon the seed-pieces lightly covered with soil 500 pounds of Mapes's Potato Fertilizer per acre were strewn in the drills. The cultivation was entirely flat, a hand cultivator alone being used between the rows."





**WALL'S ORANGE POTATO.**

*Introduced by Isaac F. Tillinghast. For description see page 9.*

**ABOUT OURSELVES.**

SOME OF OUR READERS may be interested in the following description of the home of SEED-TIME AND HARVEST as told by a correspondent of the *Tunkhannock Republican* who called here one day last summer. He had come to Factoryville and visited Keystone Academy and came on—but we will let him tell the story:

“A beautiful valley just above the Academy beckoned us on and finding that we had already entered the confines of Lackawanna county when we reached the Academy, we continued our walk for a short distance and entered what we consider one of the most picturesque valleys in Northern Pennsylvania. When about half way through this beautiful vale, which is about a mile and a half in length and bounded on the south by quite abrupt hills and on the north by those of more gradual ascent, but which are all under an excellent state of cultivation, we came to a small hamlet containing some six or eight houses and a large building which we took for a country store.

A sign in front announces ‘La Plume Postoffice.’ On entering we found the building much larger than it looks from the

outside, occupied by two parties, Geo. T. Bailey, who keeps a grocery store and the postoffice on one side, the remainder of the building being used as the seed store and printing office of Isaac F. Tillinghast, Seedsman, who has been for the past ten or fifteen years working up a seed and plant business which now extends into every State and Territory in the Union. Mr. Tillinghast issued his first seed catalogue some eight or nine years ago, the edition consisting of six hundred postal cards on which was printed a list of such seeds as he had for sale.

The business has now grown to such dimensions that an edition of 20,000 copies of his catalogue of “Reliable Seeds at Honest Prices” is no uncommon occurrence, and a recommendation of a customer to a friend to buy Tillinghast’s seeds is usually followed by an order. He does not follow the plan practiced by many seedsmen of leaving boxes of seeds at drug stores and groceries to be sold on commission, as it is well known that on account of the great quantity left unsold when seeds are so offered they soon become old and proverbially unreliable. By sending only fresh, reliable seeds by mail directly to customers who pay cash in advance for them, he has



established a wide reputation for 'Reliable Seeds at Honest Prices,' and he has the satisfaction of seeing his orders more than double in number with each season.

If this ratio can be kept up for a few years more an enormous business must be the result.

But we soon find Mr. Tillinghast is a young man who cannot be idle. He wields a facile pen and has been a contributor to most of the agricultural papers in the United States, and could no doubt command a large salary as a writer on agricultural and horticultural topics. In conjunction with his seed business he is the editor of *Seed-Time and Harvest*, a 24-page magazine, which he has for the past three years published quarterly, and which now has a much larger circulation than any other publication of any kind in this section of the State. The fourth volume will commence with the October number, and thereafter it will be published monthly at only fifty cents per year. The regular edition of the last two issues has been 12,000 copies, and Mr. Tillinghast is confident that by January next his edition will be at least 100,000 copies. As his business and circulation have been built up by costly advertising in high-priced mediums, he has reached a class of men who read and answer advertisements and have money to send for whatever they want. This makes *Seed-Time and Harvest* a valuable advertising medium, and we can confidently advise our readers who desire to give the advertisement of anything they may have to dispose of a wider circulation than we can give them in the *REPUBLICAN* to insert the same in *Seed-Time and Harvest*, and we are certain the harvest will well repay them for their sowing. Our visit to La Plume was an agreeable disappointment. We found a store and stock of seeds rivalling those found in New York or Philadelphia, and a steam printing house far superior to many others we could name. Although it is the dull season for the sale of seeds, the crops are being harvested, and the gentlemanly proprietor was busy with his preparations for the winter and spring trade. One of the specialties of his business is the growing of seed potatoes and he quite frequently has as many as one hun-

dred varieties under cultivation to test their merits. Large fields of this vegetable are on all sides, and he has been obliged to enlist the co-operation of nearly all the farmers in the neighborhood to secure a sufficient supply of seed for filling his orders. For some years his shipping station has been at Factoryville, although the D. L. & W. R.R. crosses his farm. After much trouble he has induced the superintendent to stop a train at La Plume to receive his freight and express matter and also the mail, which is the heaviest on the line between Scranton and Binghamton. A new depot will soon be erected, which will be one more conquest for him who has given La Plume 'a local habitation and a name.'"

## What Shall the Motive be?

BY ADA S. CUMMINGS.

WHAT shall the motives be  
Throughout the present year?  
Shall they be for evil,  
Or shall they bring good cheer?

SHALL the Angel Reapers  
E'er search for wheat in vain?  
Or shall they find a store  
Of ripened, golden grain?

SHALL my heart be growing  
A crop of evil deeds?  
Or carefully produce  
A harvest of good seeds?

SHALL my hands cease labor  
Because the work is hard?  
Or shall I, with new vigor,  
Discouragements discard?

SHALL my life be wasted,  
And time be spent in vain?  
Or constantly improve  
Each moment for my gain?

SHALL I cultivate the thorn  
And let the roses go?  
Or tares cast in the fire.  
That flowers sweet may grow?

WITH careful watch, I'll give  
The tares and thorns no room;  
Rich graces from the spheres  
Within my heart shall bloom.

THAT, when the Angel Reapers  
Bind up the golden grain,  
They find in me a harvest,—  
A life not spent in vain.

—Church Union.

The world is said to be ruled by four boxes—the ballot-box, the jury-box, the cartridge-box and the band-box.



## SEED-TIME AND HARVEST.

From Our Special Correspondent.

### A TRIP ACROSS THE CONTINENT.

(Continued from Dec. No.)

Tuesday Morning, Oct. 3, 1882.

Daylight found us at Evanston, Wyoming. Ground white with snow and air frosty, but the sun came out pleasant and with the exception of colds, sore throats and tooth-ache, we all feel well. We soon enter Utah and are expecting some grand scenery. Echo and Weber Canons. We expect to reach Ogden at 2, P.M., to-day, where we change cars and commence the Central Pacific R.R. We meet the mail train at Weber, where I will try to mail this letter. We met the first Utah apples and got 12 or 15 cents. Had breakfast of coffee and crackers, though we had plenty of bread, cake, pies, &c., offered us at cheap rates at Evanston. We use coffee because the water is not good. We have still plenty of cake, currant bread, jelly, butter and honey in our basket. Have bought no eatables except coffee, milk, crackers, lemons and apples. There is no trouble to get plenty of meat; good water is the greatest lack; much of the way it cannot be had. We have got along splendidly so far, and feel well. We have avoided drinking much water, or eating between meals. There are people in the car who have made the trip three or four times, and we learn much of them. There are forty souls in the car, counting the children, and there are six cars besides the freight cars; therefore there are about two hundred of us in all, and there are seven such trains on the road all the time, besides the first class trains. About 1500 emigrants on the road all the time; few are going east now. At Echo City, a beautiful spot in Echo Canon, we stopped forty minutes, and I got out to look around and mail this letter. It is a beautiful day and we all feel first rate. Just passed Pulpit Rock, and it is still in view.

OGDEN, Utah, Tuesday, Oct. 3rd, 3 P.M. Arrived here safe and sound at 2 P. M. Got a good dinner with the Mormons, and changed cars. The Central Pacific car, which we are now in, is better ventilated, than the Union Pacific car, and all are in good spirits,

This Valley is still more beautiful than when I saw it last, and we have had the best day so far. We are both well, and enjoying ourselves, but it is a long way yet.

TOANO, Nevada, Wed., Oct. 4, 7 A. M. Night overtook us at Promotory Point, Utah, and daylight found us this morning in the Great American Desert, a great barren, gravelly plain, with snow-clad mountains all around us. We stop here for breakfast, near the silver mines, where they ship silver bar and bullion by the train-load. The sun shines brightly, though the air is cold. They had a hard rain somewhere in Utah last night. The ground is white with snow here. We continue as well as could be expected, and enjoyed our breakfast.

ELKO, Nevada, Wednesday, Oct. 4, 5 P. M.—We have been passing through desert and snow-storms all day. Arrived here all safe so far. We are 600 miles from San Francisco. A long and weary way it is.

MILL CITY, Nevada, Thu., Oct. 5, 7 A. M. Daylight found us at Winnemucca, in the Humboldt valley. We are well this morning. Enjoyed our breakfast of bread, crackers and coffee. We are in a long wide valley, a stock and mining country; no crops raised here without irrigation. The sun shines pleasant this morning; the mountains are covered with snow. We pass Indians, and Indian tents. Are nearing Humboldt. There are millions, and millions of dollars worth of silver, in the rocks, in the mountains all around us. If we could only get it!

We reached Humboldt at 8 o'clock, A. M. Here they have a supply of water and irrigate. Here are green fields, fountains, large orchards loaded with fruit, gardens, all kinds of vegetation, and trees growing very thriftily. The contrast is striking, we have been in the desert so long. This is an oasis, one little green island, a breathing spot. It would look beautiful anywhere, but here it is more than beautiful. It shows us what the whole desert might be, with a water supply. They may do it yet by Artesian wells, but there are not natural streams or springs enough to irrigate much of it. Here we get the first good water on the route. We have two more nights to



spend in this car. We all feel better than we did yesterday, with the exception of an old lady from California, who is quite sick this morning. We have fixed her a good bed, and she rests quite comfortably. The greatest trouble with us is taking cold, as the car is sometimes too hot, and sometimes there is too much draft of cold air. Chinamen are becoming quite plenty along the road. The Humboldt river is on our right. At Rye Patch, we stop twenty-five minutes for breakfast: as we have had ours, we spend the time in looking around. Herds of cattle here live and get fat on sage-brush and grease-wood. We both feel better this morning, than we have any morning yet. We had a good night's rest, as the air was pure and cool, and we enjoyed a breakfast of coffee and crackers. We make our own coffee and use condensed milk. Still have plenty of bread and cake, apples, jelly, &c., in our basket, that we brought from home. Our throats are a little sore from the alkali water, but we use coffee instead of water, and think it will not make us sick. It is very pleasant to-day, the sun shines warm and the air is pure and bracing. Snow is in sight on the mountains. The sick ones feel better and the babies are all well. There are eleven children on this car. There is not a person in the car that we would want to put out. We begin to feel acquainted and have lots of fun. We get out of our bunks in the morning, wash and comb, (have a wash-basin, bought in Omaha) put water and coffee in our tin pail, and boil it on the stove, then eat our breakfast in our seats, wash the dishes, sweep our car, and then read guide book, look at the country, write, talk, &c. At stopping places, get out and walk and run around, and stand in the sun, then jump on, and off again. I will mail with this, a paper containing some vegetation from the summit of the Rocky Mountains. Also a jack rabbit's tail, I pickled up on the top at Creston, (a more desolate, dreary, windy place than which it would be hard to find,) I suppose the wind blew it off. The train is moving very slowly against a hard wind.

The car is divided into twelve sections, of two seats each, two seats face each other, and two passengers in a seat. The seats

slide out and backs slide down, forming a bed for two. Overhead is a bunk, like a rack for drying apples, that lets down and forms a bed for two, half way up to the ceiling of the car. We stow our baskets, and luggage under the seats. The cars are neat and clean, and furnished with fuel and water. We have been going down the western slope since noon, and will reach Ogden to-morrow at 2, P. M. Ran into a snow storm near Table Rock, this forenoon, and a sand-storm in the Red Desert. It now looks as wintry as a Pennsylvania November.

COLFAX, California, Friday, Oct. 6, 9 A. M. Night found us at Reno, Nevada, and at daylight this morning we were up in the Sierra Nevada Mountains, in the snow sheds. The ground was covered with snow, and still snowing, and looked dreary, wild, and desolate, like mid-winter. We passed Cape Horn, and whirled through the hydraulic regions, through wild scenery. The snow changed to rain, and we came into a warmer climate, where were gardens, fruit trees, grapes, &c. We are now about 200 miles from San Francisco:

SACRAMENTO, Cal., Friday, Oct. 6, 3 P. M. Arrived here all O. K. Snowbanks this morning, oranges, figs, grapes and flowers growing around us before noon, up in the foot-hills. We feel the best to-day we have since we started. Most of the crowd in the car say good-by to us, and get out here. It seems like parting from old friends. It is cloudy and rainy here to-day. Their rain came early this year. Farmers are plowing stubble, for winter grain.

SAN FRANCISCO, Saturday, Oct. 7th. We arrived safely at the American Exchange Hotel, at 6 o'clock, this morning. It is rainy, damp and foggy, but warm. The early rains through California, are unusual and are doing much damage to grain, raisins, &c. We are quite well, and glad to get a stopping place, after eleven days of rail-road travel. It is ten days since we have had our clothes off.

(To be continued.)

Seeds when sown are like gate posts. They are planted in the earth to prop-a-gate.



## ANSWERS TO CORRESPONDENTS.

Lock Haven, Pa., Dec. 7th, 1882.

Isaac F. Tillinghast; Dear Sir,—I write to inform you of my last summer's gardening. The Early Ohio Potatoes did well and all the other seeds also. The Early York Cabbage I think the handsomest I ever saw. I should have sent to you for late cabbage plants but a gardener here told me he had a lot of fine plants he would sell for \$2.00 per 1000, so I took 2000 plants and I believe I had every kind of cabbage there is grown in this state or the next, but for cabbage I don't think I cut 100 heads. [They could not have been from our "Mixed Cabbage" seeds. ED.] I promised once to give you a little story about that same man and turnip seeds. Two years ago last summer I wanted him to join me in sending to you for turnip seeds. He said no, "he could get it cheaper in town and just as good." Well, I had very nice turnips from the seeds I received from you. He sowed about two acres and it came on fine. I said to him one day, "how does your turnips come on?" "O, I did not get one!" said he, for what I sowed was MUSTARD!" Cheap seed a great saving indeed!

I shall try early cabbage again next spring, shall need about 5000 plants. What can you supply them for that have been wintered over? [We are wintering none. Better plant the seeds in February and grow them yourself. ED.] My ground is not very good. What do you think of guano, or ground bone, and how shall I use it?

Yours Respectfully, JOHN INGRAM.

[We use Lister Bros.' ammoniated Bone Phosphate largely. The safest way to apply it, and we think the best way is to scatter it broadcast and harrow it in. It is hard to realize how powerful it is, and if used in the hill we are apt to get it too strong and injure the young plants more than we benefit them. ED.]

## AN "INFLUENTIAL" WOMAN.

Last winter we inserted in several papers a large advertisement offering SEED-TIME AND HARVEST in combination with purchaser's choice of over fifty standard kinds of vegetable seeds. Late in the season we received the following letter written on a scrap of paper just 3½ by 4½ inches in dimensions;

"Dear Sir: Please send some of all your seed mentioned in this advertisement and I can introduce them and you can find ready sale for them here as I have much influence here so by sending them to me free you may gain a great deal. I am your friend,  
Mrs. ————."

This was enclosed in a self addressed envelope belonging to another firm, turned, repasted, and directed to us, but left unsealed and forwarded under a one cent stamp, all of which went to show plainly the mighty "influence" which our fair correspondent must exert. The "influence" evidently dropped out of the unsealed letter before it reached us, however, for when we had to pay the five-cents due on the unpaid letter, (postage is double if not paid in advance,) we did not feel influenced to send two or three dollars worth of seeds on that order.

Bloomington, Md. Dec. 4, 1882.

Please be kind enough to publish in January Number, (to decide a question here) which of the following kinds of chickens are the best layers, and about how many each kind will lay in a year, Langshans or Plymouth Rocks. Your article on celery in November Number is worth to me the whole year's subscription to your magazine even if it cost \$2.00 per year. By complying with my request you will oblige a subscriber.

H. N. WALTERS.

This is really about as hard a question to answer as it would be to ask what kind of fish you could catch the most of in a day. The results might vary greatly with different individuals and under different circumstances. Both are large bodied fowls, profitable for meat as well as eggs. We have had but one year's experience with the Langshans and were well pleased with them. The cocks are lordly looking fellows, and their prolonged crow is worth \$2.00 per year to any farm. We shall be pleased to publish egg reports from any of our subscribers which will give direct evidence upon the question of our correspondent.

Dunbar, Pa., Dec. 6, 1882.

Mr. Isaac F. Tillinghast,

Dear Sir, I would be glad if you would give an opinion, (or rather conviction from your own experience,) in SEED-TIME AND HARVEST as to the best manner of cutting potatoes to plant. I have been cutting to one eye and dropping the pieces about eight inches apart, using about 17 bushels per acre and getting about 140 bushels per acre. I planted 6½ acres of Peerless in that way last year, using about 300 lbs. of Baugh's Potato Phosphate in the row, after first putting a little dirt on the seed, then covering again.

Very Truly Yours, C. H. Kimball.

We have planted many potatoes in a very similar manner with good results, but now that the Colorado Beetles are so destructive we pre-



fer to have the peices larger than single eye cuttings, so that there will be more substance to shoot the young plants forward more rapidly and make a large growth of vine as soon as possible. For this and other reasons we are becoming more favorably impressed with the method of cutting to about two eyes, and putting the pieces about six inches apart in hills which can be cultivated both ways. We do not expect to see any potato bugs next spring, however as there was no second crop last summer or fall in this vicinity. No strong fertilizer should ever be used in the hill without thoroughly mixing it with the soil, or placing soil between it and the seed.—ED.

New London, Conn., Dec. 10, 1882.

Pubs. SEED-TIME AND HARVEST:

How long before spring sitting should fowls be separated to avoid the risk of mixing different breeds?

T. V. H.

Mr. C. S. Cooper, an excellent authority, in answer to this question gives the following reply in the Rural New Yorker: My practice is to separate the males from the female birds about the first of July of each year, for two reasons. First from that time scarcely any chicks are raised. Second, as the eggs are mainly used for culinary purposes they do not require to be fertilized. The males and females have rest until about the first of February when I mate them for the breeding season. I find the eggs are more fertile and in case persons desire to procure good stock at a small cost after the breeding season is over they will be disappointed in raising chicks from them. Breeders differ in opinion in regard to distinct varieties roaming together. I am of the opinion that they should be mated and separated at least one month before the eggs for hatching are laid, if pure stock is required.

Tunkhannock, Pa., Oct. 24, 1882.

I. F. Tillinghast;

Dear Sir, The seeds I purchased from you the past spring were satisfactory with one exception. The Pansies were superb. I never had better. The Verbenas gave twice as many plants for the money than Peter Henderson's and every thing else as good as possible, except Flat Dutch Cabbage from one oz. of seed had only thirty-five plants. Don't say they were good, for I sowed them by the side of your Fottler's and Winningstadt, and they were good. Did you find any trouble from your own sowing? I fortunately had no serious loss from the matter for most of my neighbors raise their own

plants in a favorable spring, but I was surprised at the seed not growing. I shall test my seed another spring and know before the sowing season if they are all right. Yours Truly,

F. P. AVERY.

We are sorry indeed, friend A., that you have to mar your report with an exception, but such a one occasionally, though rarely, comes in. We plead guilty on the Flat Dutch Cabbage. Our own seeds were sold all out and we purchased a supply from a grower who had always sold us first class stock. A number of orders accumulated before the new supply was received, so we could not well wait to test its vitality before sending some of it out. We soon found however just as you state that but a small portion of it would grow, so we sent it back from whence it came and procured the best we could find elsewhere. It is to cover just such cases as this, which may happen, (though we use every possible precaution to prevent them) that we warrant all our seeds to amount paid for them, and we shall be happy to refill any such orders without charge. We have frequently noticed that the Flat Dutch loses its vitality by age several years sooner than other varieties. Some kinds will grow readily if six years old, while we have known that to spoil in three. Our Cabbage seeds this season are all the growth of 1882.

The Belle Potatoes, the seed of which I received from you, was awarded first premium at each Fair. I had twenty six varieties of potatoes to compete with, but the Belle was the favorite. I had 87 lbs. from 1 lb. of seed. There could be no better choice than the Beauty of Hebron for early and the Belle for main crop. The seeds I bought of you gave good satisfaction and proved to be good and true seeds. I received the first premium on the following vegetables, seed bought of you; Belle Potatoes, Marblehead Squash, Henderson's Early Summer Cabbage, Early Jersey Wakefield Cabbage, Parsnips, Yellow Danvers Onions, New Egyptian, Crosby's Sweet, and Waushakum Field Corn, Early Bassano Beets and Canada Victor Tomato. I received cash on premiums enough to purchase my coming years supply of seeds. The seeds other parties received through me from your house gave entire satisfaction. Respectfully Yours,

H. D. LOVELACE.

[A very good showing, indeed friend L. We study to please, and earnestly hope never to disappoint you.—ED.]

Latest from Lily and Sunflower Circles. Embroidered mustard plasters are now recognized as a necessary feature of æsthetic medication.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV. NO. I.                      WHOLE NO., XV.  
LA PLUME, LACKAWANNA Co., PA., JANUARY, 1883.

In wintry days, when weary earth  
Lies cold in pulseless sleep,  
With not a blossom on her shroud,  
It is too late to reap.  
Too late! too late!  
It is too late to reap.

IF YOU RECEIVE a copy of SEED-TIME AND HARVEST that you have not ordered, don't be afraid to take it from the post office thinking a bill will be presented for it. We do not send out any copies "on trust" to any one and if you are so fortunate as to receive a sample copy by mail, you may feel assured that it is a present to you, and we trust that you will carefully examine it and see if it is not worth your while to subscribe for it.

THE STORY entitled "Seed-Time and Harvest," on our 8th page is a literary curiosity in that it contains no other letters than those found in its title. Miss Dakin has exhibited considerable ingenuity in composing this little story, and we doubt if there are a dozen others among our thousands of readers who could do as well.

But when comes the winter dreary;  
Though the hearth fire blazes cheery,  
And evening guests are merry  
As in years gone by,  
Fain I'd see the spring buds bursting  
On the tree-tops bare and brown,  
Aught but this continuous sifting,  
Of the white flake falling down.

How you can get it. There are several ways in which any person who wishes it can obtain SEED-TIME AND HARVEST at a very trifling cost. The subscription price has been fixed at the low rate of 50 cents per year and we shall endeavor to make every number well worth that sum. We will

accept \$1.00 as payment for four subscriptions sent in at one time, so if you will get three of your neighbors to subscribe at 35 cents each your own copy will cost you nothing. Elsewhere in this issue we publish a very complete list of "Reliable Seeds at Honest Prices," which comprises the very best varieties of Vegetable and Flower seeds, and at low rates. At the head of that list will be found an offer to send SEED-TIME AND HARVEST for one year free to any person who will order seeds from that list to the amount of \$2.00 or more. These may be either Vegetable or Flower seeds in packets, ounces or pounds as you may desire. If only Flower seeds are wanted we make on page 32 the best offer yet, which is to send your own selection of Flower seeds from our list to the amount of 50 cents, and a copy of SEED-TIME AND HARVEST for one year, to any person who sends 50 cents in postage stamps and a list of the seeds desired. If you will show that offer to your friends and induce them to send also, you may add *ten cents* worth of Flower seeds to your own list for every additional half-dollar you send, and each subscriber will receive SEED-TIME AND HARVEST and his own selection of seeds to the amount of 50 cents for his premium.

How to send Money by Mail. The lack of fractional currency no doubt debars many from sending away for small things which they desire, as silver is unhandy and unsafe to send in letters. If you wish to send less than one dollar, or make change for fractional parts of a dollar, send us clean 1-cent, or 2-cent postage stamps, and we will take them at face value. Please do not send over one dollar at a time in postage stamps, if greenbacks can be had, and do not send 2-cent stamps if you can get any other denomination. We have a large stock of them on hand now and much prefer any other denomination. If you send over one dollar in money in a letter have it registered. If you feel that you cannot afford the expense which is but ten cents, deduct it from the amount enclosed. If you prefer to send a money order have it drawn on Scranton, Pa., post-office. If you have an account with a bank send your own



check, or if the bank is near by get a draft on New York or a cashier's check. Few banks charge their depositors anything for such favors. Though fractional currency was a great convenience there are many ways to get along without it.

**Our Best Offer.** On receipt of 50 cts., in 1-ct., 2-ct., 5-ct., or 10-ct. postage stamps, (no 3-ct. stamps wanted,) we will enter the name of the sender upon our subscription books and send SEED-TIME AND HARVEST monthly for one year, and send also your own selection of Flower seeds from our list, to be found elsewhere in this issue, to the amount of 50 cents. Thus the seeds are free as a premium for your subscription. For every friend whom you will get to join with you in sending 50 cts., with your own, you may select 10 cents worth of Flower seeds additional as a present. Any person sending \$1.00 instead of 50 cts., for one subscription, may select either Flower or Vegetable seeds *in packets* to the amount of \$1.00 as a premium, and for every \$1.00 which you send for your friends for this purpose, you may select Flower or Vegetable seeds *in packets* for your own use to the amount of 20 cents as an additional present. Now go ahead friends, and get as many subscriptions for us as you can upon these very liberal terms. You can soon get seeds enough for a family garden in this way.

*Half-buried in the winter snow  
 The Old Year stands and lifts his hands  
 Imploringly;  
 While over all the frozen lands,  
 Or fast or slow, the wild winds blow  
 A song of glee.*

Again in our Club List will be found some very liberal offers. In some cases SEED-TIME AND HARVEST will be sent in combination with other journals at less than the publisher's price for the other paper alone. With so many very liberal offers all who have the least desire to have our monthly visits continued throughout the coming year will find a way to secure them. See our list on the next page.

Fifty thousand copies in this issue, and two tons of paper to print them on.

### A \$50.00 Prize Word Hunt.

The readers of SEED-TIME AND HARVEST have during the past year several times been favored with Prize Word Hunts which have proved interesting and instructive to many, and quite profitable to those who have been smart enough to come out ahead in the races. As this is a season of comparative leisure with many of our readers we have decided to open another competition. We therefore hereby offer a prize of \$50.00 in gold, to be divided into four parts of \$20, \$15, \$10, \$5, each, respectively, to be awarded and paid to the four persons who shall send us the four most complete lists of the different words to be found in this (January) issue of SEED-TIME AND HARVEST, each containing eight or more letters and having no letter repeated. The competition is to be governed by the following:

#### Rules and Regulations:

1. All lists must be made *strictly* alphabetical. Every word found out of place will be checked as an error.
2. Number each word in your list with a figure at the left, and after each word place the page upon which it is first found. Let the letters *a, b, c,* and *d,* designate the four cover pages.
3. If a word is to be found two or more times give it once only, naming the page upon which it is first found.
4. All foreign words, parts of compound words (printed with a hyphen) typographical errors, misspelled or misprinted words, proper nouns, abbreviations, and all words which are not to be found in the body of Webster's Unabridged Dictionary are to be excluded, and if any such are found in a list they will be checked as errors.
5. If the same word is to be found in both the singular and plural form, put the singular only on your list. Plurals will only be counted in case the singular form is not to be found in the magazine. Strike out all words used in the possessive case.
6. If you are in doubt as to whether a word is allowable or not refer to the Dictionary. If found printed just as it is there it is allowable. Otherwise not. The only



exception to this rule is where by reason of a worn or imperfect type a letter may not print plainly in a word. In this case if the sense shows the letter is required and the spacing shows that it is there but simply fails to show plainly, you should supply it and count the word, for it is probable that in the other copies it may show plainly.

7. Competition will be free to all whose names are upon the subscription books of SEED-TIME AND HARVEST on March 1st. If you have not subscribed in any way for 1883, 25 cents in silver or postage stamps must accompany your list, as an entrance fee.

8. Competition closes March 1st, and the awards will be published in our April number.

9. If any "blind" points come up and puzzle you, remember it is not our intention to have any "dark" places or "catches." We mean this for a fair competition. Therefore use plain native common sense in selecting the words and interpreting the exact meaning of these rulings.

**Mixed Vegetable Seeds.**

As an experiment of our own we offered in our seed catalogue last season, mixed varieties of Vegetable seeds, and we are pleased to announce that the plan has been received with such favor, and given such general satisfaction to our patrons that we shall continue it. The idea is this. There are few private gardens extensive enough to afford room for a quarter of the different varieties offered of each species of vegetables. Consequently the planter is at a loss to decide which kinds to select and which to omit from his order to give him a succession of good vegetables. Take the item of cabbages for example. There are in our list no less than seventeen varieties, and every one of them has some distinctive feature rendering it useful and valuable. Now who would not, for family use, prefer to plant a package or ounce composed of a mixture of all these varieties rather than to keep any one or more separate. It is to be understood that these seeds are not mixed and degenerated in growing, but are pure fresh seeds of the different varieties finely mixed

before being put up for sale. A ten cent paper of these mixed cabbage seeds will produce plants enough to keep an average sized family well supplied with cabbage from early in July when the earliest will begin to mature until winter and longer if the latest kinds are properly taken care of before the frost injures them. And so with beets, cauliflower, cucumbers, melons, and various other kinds.

Of course market gardeners and planters who put out large quantities will want varieties unmixed as they will sell to better advantage and it is desirable to have the crop all mature as nearly at the same time as possible. In order that our friends may give the mixed seeds a trial in their family gardens we have put a special collection of them at a reduced price which will be found elsewhere.

*OUR CLUBBING LIST.*

**The Best American Periodicals For Country Readers, at Lowest Prices.**

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST, (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

American Agriculturist.....	\$1.10
American Rural Home.....	1.00
Agricultural Epitomist.....	.40
Country Gentleman.....	2.25
Demorest's Magazine.....	1.75
Farm and Garden.....	.35
Farm Journal.....	.35
Farm and Fireside.....	.50
Fruit Recorder.....	.75
Floral Cabinet.....	1.00
Gardener's Monthly.....	1.75
Green's Fruit Grower.....	.20
Household.....	.90
Harper's Magazine.....	3.50
New York Tribune, Weekly.....	1.25
New York Tribune, Semi Weekly.....	2.20
Poultry World.....	1.00
Practical Farmer.....	1.00
Rural New Yorker.....	2.00



St. Nicholas.....	2.75
Scientific American.....	2.75
Scribner's Monthly (Century).....	3.60
Toledo Blade.....	1.25
Vick's Monthly.....	1.00
Western Plowman.....	.50
Youth's Companion.....	1.75

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

—◆—

This is what she says now :

I never dreamed of such a fate  
When I a lass was courted—  
Wife, mother, nurse, seamstress, cook,  
house-keeper, chambermaid, laundress,  
dairy-woman and scrub generally, doing  
the work of six  
For the sake of being supported!

—◆—

### THE EDITOR'S TABLE.

Our table fairly groans this month with its weight of Literary Treasures, and we regret that our columns are already so filled that we cannot give even a passing notice to any but the leading Magazines.

THE NORTH AMERICAN REVIEW for January opens with a symposium in which three of the most prominent advocates in this country of the "Revision of Church Creeds," namely Rev. Dr. Newman Smyth, Rev. Henry Ward Beecher and Rev. Dr. Lyman Abbott, set forth the grounds upon which such revision is deemed necessary as a defense of revealed religion against the encroachments skepticism, and as an adjustment of the relations between faith and science. "University Education for Women," is discussed by Prof. W. Le Conte Stevens, who, though he zealously advocates the measure, commands the attention and respect of its opponents by the eminent fairness with which he states the adverse arguments. "American English," by Gilbert M. Tucker, is a spirited defense of our *de-à-tant* fashion of English speech against the aspersions of sundry British critics. The Rev. Dr. H. W. Thomas writes on "The Responsibilities of Progressive Thinkers," Dr. David Hunt on "Bigotry in the Medical Profession," and Charles T. Congdon, under the singular apt title of "Adulteration of Intelligence," exposes some of the grave evils to be apprehended from the monopolization of telegraph lines, press associations and influential public journals. Published at 30 Lafayette Place, New York.

DEMOREST'S MONTHLY MAGAZINE for February is unusually varied and attractive, many of the poems and prose articles having especial reference to the

season of St. Valentine. The articles most worthy of note are "Proposals of Marriage," "A Visit to the Home of Paul Hayne," "How we Live in New York," by Jennie June, "Society at the Capital," "French Weddings," "Artistic Dressing," and "The Young Hero of Fashion." The department of fiction is supplied by several short stories, and the continuation of Mrs. Alexander's admirable serial, "The Admiral's Ward." The "Poets' Corner" is usually well filled, many of the poems being very meritorious. "Current Topics" are discussed in a forcible and pleasant style, and every department contains much that will be found both useful and interesting. The present number is profusely illustrated, the frontispiece being a superb oil picture of Love, which is a fine work of art that will find many admirers.

BEAUTIFUL CARDS. We have received from the Forbes Company, 181, Devonshire St., Boston, agents for Raphael Tuck and Sons, fine art publishers, London, England, some of the most beautiful Holiday and Remembrance cards we ever saw. Most of them are denominated "Royal Academy Cards," on account of the designs having been made especially for those publishers by members of that famous body of artists and painters. These designs are executed in the highest style of the printer's art and are fully equal to any hand painted work. Our American Chromo painters will have to look to their laurels or they will lose them, as our foreign cousins are far ahead in our estimation of any work in that line that we have ever seen sent out by any American houses, the celebrated Prangs not excepted. We can confidently recommend to our friends, teachers and superintendents of schools and others desiring to secure cards that will be a joy forever to send to the Forbes Company for them.

THE LADIES' FLORAL CABINET closes its eleventh year with the December number. Its new managers have made most decided improvements with each issue, closing the year with the best number we have ever seen. Any of our readers are entitled to a sample copy of the FLORAL CABINET at half price (six cents) by mentioning our publication when they send. We have arranged to club the LADIES' FLORAL CABINET and our paper at \$1.25 for both publications, and that entitles all who order the two at one time to the FLORAL CABINET'S specially grown seeds or bulbs, which go *post free* to all who order through this office. See advertisement on 3rd cover page.

THE COTTAGE HEARTH is an Illustrated Magazine of Home Arts and Home Culture. Contains more reading of Practical Domestic Worth and Positive Home Interest than any other magazine of its price. Each number contains Portraits and Sketches of Distinguished Men, Superior Home Music, Floral Articles, Stories, and Adventures, Choice Poetry, the latest Fashions, the Mother's Chair, the Student's Corner, the Young Folks' Window, all fully illustrated. The subscription price of Cottage Hearth is \$1.50, but by special clubbing arrangement we are enabled to supply both it and SEED-TIME AND HARVEST for \$1.25.

—◆—

"DON'T kill the toads, the ugly toads, that hop around your door. Each meal the little toad doth eat a hundred bugs or more. He sits around with aspect meek, until the fly has neared, then shoots he forth his little tongue like lightning double-gear'd. And then doth wink, and shuts his ugly mug, and patiently doth wait until there comes another bug."



## Advertisements.

No advertisements are inserted in our columns unless we have reason to believe the advertisers trustworthy, reliable parties, whom we would ourselves send orders to if we wanted the articles they offer. Our advertisers and subscribers generally understand this, so when writing to any of them it will be an advantage to yourself and all concerned if you will mention SEED-TIME AND HARVEST.

### FARM AND GARDEN.

Every reader of the Seed-Time and Harvest, be he farmer, fruit grower, trucker, or florist, should see our Monthly, *the "Farm and Garden."* No matter if you take twenty papers now, you will be pleased and interested with ours for it is different from them. Printed on the best of paper, illustrated in the finest manner, our price is yet the lowest. Our subscription plan is this. We do not deal in watches, seeds, or novelties; and offer nothing but our paper, and give our whole attention to it. Our price is 50 cents a year, 25 cents for 6 months trial, and if after you see the paper you like it, we will send it to a club of six for \$1.50, thus giving our handsome monthly for 25 cents a year, postage paid. Send us either American or Canada Stamps, and do not fail to see our paper before subscribing for next year.

Address, **FARM AND GARDEN,**  
14-15 125 S. 4th St., Philadelphia, Pa.

**IVANHOE APPLE,** keeps until July. I am branch Head quarters for this fine, yellow, late-keeping, juicy apple. Scions or buds \$2 a dozen; Trees, \$1 each. I am also Headquarters in the New England and Middle States for the **TEXAS Red Hybrid BLACK-BERRY.** The trade supplied at low rates. **BIG BOB, JAMES VICK, Ray's Prolific, Jersey Queen & 40 other Strawberries; HANSELL and other Raspberries; New Grapes, Fay's Currant, Blackberries, &c.**



**KIEFFER** Pears, Apple and Peach Trees as specialties. My Hand-book, *The Fruit Grower's Friend,* price 30 cents. Catalogues free. Mention this paper. Address, **R. H. Haines,**  
12-15 MOORESTOWN, N. J.

### "SOUTH AND WEST,"

ONLY 50 CENTS A YEAR.

It is a first-class Agricultural paper, published semi-monthly. All who send us their subscription with 50 cents, between now and December 1st, we will send them the paper until January 1st 1884. Sample copies, containing Premium Lists, sent free on application. Address "SOUTH AND WEST," 320 N. 3d street, St Louis, Mo. 13-18

### PURE BONE MEAL —FOR— CHICKENS.

\$4.00 per hundred pounds by freight or express at purchaser's expense. 25 pounds or more at hundred pound rates. 10 pounds by express for 50 cents. Sample by mail for 10 cents.

13tf **Isaac F. Tillinghast,**  
La Plume, Lack'a Co., Pa.

**DESIGNS** made of preserved natural FLOWERS on **Holiday Cards,** a Beautiful Novelty that sells at sight, Sample for 5 3-ct. stamps. Circular free. **ARNOLD PUETZ,** Jacksonville, Fla. 16

**PHILIPS' Pearly White,** the world's favorite. Sample Box, 25c. Agt's Harvest. **J. G. Phillips & Co.,** Easton, Pa.

**50** Elegant Chromo Cards with name, 10 cts. 14 packs, \$1.00. **J. F. Mader,** Chillicothe, Ohio.

**GREAT DISCOVERY!** PHOTOGRAPHS made without Camera or Chemicals. Done by preparing paper so sensitive to the light that it copies anything placed between it and the sun. Full instructions sent for 25c. 13\* **Garrison & Co.,** CEDAR FALLS, Iowa.

### STANDARD PLYMOUTH ROCKS.

—EXCLUSIVELY!—

Gilman's renowned strain. Send for Circular. 15-17 **W. C. HART,** Walden, N. Y.

HEADQUARTERS in the SOUTH for

### Italian Bees, Queens,

the best Comb Foundation and supplies. If you want **Early Queens and Bees** send for my new Illustrated Catalogue for 1883. Address 15-17 **J. P. H. BROWN,** Augusta, Georgia.

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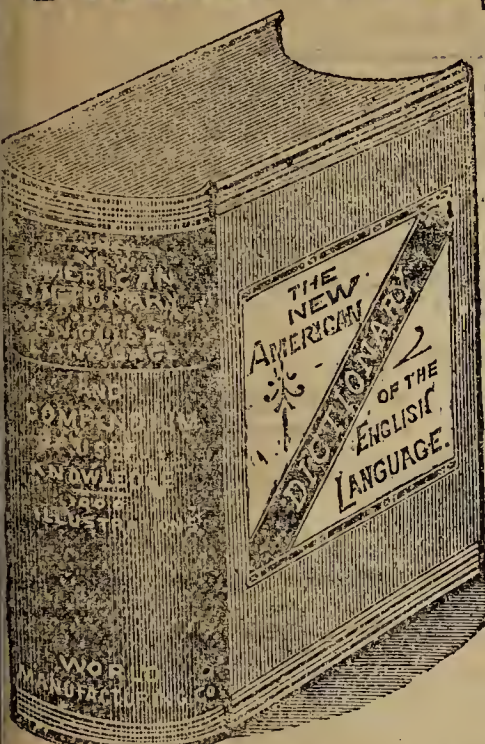
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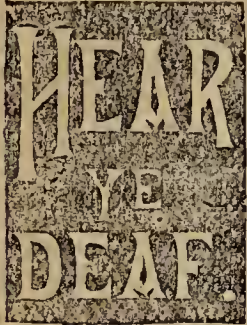
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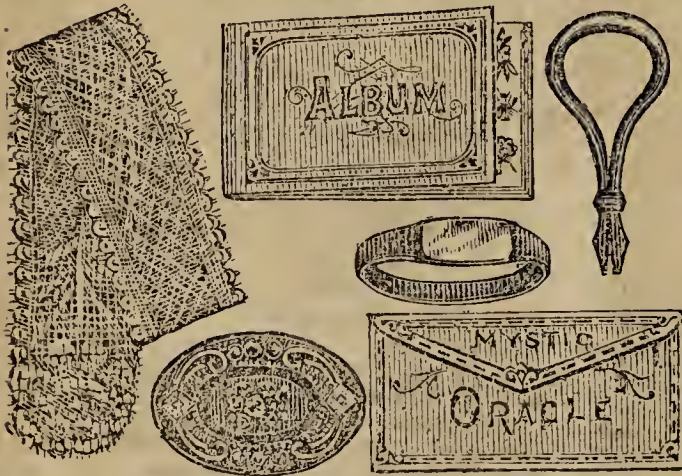


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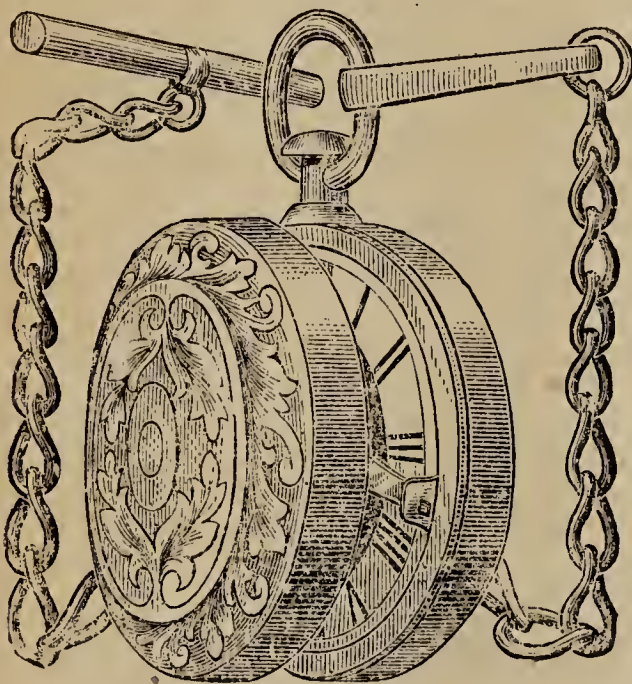
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The Solar Watch is the latest wonder. It will denote the time accurately AND CAN NEVER GET OUT OF ORDER. It consists of a compass (worth alone more than 50 cents), a dial and indicator. The instrument being pointed due north, the exact time is infallibly given. For Boys it is just as good as a \$15 watch; for Travelers it is in some respects better, as it always gives the exact time of the place they are in; for Sportsmen it is invaluable and indispensable; for School Teachers it is a valuable addition to their scientific instruments. The Solar Watch can be carried in the vest pocket, is instantly adjusted, and will denote the exact time. **Boys, just think of it. A Watch for 25 Cents.** Every statement guaranteed or money refunded. This is no humbug, and the Solar Watch will do just what we say. IT IS NOT A TOY: IT IS A WONDERFUL INSTRUMENT, MADE ON SCIENTIFIC PRINCIPLES, ACCURATE AND RELIABLE. The Compass is absolutely correct, and is enclosed in a beautiful nickel case. It must not be confounded with the so-called magnetic time-pieces, which have been exclusively advertised. The Solar Watch has never been advertised for less than 50 cents, but in order to introduce our elegantly illustrated youths' paper "THE GOLDEN ARCOSEY," we will send you the same a trial month and the SOLAR WATCH FREE, if you will send us 25 cents to pay postage and packing expenses. Postage stamps taken. Address **E. G. RIDEOUT & CO.,** 10 Barclay St., New York.

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Finch's PROLIFIC & MANCHESTER,  
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Choice New and Old Small Fruits, Green-house Plants, etc., etc. See Illustrated Catalogue, free.

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12-15

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I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I re-fill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

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**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if **packets only are taken**.

Address **Isaac F. Tillinghast,**  
**LaPlume, Lack'a Co., Pa.**

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

### Beans. 2-oz Pkt. Lb. Peck.

<b>Lemon Pod Wax</b> .....	15		
New Prolific Tree Bean.....	15		
Crystal White Wax.....	10	40	2.50
Early Feejee.....	10	30	1.50
Early Black Wax.....	10	30	2.00
Jones's Ivory Pod Wax.....	10	40	2.00
Ferry's Golden Wax.....	10	40	2.00
Large White Marrowfat.....	10	25	1.50

### Pole Beans.

Concord.....	10	30	2.00
Large Lima.....	10	30	—
German Wax.....	10	30	2.00
Greer's Improved Lima.....	10	30	—

### Corn.

Red River, New.....	10	30	1.50
Early Marblehead.....	10	30	1.50
Amber Cream, New.....	10	30	1.50
Early Minnesota.....	10	30	1.25
Crosby's Extra Early.....	10	30	1.25
Black Mexican.....	10	30	1.25
Stowell's Evergreen.....	10	30	1.00
New Egyptian.....	10	30	1.25
Red and White Rice Pop-Corn	10	40	—
Wauhakum Field.....	10	30	1.25
Longfellow's Field.....	10	30	1.25

### Peas.

<b>American Racer</b> ,.....	20		
American Wonder.....	15	50	
Extra Early Dan. O'Rourke..	10	30	2.00
Philadelphia Extra Early ...	10	30	2.00
Blue Imperial.....	10	30	2.00
McLean's Little Gem.....	10	30	2.00
Champion of England.....	10	30	2.00
Black-Eyed Marrowfat.....	10	20	1.50

### Asparagus.

Conover's Colossal.....	05	10	0.75
Early Purple Giant Argenteuil	05	20	1.50

### Brussels Sprouts.

New Dwarf.....	05	25	
Carter's Perfection.....	05	25	

### Beets.

Early Egyptian.....	05	10	1.25
Bassano.....	05	10	.75
Dewing's Red Turnip.....	05	10	.75
Yellow Turnip.....	05	10	.75
Long Smooth Blood.....	05	10	.75
Above Varieties Mixed.....	05	10	.75

<b>Mangel Wurzel Beets.</b>	<b>Pkt.</b>	<b>Oz.</b>	<b>Lb.</b>
Yellow Globe.....	05	10	.75
Norbitan's Giant.....	05	10	.75
Webb's New Kinver.....	05	10	.75
Imperial Sugar.....	05	10	.65

### Broccoli.

Early Purple Cape.....	10	60	
White Cape.....	10	60	
Walcheran.....	10	60	

### Cauliflower.

Lackawanna (New).....	20	2.00	
Early Snowball, New,.....	20	2.00	
Earliest Dwarf Erfurt.....	20	2.00	
Early London.....	15	.75	
Nonpareil.....	20	1.25	
Lenormand's Short Stem....	20	1.25	
Above Varieties Mixed.....	20		

### Cabbage.

**American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

Hartwell Early Marrow.....	15	60	
Very Early Favorite.....	15	60	
Early York.....	05	15	2.00
Berkshire Beauty, New,.....	15		
Early Bleichfield.....	10	25	4.00
True Jersey Wakefield.....	10	35	5.00
Henderson's Early Summer..	10	40	6.00
Newark Early Flat Dutch....	10	35	5.00
Large Early Oxheart,.....	05	20	3.00
Early Winningstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	25	4.00
Premium Flat Dutch.....	05	25	4.00
Late American Drumhead....	05	25	4.00
Marblehead Mammoth.....	05	25	4.00
Perfection Drumhead Savoy..	05	25	4.00
Red Drumhead,.....	05	25	4.00
Red Dutch.....	05	25	4.00
Early Dark Red Erfurt.....	10	30	
Above Varieties Mixed.....	10	30	

### Carrot.

Early Short Horn.....	05	10	1.25
Improved Long Orange.....	05	10	1.50
Danvers Orange.....	05	10	1.25
White Belgian.....	05	10	1.00
Above Varieties Mixed.....	05	10	

### Celery.

Golden Hartwell, New.....	15		
La Plume Chestnut, New,....	10	1.00	
Crawford's Half Dwarf.....	05	35	5.00
Carter's Dwarf Crimson.....	10	40	
New Golden Dwarf.....	10	50	
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	50	
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	
Above Varieties Mixed.....	10	30	

### Chicory.

Large Rooted.....	05	10	1.25
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### Cress.

Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	

### Cucumber.

Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	

### Egg Plant.

Long Purple.....	10	50	
Improved N. Y. Purple.....	10	60	
Very Early Dwarf Purple....	10	50	
Striped Gaudalupe.....	10	60	
Long White China.....	10	60	
Above Varieties Mixed.....	10	60	



# SEED-TIME AND HARVEST.

	Pkt.	Oz.	Lb.		Pkt.	Oz.
<b>Endive.</b>				<b>Pumpkin.</b>		
Green Curled .....	05	20	2.00	Large Cheese.....	05	10
<b>Gourds.</b>				Sugar. (Fine for pics,).....	05	20
New Nest Egg .....	15	—	—	Connecticut Field .....	05	05
<b>Kohl Rabi.</b>				<b>Radishes.</b>		
Large Purple,.....	10	35		Early Scarlet Turnip .....	05	10
Early White Vienna .....	10	35		Early White Turnip .....	05	10
Above Varieties Mixed.....	10	35		Long Scarlet Short-Top.....	05	10
<b>Lettuce.</b>				Early Scarlet Olive .....	05	10
Black Seeded Satisfaction ....	05	20	2.00	French Breakfast.....	05	10
Royal Summer Cabbage .....	05	20	2.00	Grey Summer Turnip.....	05	10
Black Seeded Simpson, New,..	05	30	4.00	Golden Yellow Summer (New)	05	10
Hanson .....	05	20	2.00	Summer Varieties Mixed....	05	10
Victoria .....	05	20	2.00	China Rose Winter .....	05	10
Early Curled Simpson .....	05	20	2.00	Black Spanish Winter .....	05	10
True Boston Market .....	05	20	2.00	California Mammoth White..	05	15
White Seeded Tennisball.....	05	20	2.00	Winter varieties Mixed .....	05	10
Black Seeded Tennisball.....	05	20	2.00	<b>Rhubarb.</b>		
Drumhead, or Malta .....	05	20	2.00	Linnæus .....	05	10
Above Varieties Mixed.....	05	20	2.00	<b>Salsify, or Vegetable Oyster.</b>		
<b>Leek.</b>				White French.....	05	15
Large Scotch Flag .....	05	30	4.00	<b>Spinach.</b>		
<b>Musk Melon.</b>				Round Leaved .....	05	05
Nutmeg .....	05	10	1.25	Monstrous Viroflay .....	05	10
Skillman's Netted.....	05	10	1.25	<b>Squash.</b>		
Improved Yellow Cantaloupe	05	10	1.25	Low's Essex Hybrid, New,....	10	15
Green Citron.....	05	10	1.25	Early White Bush .....	05	10
Pine Apple .....	05	10	1.25	Summer Crookneck .....	05	10
Jenny Lind.....	05	10	1.25	Hubbard.....	05	10
Surprise, New, .....	05	15	2.00	Marblehead .....	05	10
Bay View, New,.....	05	15	2.00	Butman. ....	05	10
Montreal Green Nutmeg, New,	05	20	3.00	Mammoth .....	10	30
Netted Gem ... ..	05	20	3.00	<b>Tobacco.</b>		
Hackensack .....	05	10	2.00	Connecticut Seed Leaf.....	10	30
Christiana Orange .....	05	10	2.00	Kentucky Broad Leaf.....	10	30
Above Varieties Mixed.....	05	10	1.50	<b>Tomato.</b>	Pkt.	Hf.-Oz.
<b>Water Melon.</b>				Livingston's Favorite, New,	20	
The "Boss," New, .....	05	20	3.00	Essex Hybrid, New.....	10	.30
Japan Sculptured-Seeded ....	05	20	3.00	Ford's Alpha, New, .....	10	.30
Cuban Queen, New.....	05	20	3.00	Acme, .....	05	.20
Phinney's Early.....	05	10	1.25	Mayflower, New, .....	10	.30
Striped Gipsej.....	05	10	1.25	Red Currant .....	05	.25
Ice Cream .....	05	10	1.25	Paragon .....	05	.25
Mountain Sweet .....	05	10	1.25	Canada Victor .....	05	.15
Ferry's Peerless .....	05	10	1.25	Conqueror .....	05	.15
Cifron. (for preserving?) .....	05	10	1.25	Livingston's Perfection, ...	05	.30
Above Varieties Mixed.....	05	10	1.25	Trophy .....	05	.15
<b>Mustard.</b>				Island Beauty.....	05	.30
White French.....	05	05	60	Green Gage.....	05	.15
Black American .....	05	05	60	Golden Rural, New,...	05	.20
<b>Onion.</b>				Saint Paul, (New) .....	10	.30
Southport Yellow Globe, New	10	40	5.00	Above Varieties Mixed.....	05	.20
Southport Red Globe, fine,....	10	40	5.00	<b>Turnip.</b>	Pkt.	Oz.
Early Red Globe.....	05	20	2.50	New White Egg.....	05	10
Yellow Danvers.....	05	20	2.50	Early White Dutch.....	05	10
Red Wethersfield .....	05	20	2.50	Purple Top Strap Leaf.....	05	10
Large Yellow Dutch.....	05	20	2.50	Long White Cow Horn .....	05	10
White Globe .....	10	30	4.00	Large White Globe.....	05	10
White Portugal.....	05	20	2.50	Yellow Aberdeen .....	05	10
New Queen .....	05	30	4.00	Yellow Globe .....	05	10
White Italian Tripoli.....	05	20	3.00	Golden Ball.....	05	10
Giant Rocca.....	05	20	3.00	Above Varieties Mixed.....	05	10
<b>Parsnip.</b>				<b>Rutabaga, or Swede Turnip.</b>		
Smooth Hollow Crowned ....	05	10	.75	White French, or Sw't German	05	10
Early Round.....	05	10	.75	Skirving's Purple Top Yellow	05	10
New Maltese .....	05	10	1.00	Brill's American Yellow .....	05	10
<b>Parsley.</b>				Shamrock Swede, Yellow.....	05	10
Extra Fine Curled .....	05	15	2.00	Above Varieties Mixed.....	05	10
<b>Pepper.</b>				<b>Herb Seeds.</b>	Pkt.	Oz.
<b>New Golden Dawn</b>	<b>15</b>			Coriander .....	05	.20
Sweet Bell or Bull Nose.....	10	25	4.00	Horehound.....	10	50
Large Sweet Mountain.....	10	25	4.00	Summer Savory... ..	10	30
Red Cayenne .....	10	25	4.00	Sweet Marjoram... ..	10	40
Spanish Monstrous (New) ....	10	40		Caraway .....	05	15
				Sweet Fennel.....	05	20
				Send orders to		
				<b>Isaac F. Tillingh</b>		
				<b>La Plume, Lack'a C</b>		



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New, being imported by us from the largest floral establishments in France and Germany. We have no doubt they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

### ANNUALS.

- Abronia.** Half-hardy trailing plants.
  - 1 Arenaria, pure waxy yellow flowers
  - 2 Umbellata, rosy lilac, white eye
- Adonis.** Known as Pheasant's eye.
  - 3 Æstivalis, brilliant scarlet
  - 4 Autumnalis, flowers dark blood-red
- Ageratum.** Splendid for summer and winter.
  - 5 Improved Dwarf, white and blue mixed
  - 6 Mexicanum, blue, nice for bouquets
  - 7 Album, same as above only white
- Alyssum.** Beautiful for beds, pots, or bouquets.
  - 8 Sweet, small white, very fragrant
- Amaranthus.** A fine hardy foliage plant.
  - 9 Bicolor, leaves crimson and green
  - 10 Caudatus, "Love lies bleeding."
  - 11 Cruentus, "Prince's Feather" erect blood-red
  - 12 Salicifolius, Pyramidal; brilliant; beautiful
  - 13 Tricolor, "Joseph's Coat" red and green
  - 14 Pyramidalis, beautiful large variety
  - 15 Above six varieties mixed
- Antirrhinum.** (*Snapdragon.*)
  - 16 Atrosanguinea, dark blood-red
  - 17 Carvophylloides, irregularly striped
  - 18 Delfia, fine carmine, white throat
  - 19 Firefly, orange and scarlet, white throat
  - 20 Galathe, large crimson, white throat
  - 21 Luteum, clear yellow, fine
  - 22 Majus, Flore-Albo, pure white
  - 23 Papilionaceum, blood-red, white throat
  - 24 Strlatum, striped, bright colors mixed
  - 25 Tom Thumb, very dwarf mixed colors
  - 26 Fine Mixture of the above
- Angelonia.** Very pretty decorative plant.
  - 27 Grandiflora, violet blue, sweet scented
- Asperula.** Hardy, perfuse bloomer
  - 28 Odorata, white fragrant flowers
- Aster.** Very popular and effective favorites.
  - 29 Tall Chrysanthemum-flowered
  - 30 Diamond, dwarf imbricated Pompon
  - 31 Dwarf Pyramidal Bouquet, very early
  - 32 Giant Emperor, very large, handsome
  - 33 Hedge-hog or Needle, long quilled petals
  - 34 Imbrique Pompon, twelve colors mixed
  - 35 La Superbe, pæony-flowered perfection
  - 36 New Chrysanthemum-flowered, dwarf
  - 37 New Pæony-flowered Globe, very large
  - 38 New Schiller, very fine late dwarf
  - 39 Pyramidal-flowered German, branishing
  - 40 Shakespeare, beautiful, large-flowering
  - 41 Truffant's Pæony-flowered, perfection mixed

- 42 Victoria, globe imbricated, mixed colors 10
- 43 Washington, new, the largest of all 10
- 44 Quilled German, twenty varieties mixed 5
- 45 Reid's Improved Quilled, twelve sorts mixed 5
- 46 Globe Flowered German, twelve colors mixed 5
- 47 Dwarf German, twelve varieties mixed 5
- 48 Fine Mixture of all the above Asters 10
- Balsam.** (*Impatiens.*) (*Lady Slipper.*)
  - 50 Camellia-flowered, mixed, very double 10
  - 51 Camellia-flowered, white, beautiful 10
  - 52 Camellia-flowered, spotted, German dou, mixed 10
  - 53 Carnation, fine double striped 10
  - 54 Double French, scarlet spotted, very fine 10
  - 55 Fine Mixture of all the above 10
- Bellis Perennis.** Double Daisy
  - 56 Flore Pleno, white and rose mixed 10
- Browallia.** Handsome profuse bloomer.
  - 57 Elata Alba, white 5
  - 58 Elata Grandiflora, fine blue 4
- Cacalia.** Hardy annual, fine for cut-flowers.
  - 59 Coccinea, scarlet 5
  - 60 Coccinea Flore Luteo, yellow 5
- Calendula.** (*Cape Marigold.*)
  - 61 Fine Mixed, colors 5
- Campanula.** Hardy free-flowering annual.
  - 62 Speculum, rose, white and blue mixed 5
- Candytuft.** (*Iberis.*) Hardy annual.
  - 63 New Dwarf White, 10
  - 64 Sweet-scented, white, purple, lilac, etc. mixed 5
- Canna.** (*Indian Shot.*) Beautiful foliage,
  - 65 Dwarf and Tall, mixed colors 5
- Celosia.** (*Cock's Comb.*) Showy bedding plant,
  - 66 Dwarf Feathered, splendid scarlet 5
  - 67 Cristata, best tall varieties mixed 5
  - 68 Cristata, best dwarf varieties mixed 5
- Centaurea.** (*Dusty Miller.*) Elegant foliage.
  - 69 Gymnocarpa, white leaved 5
  - 70 Suaveoleus, (Sweet Sultan.) Yellow 5
  - 71 Cyanus, (Blue Bottle.) Mixed 5
- Clarkia.** Suffers in hot dry weather.
  - 72 Double, rich magenta colors 5
  - 73 Pulchella, best colors mixed 5
- Convolvulus.** (*Minor.*) Dwarf trailing plants.
  - 74 White, violet, lilac and purple mixed 5
- Datura.** Blooms first season, roots may be kept over winter same as Dahlias.
  - 75 Fastuosa, Alba Pleno, fine double white 5
  - 76 Humilis, Flava Flore-Pleno, double yellow 5
  - 77 Wrightii, large tinted white, sweet-scented 5
- Delphinium.** (*Annual Larkspur.*) Sow early.
  - 78 Formosum, finest blue flower known 10
  - 79 Dwarf German Rocket, double mixed 10
  - 80 Tall German Rocket, double mixed 10
  - 81 Imperial Branching, double mixed 10
  - 82 Hybrid, Extra fine mixed varieties 10
- Dianthus.** Magnificent and constant bloomer:
  - 83 Chinensis, double extra fine mixed 10
  - 84 Chinensis, Flore-Alba Pleno, double white 10
  - 85 Heddewigii, very large, single finely marbled 10
  - 86 Bladematus, flore-pleno, Diadem Pink 10
  - 87 Heddewigil, flore-pleno, fine double 10
  - 88 Imperialis, purple striped, fine 10
  - 89 Imperialis Atro-sanguineus, double blood-red 10
  - 90 Imperialis Alba-Pleno, fine double white 10
  - 91 Imperialis Flore-Pleno, fine double mixed 10



92 Laciniatus, large single fringed, mixed	10	<b>Pyrethrum.</b> ( <i>Feverfew.</i> )	
93 Laciniatus Flore-Pleno, very large double, mixed	10	142 Aureum, fine foliage plant for borders	20
<b>Helianthus.</b> ( <i>Sunflower.</i> )		<b>Ricinus.</b> Stately, tropical looking plant	
94 Californicus, very large double	5	143 Sangulneus, blood-red stalks, ten feet high	5
95 Globosus Fistulosus, large double orange	5	144 Borbonlensis, magnificent, fifteen feet high	10
96 Mammoth Russlan, the largest, single	5	145 Communis, (Castor Oil Bean.) six feet	5
<b>Lobelia.</b> Exceedingly beautiful,		<b>Salvia.</b> ( <i>Flowering Sage.</i> )	
97 Alba-Pura Compacta, new white	5	146 Splendens, scarlet, fine	5
98 Erinus, deep blue, six inches high	5	147 Cocclnea, elegant bedding plant	5
99 Crystal Palace, deep blue, with white eye	5	<b>Scabiosa.</b> ( <i>Mourning Bride.</i> )	
100 Gracilis Erecta, bicolor, compact	5	148 Major, large varieties, mixed	5
101 Hybrid Grandiflora, superba	5	149 Minor, dwarf double mixed	5
102 Fine Mixture of above varieties	5	<b>Sensitive Plant.</b> ( <i>Mimosa.</i> )	
<b>Mesembrianthemum.</b>		150 Pudica, leaves close when touched	5
103 Crystallinum, (Ice Plant.) white	5	<b>Stocks, Ten Weeks.</b> ( <i>Mathiola annua.</i> )	
<b>Mignonette.</b> ( <i>Reseda.</i> )		151 Emperor, or Perpetual, free blooming	10
104 New Hybrid Spyral, finest dwarf	5	152 New German, large flowering mixed	10
105 Odorata, sweet-scented, (25 cts. peroz.)	5	<b>Tropaeolum.</b> Popular bedding plants.	
106 New White, very large and showy	5	153 Dwarf varieties mixed	5
107 Amellorata grandiflora, large flowering	5	<b>Verbena.</b> A well-known and universal favorite.	
108 Pyramidal, large-flowering sweet	5	154 Cœrula, dark blue	10
<b>Minulus.</b> Fine for small beds windows, etc.		155 Defiance, brilliant scarlet	10
109 Cardinalis, fine scarlet	10	156 Italian Striped, large and fine	10
110 Hybridus Tigrinus, beautifully spotted	10	157 Snow White, extra select	10
111 Moschatus, (Musk Plant.)	10	158 Hybrida, best varieties mixed	10
112 Tillingii, new and elegant	10	<b>Vinca.</b> ( <i>Periwinkle.</i> )	
<b>Marvel of Peru.</b> ( <i>Mirabilis.</i> )		159 Rosea, from East Indies	5
113 Hybrid, fine mixed	5	160 Rosea Alba, white crimson eye	5
<b>Myosotis.</b> Perennial, bloom first season		161 Alba, pure white, fine for florists use	5
114 Forget-me-not, common	5	162 Mixed colors	5
115 Alpestris, rose and white mixed	6	<b>Zinnia.</b> The finest varieties in cultivation	
116 Elegantissima, mixed colors	5	163 Elegans Alba, pure white, double	5
<b>Nemophila.</b>		164 Elegans, extra double, mixed	5
117 Insignis, blue, and maculata, white, mixed	5	165 Dwarf, double, mixed	5
<b>Pansy.</b> ( <i>Heartsease.</i> )		<b>Green House and Florists' Flowers.</b>	
118 Emperor William, large ultramarine blue	10	All these seeds are delicate and must be treated	
119 Faust, or King of the Blacks, coal black	10	with great care, and several sowings ought to be	
120 New Striped, very showy	10	made at different times. Cover the seeds lightly	
121 Perfection, extra large mixed colors	5	with fine soil.	
122 Pure White, beautiful and true	10	<b>Abutilon.</b>	Pkt.
123 Azure Blue, large and extra fine	10	170 New varieties, mixed colors	20
124 Pure Yellow, generally true to color	10	<b>Alsophylla.</b>	
125 Extra large-flowering, mixed colors	5	171 Australis, handsome Tree Fern	10
<b>Peas, Sweet,</b> plants of delightful fragrance.		<b>Balsam.</b>	
126 Best colors mixed, (Per oz. 15 cts.)	5	172 Perfection, extra double white	10
<b>Petunia.</b> Bloom early and profuse,		<b>Begonia.</b>	
127 Blotched and Striped, showy, mixed colors	5	173 Tuber-rooted, mixed colors, fine for pots	20
128 Countess of Ellsmere, dark rose, white throat	10	<b>Calceolaria Hybrida.</b>	
129 Grandiflora Alba, largest white	10	174 Best colors, fine for conservatory	20
130 Hybrid, extra fine mixed colors	5	<b>Carnation Remontant.</b>	
131 Hybrid double, extra choice	25	175 Best German Seed,	20
<b>Phlox Drummondii.</b> Most brilliant.		176 Double Mixed Piccotee,	20
132 Purest White, fine for cuttings	10	<b>Centaurea.</b>	
133 Grandiflora, large flowering mixed	5	177 Gymnocarpa, white leaved bedding plant	10
134 Leopoldi, rose with white eye, fine	10	<b>Cineraria Hybrida.</b>	
135 Radowitzii, deep rose and white	10	178 Maritima,	10
136 Scarlet Meteor, very brilliant	10	179 Candidissima,	10
137 Finest varieties mixed,	10	<b>Clematis.</b> Beautiful ornamental climber.	
<b>Poppy.</b> ( <i>Papaver.</i> ) Free growing, brilliant		180 White-flowering perennial, thirty feet high	10
138 Carnation, double, mixed	5	181 Mixed varieties	10
139 Finest single varieties, mixed	5	<b>Clanthus Dampieri.</b>	
<b>Portulaca.</b> Splendid for small beds.		182 Choicest mixed	20
140 Grandiflora, double, mixed	10	<b>Cobœa.</b>	
141 Single, white, rose, scarlet, yellow, mixed	5	183 Scandens, best climber for house	10



<b>Coleus.</b>	
184 In variety; newest varieties, mixed	20
<b>Cyclamen Persicum.</b>	
185 White, red and pink, mixed	15
<b>Cyperus.</b>	
186 Variegates, water plant, grows in pots	15
<b>Ferns.</b>	
187 Different varieties, mixed	15
<b>Geranium.</b>	
188 Zonale and Inquinans, mixed	16
<b>Glaucium.</b>	
189 Luteum, fine white foliage plant	5
<b>Gloxinia Hybrida.</b>	
190 Choice colors, mixed	11
<b>Heliotrope.</b>	
191 Sweet, mixed	10
<b>Ice Plant.</b>	
192 Mesembrianthemum, tricolor mixed	10
<b>Lantana.</b>	
193 Mixed colors	10
<b>Mignonette.</b>	
194 (104) New Spiral, best for pots	10
<b>Passion Flower.</b>	
195 Passiflora, mixed	10
<b>Petunia.</b>	
196 New Double Fringed, choicest	25
<b>Primula Sinensis.</b> ( <i>Chinese Primrose.</i> )	
197 Alba-Fimbriata, single, large, white	20
198 Rosea Fimbriata, light rose, fine	20
199 Atrocarminea Splendens, deep red	20
200 Above varieties mixed	20
<b>Yucca Filamentosa.</b> ( <i>Adams' Needle</i> )	
201 Finest California	5
<b>ORNAMENTAL CLIMBERS.</b>	
<b>Cobœa Scandens.</b> Climbing annual.	
205 Finest French seed	10
<b>Convolvulus.</b> ( <i>Morning Glory.</i> )	
206 Major, best mixed colors (20 cents per oz.)	5
<b>Courds.</b> ( <i>Ornamental.</i> )	
207 Seeds from many curious varieties mixed	5
<b>Ipomœa.</b> Magnificent for baskets, vases, etc.	
Coccinea, star, small scarlet flowers	5
209 Grandiflora Superba, sky blue with white border	5
210 Limbata Elegantissima, large and fine	5
211 Quamoclit, (Cypress Vine) mixed	5
<b>Loasa.</b> Flowers are very curious and handsome	
212 Vulcanca, very fine new variety	5
<b>Luffa.</b> ( <i>Dish-rag Plant.</i> )	
213 Amara	10
<b>Maurandya.</b> Graceful climber, ten feet.	
214 White, rose and violet, mixed	10
<b>Peas, Flowering.</b>	
215 Finest colors mixed	5
<b>Phaseolus.</b> ( <i>Scarlet-runner.</i> )	
216 Mixed colors	5
<b>Thunbergia.</b> Beautiful half-hardy annual.	
217 Alata, yellow with dark eye	10
218 Aurantiaca, bright orange, dark eye	10
219 Bakeri, pure white, very fine	10
<b>Tropæolum.</b>	
220 Majus, finest mixed colors	5
221 Peregrinum, ( <i>Canary Bird Flower</i> ) fine yellow	10
<b>Everlasting Flowers and Grasses.</b>	
No collection of flowers is complete without a few	

*Immortelles* or Everlastings. They will brighten our rooms through the dreary winter when the Frost King has claimed our other favorites; and mingled with dry grasses and moss they make good substitutes for their more delicate sisters which have faded and gone. The flowers should be picked as soon as they expand, or a little before, and hung up in small bunches so that the stems will dry straight.

## FLOWERS.

<b>Acrocinium.</b>	
225 Roseum, bright rose color	5
226 Album, pure white	5
227 Mixed colors	5
<b>Ammobium.</b>	
228 Alatum, beautiful star-like white	5
<b>Gomphrena.</b> ( <i>Globe Amaranth.</i> )	
229 Pure White,	5
230 Bright Orange	5
231 Dark purplish-crimson	5
232 Striped and mixed colors	5
<b>Helichrysum.</b>	
233 Monstrosum, large, double mixed	5
<b>Helipterum.</b>	
234 Sanfordii, beautiful bright yellow	5
<b>Rodanthe.</b>	
235 Finest mixed varieties	5
<b>Xeranthemum.</b> Free blooming annuals 1 foot.	
236 Finest double white	5
237 Double, mixed colors	5

## GRASSES.

<b>Agrostis.</b> Elegant, fine and feathery	
238 Pulchella	5
239 Nebulosa	5
<b>Briza.</b> ( <i>Quaking Grass</i> ) very hardy	
240 Maxima, very elegant, one foot high	5
241 Gracellis	5
242 Orientalis	5
<b>Coix Lachyma.</b>	
243 Job's Tears, broad corn-like leaves	5
<b>Erianthus.</b>	
244 Ravennæ, resembles Pampas Grass	5
<b>Eulalia.</b>	
245 Japonica, new very ornamental	10
<b>Cynerium.</b> ( <i>Pampas Grass.</i> )	
246 Argenteum, makes elegant plumes	5
<b>Lagurus.</b> ( <i>Haretail Grass.</i> )	
247 Ovatus, dwarf, showy heads	5
<b>Stipa Pennata.</b>	
248 Feather Grass	5
<b>Squirrel Tail Grass.</b>	
249 Hordeum Jubatum	5

## CHOICE PERENNIALS.

These seeds produce plants which are hardy, will survive over winters and flower the second season, some early in spring, others in summer and autumn.

<b>Alyssum Saxatile.</b>	
250 Golden Yellow, ten inches high	5
<b>Aquilegia.</b> A highly interesting class.	
251 Twelve best varieties mixed	5
<b>Campanula.</b> Hardy free-blooming plants.	
252 Medium, ( <i>Canterbury Bell</i> ) large; blue	5
253 Medium, double, blue	5
254 Medium, double, white	5



# SEED-TIME AND HARVEST.

- Carnation.** (*Dianthus Caryophyllus*)  
255 Grenadln, brilliant red 20
- Delphinium.**  
256 Formosum, brilliant blue, white eye 5
- Digitalis.** (Foxglove) useful border plants.  
257 Best varieties mixed 5
- Hollyhock.** (*Althea*).  
258 Double, very fine, mixed colors 10
- Linum.** Fine foliage, beautiful flowers.  
259 Perenne, blue and white 5
- Oenothera.** [Perennial Evening Primrose,]  
260 Finest mixed colors 5
- Papaver.** [Perennial Poppy.]  
291 Bracteatum, scarlet, three feet long 5  
262 Croceum, large orange flowers 5
- Pentstemon.** Popular bedding plants.  
263 Best varieties mixed 10
- Phlox, Perennial.**  
264 Fine mixed colors 5
- Primula Elatior.** [Modern Cowslip.]  
265 Splendid mixed 5
- Pink.** Related to Carnation, but smaller  
266 Best double mixed colors, German seed 10
- Picotee.** The finest of the Carnation family.  
267 Double, finest German mixed 20
- Stock, Brompton.**  
268 White, violet and carmine, mixed 10
- Sweet William.** Hardy and easily grown.  
269 Perfection, best colors mixed 10
- Wall Flower.** Very fragrant and desirable.  
270 Bright Yellow 5  
271 Fine mixed colors 5  
272 Elegant Double, mixed 10
- "Wild Garden" Flower Seeds.**  
273 Over 200 choice varieties in one package 5

NOTICE. Please order all Flower Seed by number.

## Trial Collections.

To meet a popular demand and at the same time to give an inducement for every one who has a garden to order a trial package, we have put up some special collections at greatly reduced rates. These packages are made up in advance and *no changes whatever can be made in them.*

**Collection No. 1** contains Seventeen Packets of Vegetable Seeds, worth at list price \$1.25, one package each as follows:

- 1. Amber Cream Sweet Corn ..... 10 cts.
- 2. Crystal White Wax Bean ..... 10
- 3. Cabbage, 18 varieties mixed ..... 10
- 4. Beet, mixed table varieties ..... 5
- 5. Carrot, best varieties mixed, ..... 5
- 6. Cucumbers, " " ..... 5
- 7. Cauliflower, " " ..... 20
- 8. Turnip, " " ..... 5
- 9. Rutabaga, " " ..... 5
- 10. Onion, " " ..... 5
- 11. Lettuce, " " ..... 5
- 12. Radish, best early varieties mixed, ..... 5
- 13. Tomato, best " " ..... 5
- 14. Musk Melon, best " " ..... 5
- 15. Water Melon, " " ..... 5
- 16. Spinach, round leaved, ..... 5
- 17. New Golden Dawn Mango, ..... 15

Collection No. 1, as above, 17 pkts., worth \$1.25, will be mailed to any address on receipt of 75 cents.

**Collection No. 2** consists of Ten Packets of choice annual Flower Seeds of our selection, among which will be Asters, Balsam, Pansy and Verbena, and a packet of "Wild Garden Flower Seeds." This collection of 10 packets by mail for 25 cents.

**Collection No. 3.** For \$1.00 we will send Collections No. 1 and 2, and one year's subscription to SEED-TIME AND HARVEST. This we call Collection No. 3, and we expect Ten Thousand Orders for it before April 1st.

**Collection No. 4.** Those who are already subscribers to SEED-TIME AND HARVEST or who do not wish to include subscription with seed order, may, by sending \$1.00, select seeds in packets from our Veg table or Flower Lists to the amount of \$1.25.

Miscellaneous.	Pkt.	Oz.	Lb.
Osage Orange Seeds.....	05	10	75
Apple Seeds.....	05	10	50
Tree Seeds, prices on application.			
Evergreen Broom Corn.....	05	10	60
Early Amber Sugar Cane.....	05	10	60
Rural Branching Sorghum.....	05	10	60
Mammoth Russian Sunflower..		05	40
German Millet, [bu. on application,]		05	50
Pearl Millet.....	05	10	60
Potato Seeds from Wall's Orange	10		

NOTICE. Please do not order small quantities of varieties not named in our list. Should you, however want any considerable quantity of anything offered in any seedsman's catalogue, we can nearly always obtain it to advantage and will be pleased to quote prices on application. In case we cannot supply you we will endeavor to tell you where you can get what you want to best advantage.

## Garden Implements.

The following garden implements will be sent from here or from the manufactory at Factory Prices:

Ruhlman's Wheel Hoe.....	\$ 5.50
The New York Seed Drill.....	12.00
Matthews' Seed Drill.....	12.00
Matthews' Combined Drill and Cultivator	15.00
PLANET JR. IMPLEMENTS.	
Combined Drill, Hoe and Cultivator,.....	15.00
No. 2 Drill,.....	12.00
Double Wheel Hoe, Cultivator and Plow,..	8.00
Single Wheel Hoe,.....	6.00
Firefly Plow,.....	4.00
Combined Horse Hoe and Cultivator,.....	12.00

## Seed Potatoes.

I am pleased to announce that I have a much finer and larger stock of Seed-Potatoes to offer this fall and next spring than ever before. I have annually tested hundreds of new varieties and believe the following list comprises the very best in cultivation.

The pound prices include postage and free delivery by mail. In larger quantities they will be delivered to express or freight agents here to be transported at the expense of the purchaser.

	Lb.	Peck.	Bush.	Bbl..
New Champion.....	75			
Early Sunrise.....	75			
Red Elephant.....	50	1.00		
Rose's New Seedling	50	1.00		
Jordan's Prolific.....	50	1.00		
Brownell's Best.....	50	1.00	3.00	
Early Telephone	50	1.00	3.00	
White Star.....	50	75	3.00	
Cook's Superb.....	50	75	2.00	5.00
White Whipple....	50	75	2.00	5.00
Clark's No. 1.....	50	75	2.00	5.00
The "Belle,".....	50	75	2.00	5.00
White Elephant.	50	75	1.50	4.00
E. Beauty of Hebron.	50	75	1.50	4.00
Pride of America....	50	75	1.50	4.00

**Wall's Orange** \$1.00. Bushel and barrel prices given on application.

**Special Offer.** Four pounds from the above list, your selection, one or more varieties, will be sent by mail for \$2.00; or by express for \$1.00.

**Isaac F. Tillinghast,**  
**La Plume, Lack'a Co., Pa.**



"Of all Floral Magazines I like the Floral Cabinet best."

"As a Household Companion I think in the Floral Cabinet we have all we can desire."

1871.

TWELFTH YEAR.

1883.

# LADIES' FLORAL CABINET

A MONTHLY HOME COMPANION,

without increasing the cost to its subscribers, enters its Twelfth year doubled in number of pages, quadrupled in interest and value to those who love and cultivate flowers, and have a taste for those things which go to make home more cheerful and attractive. It treats of FLOWERS, their history, life, habits, culture and lessons; Ladies' Fancy Work, practical, not æsthetic; Home Adornment; Personal Adornment; Domestic Economy and practical suggestions for the Kitchen; Short Stories, Poems and New Music. \$1.25 per year; and

TO EVERY SUBSCRIBER, PREMIUMS--POST FREE.

## KNO KROMOZE

We give no Chromos to subscribers or club agents, but simply our Flower Seeds or Bulbs, grown expressly for us, of the very best strains of their respective varieties. **TO EVERY SUBSCRIBER**, coming singly or in clubs, we send either List I. or List II., as they may select *at the time of sending in their subscription*. Either of these lists would cost more at a retail establishment than the subscription price of the magazine.

**LIST I.**—To every subscriber who does not request List II. we mail, *post free*, all of these ten papers of Flower Seeds, as follows:

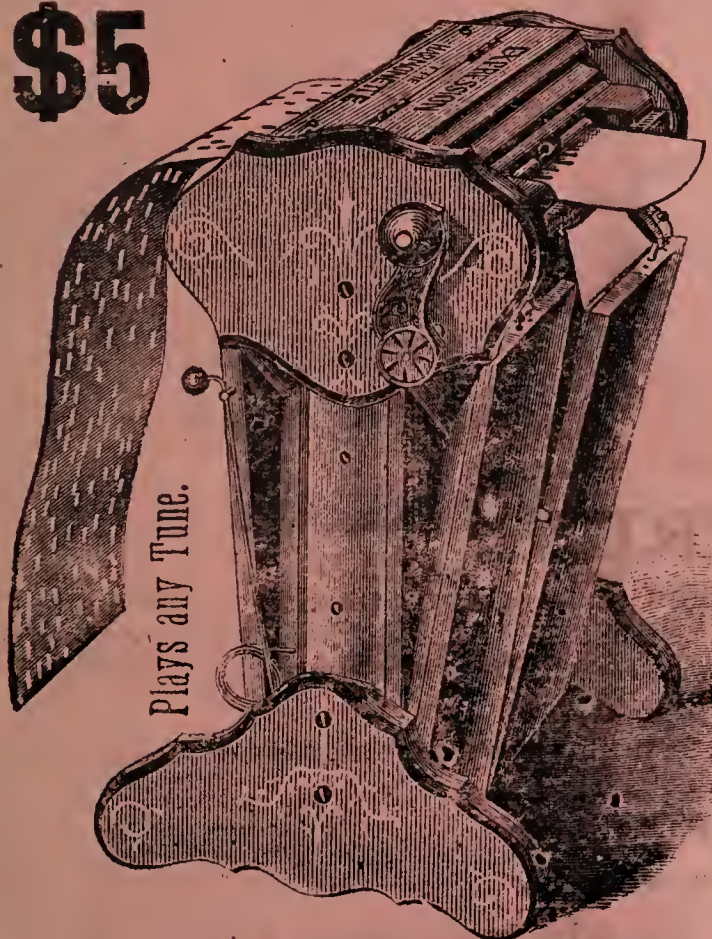
Balsam, Camellia-flowered, Mixed Colors.  
Phlox Drummondii, Large-flowered Mixed Colors,  
Mignonette, New Giant.  
Cockseomb, Dwarf, immense heads. Mixed Colors.  
Candytuft, Large Rocket.

Pansy, very choice, Mixed Colors.  
Zinnias " " " "  
Ipomœa, " " " "  
Petunias, " " " Blotched and Striped.  
Poppy, " " " New French.

**LIST II.**—Three bulbs, in three distinct sorts, of American Hybrid Gladiolus, equal to the very best named varieties.

**FOR TO-DAY'S ATTENTION.**—Persons unacquainted with the LADIES' FLORAL CABINET are invited to send Twenty-five cents for a three months' trial; and at the close of that period a remittance of One Dollar will pay for the balance of a year and for the Premium Seeds, or Bulbs, as they may select. Address **LADIES' FLORAL CABINET, 22 Vesey Street, New York.**

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**THE HARMONETTE. A MUSICAL WONDER,** and the best Mechanical Musical Instrument in the World. Novel in construction, elegant in design, powerful and melodious in effect, **MUSIC AND MUSICIAN COMBINED.** More Reeds and more powerful than \$8 Organettes. **THE HARMONETTE** plays anything, from a simple song to a difficult waltz or operatic selection. Any child can operate it. *Music only 4 cents per foot.* It is beautifully finished in black walnut, and of handsome shape and design; **EXPRESSION SWELL**, and many patented improvements. It is as loud as a cabinet organ, and will furnish music for any occasion, and it is a most complete present for any one, old or young. We send the Harmonette, with selection of music, to any address, on receipt of price, **\$5.** Extra Music can be sent by Mail at any time. This is the most wonderful musical instrument that has ever been invented. Address, the **MASSACHUSETTS ORGAN CO., 67 Washington Street, Boston, Mass.**

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Biggest Bargains ever known. From \$1.75 to \$25.

**SPECIAL BARGAIN. PAGANINI VIOLIN,**

Celebrated for fine tone, finish. Italian strings, fine pegs, inlaid pearl tail-piece, fine long bow, with ivory and silvered frog, in violin box. Book of Instruction, with 558 pieces music, by express for \$3.50. Satisfaction guaranteed, or money refunded. A better outfit cannot be purchased elsewhere for \$10. Send stamp for large Catalogue. **G. H. W. BATES & CO.,** Importers and Manufacturers, 106 Sudbury St., Boston, Mass.

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12-15

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Never Before was Such an Array of Desirable Novelties Offered.

## STRAWBERRIES.

Besides the long list of old varieties, **Manchester**, denominated "The Greatest Strawberry on Earth;" The Royal JERSEY QUEEN, JAMES VICK, PHELPS' SEEDLING, BIDWELL, PRIMO, BIG BOB, FAIRY, and many other tempting novelties are offered.

## RASPBERRIES.

**Hansell**, the most wonderful Raspberry ever produced: **Souhegan**, superb extra-early Black Cap. GREGG, TYLER, CUTHBERT, SHAFFER'S COLOSSAL, and all the standard kinds with several other novelties.

## GRAPES.

The collection of hardy Grapes is especially attractive, embracing the beautiful and delicious **POCKLINGTON**, **LADY WASHINGTON**, **PRENTISS**, **DUCHESSE**, and the other grand new white Grapes, with **JEFFERSON**; **EARLY VICTOR**, **MOORE'S EARLY**, **LADY**, **BRIGHTON**, **WORDEN**, the **ROGERS' HYBRIDS**, and an extended list of other sorts, both new and old.

## BLACKBERRIES.

The "Iron Clad" varieties that succeed everywhere, with the great novelty **Early Harvest**, and all the standard varieties. Also, a full assortment of Gooseberries and Currants.

## FRUIT TREES.

In this department a specialty is made of the Peach. Out of the large collection of varieties of **APPLES**, **PEARS**, **PEACHES**, **PLUMS**, **CHERRIES**, etc., special attention is invited to the stock of **Kieffer's Hybrid** and **Le Conte Pears**, **Champion Quince** and **Nut-bearing Trees**.

Remember the Catalogue costs you nothing and may save you a great deal.

Address,

Four Fruit Farms. }  
Two Greenhouses. }

**J. T. LOVETT,**  
Little Silver, New Jersey.

{ Introducer of the Cuthbert Raspberry and Manchester Strawberry.

**HANSELL.** *The Most Remarkable Raspberry Ever Produced.* Brightest red, extra firm, perfectly hardy, of best quality, and the *Earliest of all Raspberries.* (See engraving and description of it in **SEED-TIME AND HARVEST** for November.)

RESOLVED, "That it is the sense of this meeting that this is the earliest Raspberry so far known. Further, it is of a bright red color, of fine shape, and of great firmness. Unanimously adopted.—*Report of meeting on grounds of originator, June 27th, 1882.*

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Circular giving full account and a beautiful chromo of this wonderful novelty, *free.*

PLANTS, dozen, \$3.00; 25 for \$5.00; 100 for \$18.00.

Address, **J. T. LOVETT,** as above.



1883.



# Seed-Time and Harvest.

## FEBRUARY.



Devoted to Rural Affairs.

PUBLISHED MONTHLY BY  
Isaac F. Tillinghast, La Plume, Lack'a Co., Pa.

50 Cents a Year.







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The most remarkable **RASPBERRY** ever produced.

Brightest red, extra firm, entirely hardy, of best quality, and the *Earliest of all Raspberries*. Circular giving full account and a beautiful chromo of it free.

The finest stock of Plants in the country, embracing all the leading varieties of **SMALL FRUITS** and old. Also, a large and superior stock of **TREES** of Orchard Fruits.

**LOVETT'S SMALL FRUITS** are the best. Over thirty prizes for Strawberries alone the past season. Catalogue brilliantly illustrated (Colored Plates), telling how to get and grow them, and quoting attractive prices, free to all.

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(Introducer of the Cuthbert Raspberry and Manchester Strawberry.) **J. T. LOVETT, Little Silver, N.J.**

See Large Advertisement last cover page, Seed-Time and Harvest for January.



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A Little Wonder.

Just what everybody needs. Farmers, Mechanics, Business Men, or Boys can now own a Perfect Time-keeper. The Little Wonder Time-keeper is NO HUMBUG, nor is it a cheap toy. It is a thoroughly reliable teller of the time of day, in a handsome silver nickel mounting-case, and fully warranted. Cheap Watches are as a general thing poor time-keepers, but the Little Wonder can always be relied upon. Our offer:

We want 200,000 new readers for our paper immediately, and in order to obtain them and introduce it into every home in the Union, we are now making extraordinary offers. We will send our new paper, entitled "Youth" for the next three months to all who will send us *thirty-three cents* in one-cent postage stamps, to help pay postage and cost of this advertisement; and to each person we will send *absolutely free* one of the **Little Wonder Time-keepers**. Any one sending \$1.00 for three subscriptions will receive paper and *Time-Keeper* free.

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Where we have no Agents the Scales will be sent on Trial, Freight paid, and a **SPECIAL DEDUCTION MADE.**

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### THE FARMERS' 3-TON SCALE,

Size of platform, 8 feet by 13 feet.  
Price, \$35.

For Illustrated Book, address,

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FREIGHT PAID; SENT ON TRIAL; FULLY WARRANTED.

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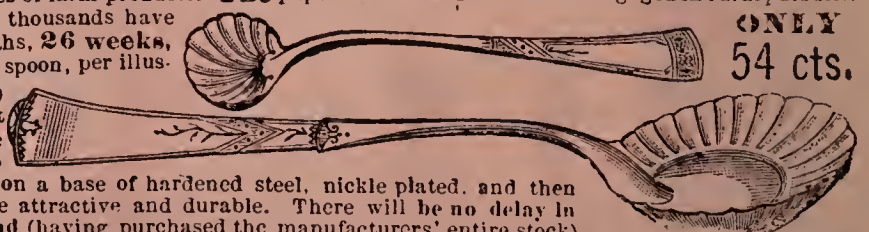
Have taken "Practical Farmer" 27 years. It is one of the best agricultural weeklies.—A. SCOTT, Del. Co., Pa. Been a subscriber for 25 years, find it a pleasant and helpful visitor.—C. W. GETZ, Manoa, Pa. The second paper I read on list of seven, been taking it many years. Like it!—D. B. LAYSHAW, Vincent, Pa. Enclosed find subscription for my 18th year.—A. H. CARRY, Camden, Del. Have taken "Farmer" 26 years. Consider it indispensable in every farmer's family.—J. W. COOPER, Whitesburg, Del. Samples of letters received daily, showing the high esteem in which the paper is held.

The **Practical Farmer** (Estab'd 1855), is a 16 page, 64 column weekly, laden with good things concerning Agriculture, the Garden, Horticulture, Live Stock, the Apiary, etc. Its "Family Circle," "Youth's," "Household," and "Hygiene" departments contain the ripest thoughts of well-known writers. Everything perverse of pure morality is excluded from its columns. Its complete market reports keep the farmer posted on current prices of farm products. The paper PAR EXCELLENCE for all engaged in rural pursuits.

To enable you to become its practical friend, as thousands have already done, we offer to send it on trial for six months, 26 weeks, and make you a free gift of a beautiful sugar and salt spoon, per illustration, on receipt of 54 cts. (in 3-ct. postage stamps)

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give our readers something of intrinsic worth. Made on a base of hardened steel, nickel plated, and then heavily plated with pure coin silver, they are alike attractive and durable. There will be no delay in sending off these premiums, we have them on hand (having purchased the manufacturers' entire stock) and want you to have them. The **PRACTICAL FARMER** is now in its 28th year, and its publishers have earned an enviable reputation for promptness and reliability in dealing with its patrons. A paper that can hold its subscribers for over twenty-five years, must possess high character and its publishers be thoroughly responsible. It has never made a promise to its subscribers which it has not PROMPTLY fulfilled. Four neighbors may club and remit money order for \$2. and spoons (four set) will be sent with paper 6 months to each. This advertisement may not appear again. Address, **THE FARMER CO., Philadelphia, Pa.**



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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

VOL. 4.

FEBRUARY, 1883.

NO. 2.



## Livingstone's Favorite Tomato.

THE above excellent cut gives a fair idea of a new tomato originated by Mr. A. W. Livingstone whose attempts to produce a tomato superior to any other have met with such extraordinary success. More has probably been achieved with the tomato within the last fifteen or twenty years than

with any other vegetable in the way of improving it in size, shape, color, flavor and other desirable qualities. The Trophy was once regarded as the acme of success and in its day was truly the *ne plus ultra*, but many other candidates for public favor have arisen since its time and among them all we know of none more worthy or desirable than Livingstone's Favorite.



### Wild Oats.

The most magnificent specimen of young manhood that I have ever known was a young fellow student named Henry Haines. As an athlete on the campus, as a scholar in the arena of debate, he was *facile princeps* everywhere and always. We were not so much envious of him as proud of him, and we fondly fancied that there could be no height of fame or fortune too difficult for his adventurous feet to climb, and that the time would come when he would fill the world with the echo of his fame, and it would be a proud thing for any of us to declare that we had known him. A little tendency to dissipation was by some of us observable—a little dash of dare-deviltry—but this was only the wild oat sowing which was natural to youth and genius, and which we did not doubt that after years would chasten and correct.

But the years came and the years went, and the young collegians were scattered through the world, and ever and anon would some of us wonder what could have become of Henry Haines. We looked in vain for his rising star, and listened long for his coming feet. Some time ago, for a single Sabbath, I was preaching in New York. My theme in the morning had been 'The Ghost of Buried Opportunity.' On my way to my hotel I discovered that I was 'shadowed' by a desperate-looking wretch, whose garb, whose gait, whose battered, bloated look all unmistakably betokened the spawn of slums. What could the villain want with me? I paused at my door, and faced about to confront him. He paused, advanced, and then huskily whispered: 'Henson, do you know me?' I assured him I did not, whereupon he continued. 'Do you remember Henry Haines?' 'Aye, aye, well enough, but surely you are not Henry Haines?' 'I am what is left of him—I am the ghost of him. I shuddered as I reached for his hand, and gazing intently into his face, discovered still some traces of my long-lost friend, still doubly lost though found again, I put my arms about him in brotherly embrace, and drew him to my room, and drew from his lips the sad story of his shattered life.

begged him by the old loves and forgotten memories of better days to go back with me to my Philadelphia home, and under new auspices and with new surroundings, to strike out for a noble destiny, which I hoped might still be possible. But, striking his clenched fist on my table, he said: 'Henson, it's no use to talk to me. I'm a dead beat, and a dead broke. I'm a burnt out volcano, and there's nothing left of me but cinders now. I have come to New York to bury myself out of sight of all that ever loved me. I know the ropes here, and shall stay here till I rot. I live in a muskrat hole near the wharf. I shall die as I have lived, and I have lived like a dog.'

In vain were my earnest protests and brotherly pleading. He tore himself from me and went shambling off to his den by the wharf.

He had sown the wind and was reaping the whirlwind. He had sown to the flesh, and was reaping corruption. He had sown 'wild oats,' and the oats were now yielding a dread harvest of woe.

### What Will it Cost?

Gen. W. T. Sherman said in the early part of the late war that it would take a million of men and tax the resources of the government to its utmost limit to put down the rebellion. He was considered crazy, and was called for some time 'Crazy Sherman.' But this was a prophecy that was too sadly fulfilled. If some broad minded man should now rise up and predict as to what it would cost this people to put this God defying and man destroying liquor evil away, he too, perhaps, would be called crazy. But as surely as God caused Pharaoh to let the children of Israel go, and caused the South to give up her slaves, so surely will God make this nation give up this business that causes a more blighting, blasting, withering curse than Egyptian bondage or American negro slavery; and if we do not do this swiftly and willingly, God's judgments will suddenly and awfully avenge the wrongs of the millions of innocent sufferers. President Lincoln, in his second inaugural, when the war had progressed nearly four years, said: "If this



war must go on until there is a drop of blood drawn by the sword for every one that has been drawn by the slave driver's lash, and an amount of money expended equal in value to the two hundred years of uninterrupted toil of the slaves, yet we must say 'the Lord is true and righteous altogether.' And if a calamity shall come to this nation that will cause a drop of blood to be shed for every one caused to be shed by alcoholic drinks and a tear for every one that has been shed on account of dissipation and drunkenness, Oh, my God: (I say it reverently.) what rivers of blood and oceans of tears would be shed. And for all this the nation might be compelled to say, 'yet the Lord is true and righteous altogether.' —*The Lever.*

### WALL'S ORANGE POTATO.

From American Rural Home, Rochester, N. Y.

We have been aware for some years past that our friend Lyman Wall, of Webster, late Prohibition candidate for Assembly from the eastern district of Monroe county, has been planting potato seed with the view of obtaining improvements in varieties, and that he has been remarkably successful. His greatest success is the one he calls 'Wall's Orange' which has been somewhat disseminated during the last year.

This potato has not quite the ideal form, being rather too broad in proportion to its length, of an oblong form, and considerably flattened. Its transverse diameter, one way, is from fifty to one hundred per cent, greater than the other. This flatness may facilitate baking them, but hardly contributes to its beauty. Neither has it the ideal color of skin in a potato. We think all will agree that white is the preferable color in the skin of the tuber, although many of the best and most popular potatoes that this country has ever produced, deviated from white: notably among these were the Long Pinkeye, Mercer, Peachblow, and Early Rose. The Lady Finger and the Fluke most nearly realized the ideal form and color in potatoes, and we might say, the ideal in quality, but in productiveness they fell way behind. The skin of Wall's Orange

is a yellowish brown tinge, hardly enough to call it a color.

When you come to the prime test of a potato, the characteristic chiefly sought in the *potum terra*, the one for which it is grown and has become such an important article of diet and commerce in the temperate zones of the earth, namely, its flesh, there you find Wall's Orange superior. It cooks up very white, dry, mealy, of substantial texture, and with a little better flavor, we think, than any of the new varieties we have recently partaken of. We have been using them steadily for several days, and formed our conclusion deliberately.

But the fact that it is a potato of the best quality is not, alone, sufficient to commend its general adoption. The Long Pinkeye, the Mercer, the Lady Finger, the Fluke and the Peachblow all excelled in this characteristic, yet we could not now advise our readers to plant them for profit. At least two of them, perhaps three, were never profitable to grow for market, the yield was so small and uncertain. We are not quite certain as to the productiveness of Wall's Orange, but are under the impression that it has been very productive with Mr. Wall. If it proves generally so, that will be another very favorable characteristic. There is another characteristic that some varieties seem to possess in much greater degree than others, and that is vigor; a quality that enables them to grow under difficulties, to produce on poor land, under neglect, in very dry or otherwise unfavorable seasons. Some varieties of grain, as well as vegetables will produce largely when everything is favorable; soil rich and mellow, seasons favorable, &c., but do nothing under adverse conditions. We consider this quality of vigor, one of the greatest recommendations of the Clawson variety of wheat. There are other varieties that will yield as many bushels when everything conspires to favor success, but in adverse seasons prove very unprofitable. Whether the potato under consideration will prove vigorous in constitution, persistent, retaining its good characteristics through many years, time only will determine. All we can say at present is, that it appears very promising.



## Celery Culture.

BY JOSEPH GARRISON.

Dwarf celery should be planted on the level surface of the ground. The large varieties may be grown in shallow trenches from 4 to 6 inches below the surface. Better success will be attained, and with the labor, by sowing the seed where the celery is to be grown, than by sowing in a seed-bed and transplanting the plants to shallow drills or trenches. The benefits arising from this method of culture, are numerous. There is not only an immense saving in time and labor, but the great risk to run of losing the whole crop by transplanting in dry weather, will be avoided. And again if the roots are left undisturbed they will reach out farther, gather more nourishment, and, consequently the plants will make more rapid and larger growth than when they are torn asunder in being transplanted.

Celery, when grown in this way, may be sown two weeks later than by the usual method. It will also be found to be more crisp and tender, as transplanting has a tendency to check its growth and to make it tough rather than to make it tender. This is not only theory, but actual experience. My celery the present season is fifty per cent better where grown after this manner than that grown by the old method. Try it next season and report your success.

### THE SOIL.

Select a clay loam, deep, rich, and pliable. It should be well drained and free from water' as celery is very susceptible to injury from excessive moisture. If your field is covered with a heavy sod, plow in the fall, cultivate thoroughly in the spring and enrich the soil by spreading broadcast from 40 to 50 tons per acre of rich, well rotted stable manure. Plow the manure under about three inches deep, harrow and roll with a light field roller. Mark off in drills three feet apart and sow for early crop about the 15th of April; for second early the 1st of May, and for general crops about the middle of May.

The seed should be covered lightly and

the soil pressed with the feet or covered with boards until the seed begins to germinate. The intervening space between the drills or trenches should be planted at once with early vegetables. The rows 9 inches apart of either onions, spinach, or lettuce, may be planted between two rows of celery. Cabbage seed may be sown the the same distance apart for plants. One row of either early eabbage, sweet corn, peas, beets, bunch beans, or radishes may also be grown between two of the rows and harvested without serious injury to the celery crop. As soon as the planting is done the hand cultivator should be used to keep the soil mellow and to destroy noxious weeds. When the celery plants begin to appear watch closely for the little ants, as they relish a dinner of this delicious vegetable when it is young and tender, and will soon destroy thousands of plants. A little powdered borax or sometimes bone meal scattered among them will drive them away. The surest way is to saturate sponges with sweetened water or spread lard on paper and place these at intervals along the rows and you can soon capture them. After the plants have become well rooted and between two and three inches high, thin out to three inches apart leaving the healthiest and stoutest plants in the drills. Keep the soil mellow and loose several inches below the surface and near the plants to let in air and the rays of the sun and to allow the moisture to rise. When the plants are from 10 to 12 inches high the banking up process should begin. This work can be greatly lessened by preparing a round tin sheath 6 inches long and 2½ inches in diameter for each plant. The edges of these sheaths need not be soldered together but simply lap over each other, the end being inserted in the earth about an inch, will prevent them from spreading open. They can be made for a trifle and will last a life time. The branches of the plant will be kept in an upright position by them, and the heart so protected that the banking up at first, can be done by a hand plow, hoe, or spade and in one-fourth the time that would be required to do it with the hands. As the celery grows larger the sheaths should be moved up and the filling up done



as before. When the vegetables grown between the rows have been harvested, a large cultivator should be run through a number of times to loosen and mellow the soil. The last earthing up may be done with a double corn plow, dressing up with hoe or spade.

## STORING AWAY FOR WINTER.

One of the cheapest methods is to dig pits, funnel-shaped, three feet in diameter at the top, twenty inches in depth and terminating in a point at the bottom. These pits if possible should be placed on the brow of a hill where good drainage can be secured. In the bottom of each, a trough made of three boards, triangular-shaped and four feet in length, should be placed to serve as a drain. The top board of this trough should lie about an inch below the bottom of the pit and be punctured full of holes to receive any water that may find its way into the pit. Another trough, similar in shape and size, with a number of holes in each side, should be placed upright in the center of the pit to serve as a flue. This flue with the bottom trough, gives good ventilation to the center of the pit, carries off the moisture and prevents heating. In packing, commence at the flue, stand the plants uprightly around it and press them in closely, using no earth except what adheres to the roots. They should be arranged similar to a coal pit or grain stack, terminating a few inches from the top of the flue and having a uniform slope on all sides down to the margin of the pit. A covering of long straw should be put on at once. Tie the tops of the straw around the top of the flue, straighten it out and distribute it equally over all parts of the pit. If the weather is mild, put on a very thin covering of earth merely to keep the straw in place. Add to this as the cold increases until you have sufficient for protection during the winter. Each pit will hold from 900 to 1200 stalks, owing to size of stalks and care in packing. An acre of ground planted as directed, will produce over 50,000 stalks of celery, which at the low sum of three cents per stalk will amount to \$1500. The plants pulled out in thinning the drills may be transplanted to another bed, and sold to those who do not wish to go to the

trouble of raising them. If the above directions are fully carried out, and success attends your efforts in growing and selling what we have specified can be grown on one acre, the nice sum of \$1800 net will be the compensation for your labors.

Bloomsburg, Pa., Oct. 30, 1882.

## WHAT SEED SHALL WE SOW?

A wonderful thing is a seed  
The one thing deathless forever!  
The one thing changeless—utterly true,  
Forever old and forever new,  
And fickle and faithless never.  
Plant blessings, blessings will bloom;  
Plant hate, and hate will grow;  
You can sow to-day, to-morrow will bring  
The blossom that proves what sort of thing  
Is the seed, the seed that you sow.

THE TRUE WIFE.—Oftentimes I have seen a tall ship glide by against the tide as if drawn by some invisible bow-line, with a hundred strong arms pulling it. Her sails were unfurled, her streamers were drooping, she had neither side wheel nor stern wheel; still she moved on stately, in serene triumph, as with her own life. But I knew that on the other side of the ship, hidden beneath the great bulk that swam so majestically, there was a little toilsome steam tug, with a heart of fire and arms of iron, that was tugging it bravely on, and I knew if the little steam tug untwined her arms and left the ship it would wallow and roll about, and drift hither and thither, and go off with the reflux, no man knows whither. And so I have known more than one genius, high decked, full freighted, idle-sailed, gay-pennoned, but that for the bare, toiling arms and brave warm-beating heart of the faithful little wife that nestles close to him, so that no wind or wave could part them, would have gone down the stream and have been heard of no more.—OLIVER WENDELL HOLMES.

“Captain,” said a son of Erin, as the ship was nearing the coast in inclement weather, “have ye an almenix on board?” “No, I haven’t.” “Thin, sure, we shall have to take the weather as it comes.”

A Frenchman, writing a letter in English to a friend, and looking in the dictionary for the word “preserve,” and finding it meant to pickle, wrote as follows: “May you and your family be pickled to all eternity.”



## Selecting Vegetable Seeds For Spring Planting.

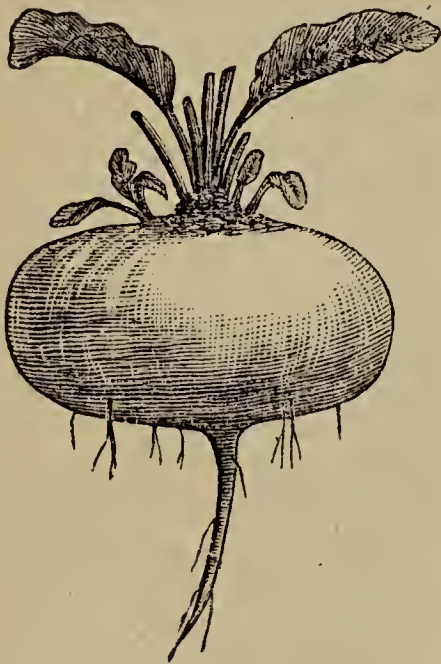
BY ISAAC F. TILLINGHAST.

(Continued from January number.)

IN OUR last we gave a review of the newest and most valuable varieties of cabbage, lettuce, tomatoes, peppers, cauliflowers, egg plants, &c. In continuation of the subject we will next take up

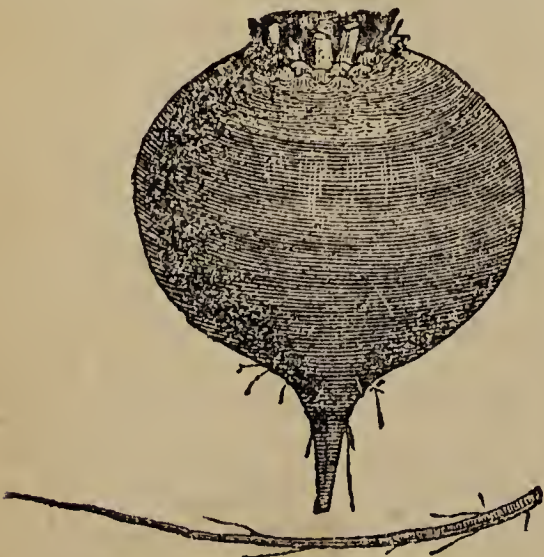
### GARDEN BEETS.

The newest introduction with which we have experimented in this class is *The*



EGYPTIAN BEET.

*Eclipse.* In earliness this is about with the popular and well-known *Egyptian*. It is much more globe-shaped and hence preferred by some but not enough better to warrant the great difference in price of seeds. For early market and family use we would therefore recommend planting the *Egyptian*. The seed of this has heretofore been much higher in price than other



DEWING'S RED TURNIP BEET.

sorts for the reason that it usually seeds very lightly but we have a large supply this season and have put it down to a level with the older and later varieties. Next in earliness to the *Egyptian* is the *Dewing's Red Turnip* which we consider the best of all for main crop and for general market or home use. The *Long Smooth Blood* is an old and well-known winter variety.

### SWEET CORN.

The *Early Minnesota* has for several years been the standard for very earliest use, but of late the *Red River* and *Early*

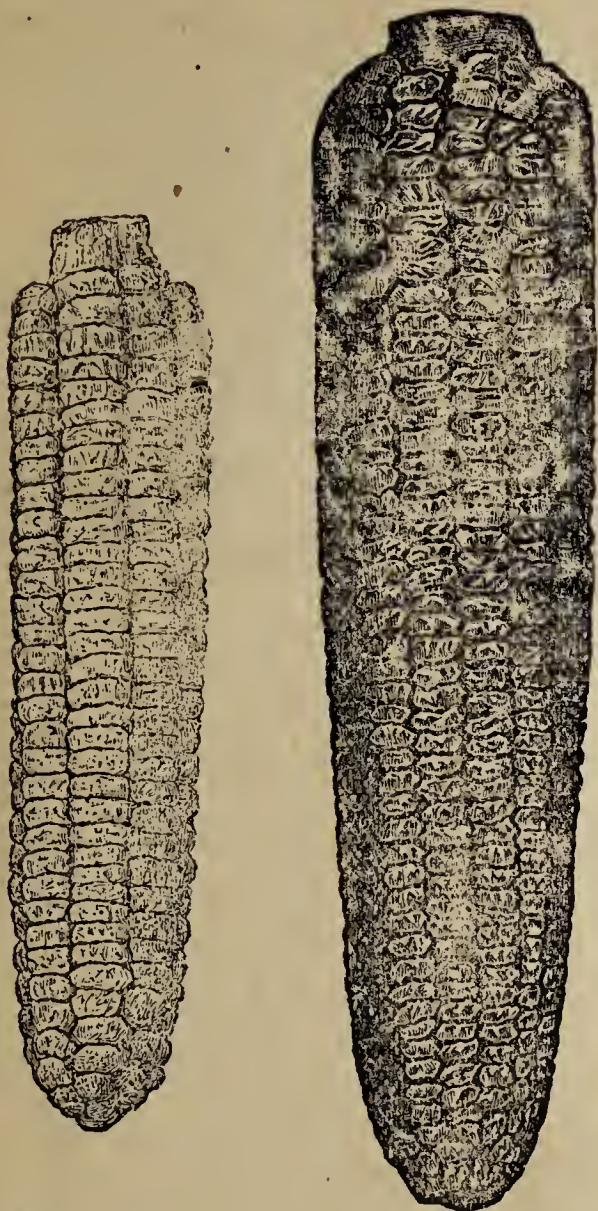


EGYPTIAN SWEET CORN.

*Marblehead* have largely taken its place. We show a cut of *Early Marblehead* much reduced in size. We believe that this is now destined to supersede all others for very earliest use. It seems almost impossible to think of improving it. For general use the *Amber Cream* is becoming very popular. It is a tall growing, medium ear-



ly variety producing an abundance of very long ears which are of extra fine quality. For latest use the Egyptian is now the



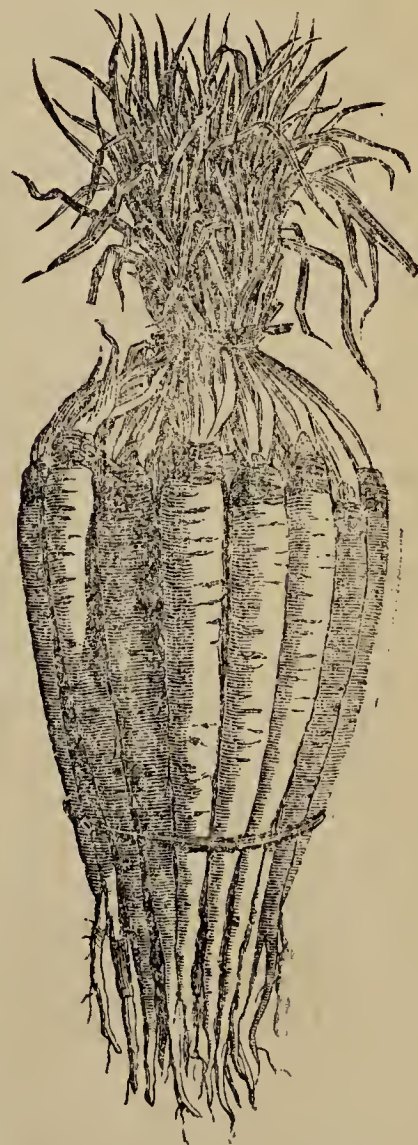
EARLY MARBLEHEAD. | AMBER CREAM.

most popular. It is very tall and very late but productive and of exceedingly fine quality. The above varieties planted at the same time will give a succession of roasting ears throughout the season. But if a more complete supply is wanted Crosby's Early will come in between the Marblehead and Amber Cream, and Black Mexican between Amber Cream and Egyptian.

## Stick to the Onion Crop.

There is an almost irresistible power which frequently governs planters, in spite of what should be their better judgment to the contrary, in wavering with the market in planting potatoes, onions and other staple and perishable crops. A large crop of onions was grown last season and they are now dull in market. As a result thousands will say "onions don't pay any longer, I'll plant none this season." So they wisely (?) plant some other crop instead and just so certain as another year rolls around the reaction comes and onions sell quickly at very profitable rates. Surprised at this, all

are again ready to plant; another large crop and low prices is the result. Now coolly look back over the last ten years and see who has made the most money, he who plants right along regardless of the outlook, or he who lets the present dull market prevent him from planting? The former is the lucky man according to our observation. Crops which are not perishable, like grain, &c., do not fluctuate much, as a surplus of one year is easily carried over and helps to bridge over a short crop should it occur the next; but onions, potatoes and all crops which cannot be carried over, periodically go up and down in price, and he who plants his usual acreage, regardless of present indications, or else works by the rule of contrary and plants most heavily when the products sell the lowest, is the man who makes the money. Onions and onion seeds are now cheap, and in our opinion this is the year to plant them heavily.



THE VEGETABLE OYSTER.

This plant is very hardy and easily grown and is not perhaps as generally grown and used as it deserves to be. The seeds should be sown and cultivated in a manner similar to parsnips. The roots when cut into slices and made into a soup or stew make a very good substitute for an oyster stew.



## SEED-TIME AND HARVEST.



**TEXAS RED HYBRID BLACKBERRY.**

Disseminated by Mr. R. H. Haines, Moorestown, Burlington Co., N. J.

### NOTES AND GLEANINGS.

THE FOLLOWING sensible ideas are found in the *Southern World* and will, we think, if carried out, prove as valuable in Maine as in Georgia:—"Vegetables need a cool, loamy, moist soil deeply broken and thoroughly pulverized. All observant Southern gardeners have noticed the beneficial effects upon the soil, produced by the very heavy mulch used on Irish potatoes after it is decomposed and incorporated with the soil. It darkens its color thus increasing its power of absorbing heat; it improves the mechanical condition of the soil rendering it more pulverulent and enabling it to better absorb and retain moisture; it adds to the supply of plant food in the soil whatever the substance used for the mulch contains, and in a readily available form.

Now let us learn a lesson from this observation and utilize otherwise wasted material in preparing a most valuable vegetable compost for the garden.

Select some convenient point readily accessible from the garden and house. Dig out a space ten feet in diameter and two feet deep. Into this pit collect the weeds, grass, trash and scrapings of the walks in the garden, sweepings of the yard, scrapings from the fence corners and occasionally scrapings about the horse and cow lots.

When any considerable quantity of green vegetable matter is thrown into the pit sprinkle air-slacked lime over it and throw in a layer of earth. Empty all slops from the house and kitchen over the heap. Throw the ashes and soapsuds, sweepings from the fowl-house—indeed all refuse matter collected about the premises into the heap. Continue this through the summer and fall. Before plowing the garden in winter cut down the heap and mingle with it a few sacks of high grade super-phosphate and spread broadcast over the soil. A large quantity of vegetable mold may be collected through the year in this way which from our experience with it is inferior to nothing we have ever applied. A quantity of good manure may thus be collected principally from substances which would otherwise be wasted."

AN OHIO MAN has invented a grain drill which sows the grain upon the surface of the prepared ground in a row six inches broad and covers it by shovels which throw the surface soil over it, leaving an open furrow between the rows of wheat. His drill tubes are one foot apart, so that half the land is occupied with grain and half with furrows between. By this method he deepens the soil by placing the seed at the surface and then putting the surface soil from between the rows on top of it.



The grain is less apt to be injured by surface water, and very superior grain is said to be the result of practice in this new departure.

**POTATO CULTURE.** I usually open rows about three feet apart and put the sets 18 inches apart in the row. I put one potato to each hill. While the largest, ripest potatoes are drier, more mealy and palatable to eat, they have parted with some of their vitality and reproductive power, and are not so good for seed as the smaller and less ripened ones of the crop; hence from these I select my seed. Success in growing potatoes depends vastly more on a rich, well prepared bed or soil to grow in, and a propitious season, than in the thousand and one ways recommended in the papers, by individuals, about selecting and manipulating the seed before and at the time of planting. On such soil as I use to grow potatoes, I always had the best luck to plant about four inches deep as a general rule. I keep the surface level and clear from weeds until the last time of hoeing; when some of the loose earth from the middle of the rows should be brought around the plants to make the hills slightly elevated.—R. S., Willington, Mass.

**WHAT CONSTITUTES A GRADE?**—Custom makes the only rule in such cases, and custom does not designate a cross between two distinct breeds as a grade, but rather as a cross-bred beast. When one of the progenitors is of a pure breed and the other is of a mixed origin, the custom is to designate such an animal as a grade Short-horn, grade Hereford, grade Berkshire, etc., taking the name of the breed to which the pure-bred ancestor belongs.—National Live-Stock Journal.

**MR. W. H. WHITE**, a level headed Massachusetts farmer, says that in his own experience and observation, he has found that the sooner manure incorporated in the soil, the greater and better the effect on the soil, and the better the crop immediately following such application. Hence he has come to the conclusion that much of the value of barn manure may be lost, by being exposed to the sun, air and rains, and that spreading manure on the surface of the land to be plowed, to remain long, unless in a rainy time or when the ground is covered with snow is bad practice; as the sun and air will positively draw off its virtues, according to the length of

time exposed. He also concludes that manure in a fine compacted well decomposed state may be spread upon grass lands in early spring, immediately after cutting the first crop, or in late fall, and very little of its virtue will evaporate or be lost, if the grass grows freely to shade it when the season becomes warm, and that the best possible way of applying manure to cultivated lands, is to plow it in, or otherwise incorporate it into the first one or two inches of surface soil and the finer the manure is made, the more thoroughly mixed in the soil, the better the results.

**ONE OF THE BEST** and most effectual remedies for curculio on plum trees is to put a pailful of coal tar in an old barrel, fill the barrel with water and stir it up. The tar will settle to the bottom and leave the water strongly scented with it. As soon as the plums have set take a garden pump and sprinkler and shower the trees with this tar water. After a heavy rain repeat it several times during the season if necessary. We believe the same medicine would prove an effective cure for currant worms, codling moths and perhaps potato bugs, but for currant worms the application should be made as soon as the leaf buds begin to open as the eggs are laid very early.

**MR. MASSEY**, successfully grows egg-plants by keeping them in pots in his greenhouse until his tomato plants are set in the field or sold and a quantity thus liberated. They are then planted in the frames, two plants to each sash. Put on the sash and give air only at the back. Uncover during warm rains but keep covered nights until the middle of June, or until they crowd against the glasses. They are extremely tender and cannot be hardened to low temperature as the tomato can. He has thus put them on the Norfolk market at \$4.00 per basket.

**A GREAT MANY FARMERS** seem to think that they are the only laborers in the world. This is a very foolish thing. Farmers cannot get along without the mechanic. You are not independent of the man of genius. Your prosperity depends upon the inventor. The world advances by the assistance of all laborers; and all labor is under obligations to the inventions of genius. The inventor does as much for agriculture as he who tills the soil. All laboring men should be brothers. You are in partnership with the mechanics who make your reapers, your mowers and your plows; and you should take into your Granges all the men who make their living by honest labor. The laboring people should unite, and protect themselves against all idlers.



JONATHAN TALCOTT believes the best roots for stook are the Long Orange Carrot, White French or Sweet German Turnip, and potatoes. The carrots he would feed with meal or shorts to dairy cows. There is something in roots thus fed, he thinks, that seems to give an animal a better appetite, and consequently, a greater gain than when dry food alone is used.

THERE OUGHT TO BE a law making it a crime, punishable by imprisonment, to fry beefsteak. Broil it; it is just as easy, and when broiled it is delicious. Fried beefsteak is not fit for a wild beast. You can broil even on a stove. Shut the front damper—open the back one, then take off a griddle. There will be a draft downwards through this opening. Put on your steak, using a wire broiler, and not a particle of smoke will touch it, for the reason that the smoke goes down. If you try to broil it with the front damper open, the smoke will rise. For broiling, coal, even soft coal, makes a better fire than wood.

IS VERY EVIDENT that the cultivation of flax will greatly increase in this country soon. And it is just as evident that its production must prove profitable. The annual importation of flax and flax products costs this country over \$20,000,000, every ounce of which might just as well be grown at home. Great Britain annually imports from Russia, Germany, Belgian and Holland about \$23,000,000 worth.

THE BENEFITS OF ESTABLISHING CREAMERIES are summed up in a telling manner by a Connecticut farmer as follows. "I keep half a dozen cows, my wife makes as good butter as is made in the Connecticut Valley, and I sell it to private customers at top prices. Notwithstanding this, I am going into the creamery, because it makes so much less work in the house, and I can keep two or three more cows and not work nearly as hard as I do now, and make more money, make more manure, improve my farm and enjoy life more. Perhaps the creamery won't return one quite as much money for my butter as I now get from my customers, but I sha'n't have the bother and worry of making and selling it, and to be relieved of this I consider a great thing." These are our sentiments exactly.

THE BEAN WEEVIL is an insect pest which is rapidly spreading over our country and is likely to do great injury to this staple crop. It is closely allied to the pea weevil but is in effect much more damaging, first because while the pea weevil rarely if ever produces more than one insect in a pea, the bean is frequently found with from one to a dozen in each seed. Again peas

are principally used for food in the green state before the weevils show if the egg or germ is present, while beans in a dry or mature state form an important article of food and the maturing weevils or larvae in them do not tend to make them any more palatable to say the least. The parent beetle lays her eggs on the outside of the young pod, the grubs when hatched eating their way into the bean where they remain dormant in the pupa state until spring, usually after the beans have been planted, unless they are kept in a warm place when their maturity is hastened. As the time for planting beans is approaching it will be well to remember that the only way to check or abate this nuisance is to plant no affected seed. If there could be co-operation in this matter their increase could be baffled. Seed beans intended for planting should be placed in a tight bag and kept in a very warm room for some weeks when the weevils will develop sufficiently to be easily scalded without injury to the seed. Or if the seed is kept confined in a bag until it is two years old the weevils will all be dead. The evil will never be checked until united action is taken.

MR. CASPER HILLER, Conestoga, Penna., speaking before the Lancaster Agricultural Society of the practicability of dispensing with division fences, said that "the expense of keeping them up is greater than to hire a man to look after the cattle." Mr. H. M. Engle declared that "the law should make every man take care of his own animals instead of compelling him to protect himself against those of his neighbors." A committee was appointed to 'examine into this question and report at the next meeting.

THERE IS AN INGREDIENT which every successful business man mixes in one way or another with his business. Some are slow to see it; in fact are so little acquainted with it even in its clearest and purest forms that they try to express themselves when speaking of it by using such phrases as "Good Luck," "Born Happy and Lucky," and a host of other expressions which, when they all are put together and are boiled down the thing obtained is BRAINS.—Dr. Byron D. Halsey.

TO PROTECT FARM TOOLS.—An excellent preparation for the preservation of the iron work of farm implements, may be made by the slow melting together of six or eight parts of lard to one of resin, stirring till cool. This remains semi-fluid, always ready for use, the resin preventing rancidity and supplying an air-tight film. Rubbed on a bright surface ever so thinly it protects and preserves the polish effectually.



From our Special Correspondent.

A TRIP ACROSS THE CONTINENT.

(Continued from January Number.)

SAN FRANCISCO, Cal., Oct. 9, 1883.

We are now getting over the effects of the long ride. It took us some time to get the jolting, jarring noise out of our heads and out of our brains. When we would sleep it would still seem to us that we were whirling on and on and we could not sleep much better the first night than we did on the cars. We have a pleasant room, well furnished and have good board and pleasant surroundings. We got here Saturday morning, and spent the forenoon in trying to sleep and rest up a little. In the afternoon we took a ride through the city on the cable cars, that run without horses or engine, over the hills upon which the city is built, giving us good general views of the city. Sunday we visited the Golden Gate Park, where, in a conservatory we saw the Victoria Lily, with twenty-four leaves five feet in diameter and a blossom large as a human head, and also many other rare plants and flowers. Then we visited Woodward's Gardens where were many plants, flowers, fishes, animals, museum, &c. In the evening I went to Church. This forenoon we walked through Chinese Quarters, and in the afternoon took a walk along the wharf to see the ships and steamboats, and also looked in the stove shops and crockery houses for stove and dishes, but did not buy anything except a beautiful china cup and saucer we bought of a Chinaman. We got our trunks all right, only we had to pay \$11.30 extra on them for over weight. Our friends who were going to Seattle are at another hotel but we visit back and forth and like them first rate. Our Steamer, the *Geo. W. Elder*, will start to-morrow at 2 P. M. Since the first forenoon (when it rained) we have had very pleasant weather here. The afternoon breeze from the ocean is a little raw, but on the whole the temperature is just about right for health and comfort. It is better now than it is in summer I am told. There is quite a rush for Oregon and Washington Territory, and the papers say that the ho-

tels in Seattle are all full and people there living in tents. We feel very thankful to get through the rail road part of our journey safely. We had good company, and on the whole got through very pleasantly, but it is a long tedious journey and were it not for the grand scenery, would be very disagreeable. We now hope for a smooth sea, on our ocean voyage. Will drop a postal before we sail, but will then have to wait till we reach Seattle before we can write again.

Tuesday Morning, Oct. 10th.

We feel pretty well this morning. Shall pack our trunks and set out again for Seattle, to-day.

SAN FRANCISCO, Cal., Oct. 10.

At the Wharf, 1, P. M.

We are waiting to go on board our Steamer the *Geo. W. Elder*. It looks like a strong, safe, nice boat and is a screw propeller Ocean Steamer. Our room is in the saloon near the center of the vessel. It is raining here again, but we hope to find smooth water outside. This is the last you will hear from us for about a week. We start off well and rested.

SEATTLE, Wash. Ter., Oct. 15, 9 A. M.

We arrived here this morning at 5 o'clock. Got up and hunted for a hotel. Found a stopping place at the Occidental. There are several fine, large, hotels here, but all crammed full. It beats all, how Seattle is growing, there is a perfect rush here. We had a good breakfast, but can find no rooms yet. Our trunks are on the stoop and we are resting in the bar room and in the parlor. It rains as usual, but the the air is warm, soft, invigorating and pure. I again get the perfume of the fir and cedar woods. We are all well. I feel the best I have since leaving home. A steamer leaves here to night for La Conner, and another leaves in the morning. I had rather go by daylight and we want to buy some household goods here. I don't know yet when we will start from here. I missed the chance of a lifetime, that I did not buy a lot here in 1872, when I first saw this place. I expect just as good chances are open if I only knew where. I mailed a letter from Victoria, giving an account of our



ocean voyage, but thinking this may reach you first I will repeat the account. We sailed out of San Francisco Harbor at 3 P. M. Oct. 10th. I had a good view of the city from Golden Gate, but as soon as we got out on the ocean it grew rough and the ship rolled and tumbled. Emma got sea sick, as also did most every one on board. I fought against it, ate my supper and went to bed. Next morning I could not take any breakfast, and soon threw up. I had plenty of company at same business. I was sick all day Wednesday, but got over it so I could eat again on Thursday. The steamer kept up her rolling and tossing however, and on Thursday night the wind blew a gale all night. I was well and over the sickness then, but Emma and in fact nearly all of the passengers and some of the crew were fearfully sick and a great many alarmed for our safety. I knew the ship was a strong one, and I had seen rougher water in 1872, but of course was anxious, as I knew our safety depended upon the strength of the vessel and its machinery. The storm ceased Friday, but the sea was rough and the vessel kept up her tumbling until we got into the straits of Fuca on Friday night. All day Saturday we lay at Victoria, where the steamer unloaded over 500 tons of freight. There we saw for the first time the most of our passengers who had been abed the whole of the journey three and one-half days. It was like a resurrection to see the pale and haggard ghosts crawling out of their berths. Of course all got well again and the tables were crowded with hungry people. We took walks around Victoria, and had quite a refreshing rest. We left them at 4 o'clock Saturday night, and were at Port Townsend at bed time. Woke up this morning at Seattle. We had no more rough tumbling after we entered the Sound. The grass is green and nature is lovely here, only it rains. In all our journey we haven't seen a town anywhere so full of strongers or so rapidly building up as they are here. The rush of "Westward Ho!" has struck the Sound and no man knows when it will stop. We feel very thankful that we have reached here safe and sound, and hope to be among old friends and acquaintances to-

morrow. I will write more when we get to a stopping place.

### Texas Red Hybrid Blackberry.

This is rather an anomalous name for a berry, being some like that of the white blackbird, but while the name may seem strange, there is no doubt about its being a veritable blackberry, although red in color. Mr. R. H. Haines, is the disseminator of it, which would seem a guarantee of its good qualities. He claims for it exceeding earliness as well as productiveness, it being ripe from ten days, to two weeks ahead of other sorts.



SCHIZANTHUS PAPILIONACEUS.

Brakemen are so called because they break to the passengers the news of arrival at each station. They usually break it so effectively that no one passenger gets more than a small fragment of the name.

A deaf mute used the new audiphone. "Can you pay me that five dollars?" These were the first words he heard. "I prefer to remain in my original condition," he said sternly, and threw the audiphone out of the window.





### Old Ironclad Strawberry.

Mr. A. M. Purdy of Palmyra, N. Y., editor of *Purdy's Fruit Recorder*, and whose name has frequently appeared in our advertising columns seems to have an eye to all parts of the country, especially where small fruits are grown, looking out for something new in his line. One of the latest of his acquisitions and one which is undoubtedly destined to prove a success is the new strawberry which he is now disseminating and which he has named Old Ironclad. He says of it: "In our long experience in growing strawberries and having grown every sort worth growing that we have heard of, we find this sort *distinct* in growth of plant from any other variety we have grown." The fruit resembles the Sharpless greatly in size and shape. Five days earlier than Wilson's; blossoms perfect, requiring no other plants to be set near it for fertilization. Our cut gives a fair representation of some specimen berries. Purdy's catalogue is worth getting and tells all about it.

In his youth Schiller learned to play upon the harp. A neighbor who disliked it once said to him: "Herr Schiller, you play like David, only not so finely." "And you," quickly replied Schiller, "speak like Solomon, only not so wisely."

Some write, talk and think so much about vice and virtue that they have no time to practice either.

### THE FARMER.

The king may rule o'er land and sea,  
The lord may have right royally,  
The soldier ride in pomp and pride,  
The sailor roam o'er ocean wide,  
But this, or that, whate'er befall,  
The Farmer he must feed them all.

The writer thinks, the poet sings,  
The craftsmen fashion wondrous things,  
The doctor heals, the lawyer pleads,  
The miner follows the precious leads,  
But this, or that, whate'er befall,  
The Farmer he must feed them all.

The merchant he may buy and sell,  
The teacher do his duty well,  
But men may toil through busy days,  
Or men may stroll through pleasant ways,  
From king to beggar whate'er befall,  
The Farmer he must feed them all.

The farmer's trade is one of worth,  
He's partner with the sky and earth,  
He's partner with the sun and rain,  
And no man loses for his gain,  
And men may rise, or men may fall  
But the Farmer he must feed them all.

The farmer dares his mind to speak,  
He has no gift or place to seek,  
To no man living need he bow;  
The man who walks behind the plow  
Is his own master, whate'er befall,  
And king or beggar he feeds us all.

—New York Ledger.

A man who was kept awake hour after hour by the barking of a dog, said he never wanted to use a shotgun so bad in his life. "What for—to shoot the dog?" asked a friend. "No," he replied, "but to shoot the fool who wrote: 'Tis sweet to hear the watch dog's honest bark.'"



## LETTERS FROM THE PEOPLE.

## BEAN WEEVILS.

Tiblow, Kan., July 24, 1882.

I. F. Tillinghast;

Dear Sir, I saw an inquiry in the last number of your valuable paper of a remedy for Bean and Pea weevils. Here is one that we have used for years and it has never failed in one instance.

Take Gum Camphor, 1 oz. to 5 bushels of seed. Pulverize it well, and stir it through the seed with the hand, and if the weevil is in them they will do no more damage. Hoping this will benefit the world, I remain,

Yours Truly, W. W. FISHER.

Canton, O., Nov. 9th 1882.

Dear Sir; I saw an answer in number 13 of SEED-TIME AND HARVEST (November number) a writer claiming that after dipping Peas and Beans in coal oil a short time you would have no further trouble with bugs. (I think after such treatment the germ of the pea would be gone.) And another one recommended scalding. I would say, do as I do, hand pick your peas and beans a little while before you plant as there are rainy days enough that time of the year to do it, then you can be sure of having a full stand of plants, for what good does scalding or other soakings do when the bug is started in your peas when they are yet green. Look, and you can see the larve seated at the germ which he will hurt and eat his way out and look at you. As for the bean, I have not examined so closely but by what I saw, it is worked similar to the operation of the pea insect, that is, they are punctured while in the pods, and the insect works its way inward where it finds a kind of hollow for its abiding place before beginning its work. Yours Truly, S. RUPERT.

## BIG POTATO YIELD.

Keelersburg, Pa., Oct. 24, 1882.

Mr. Tillinghast;

Dear Sir, I see in your last issue of SEED-TIME AND HARVEST, that you ask those who have had seeds &c., to experiment upon should report to you. The half pound of Wall's Orange potato that I bought of you last spring I took your advice upon, and split the eyes until I got 42 pieces and planted them. Every one grew. A few days ago I dug and weighed them and had one hundred and fifty pounds. We cooked half a dozen, the quality was No 1. The Beauty of Hebron did finely. The Belle and

White Elephant were planted on ground that was too wet, they did not succeed as well. The Wall's Orange potatoes that I raised were of fine size, scarcely one but that was large enough for the table. Yours Truly, S. G. SMITH.

This was pretty good, but we have reports of larger yields.—ED.

## MIXED SEEDS.

Holland, Mich., Oct. 30, 1882.

Mr. I. F. Tillinghast;

I like your paper very well. Your seeds are honest and reliable. The mixed cabbage did first rate, always cabbage from first to last. Also radish, although I think summer radish seeds mixed and winter radish seeds mixed each by themselves would suit me full as well. Carrots did the best I ever had. It seemed as though they made a race to beat each other, even the Early Short Horn were short until June, 1½ to 2 inches across. I could suit everybody from novice to a horse-jockey. I will recommend your seeds. Yours etc.

E. B. M. WESTEHOF.

We have accepted your suggestion in regard to mixing the radish seeds as will be seen by referring to our list. Thanks for your kind efforts in our behalf.—ED.

## GOOD WORDS.

Drinker, Pa., Oct. 31, 1882.

Mr. I. F. Tillinghast;

Dear Sir, Find enclosed 50 cts., to pay for the SEED-TIME AND HARVEST one year. I am glad you have begun to publish it monthly instead of quarterly. I don't like to miss a number of it. I had the best onions from your Red Wethersfield seed that I ever had. I hope your SEED-TIME AND HARVEST may grow larger and better every year.

LAFAYETTE SPANGENBURG.

Thanks for your kind wishes. We also hope it will grow larger and better. Of course there is room for improvement in both size and quality, and we hope our friends will not forget that they can aid us greatly in making improvements if they only will. Write us your garden experiences for publication and get your friends to join our ranks and we will grow and develop faster than the onions you speak of.—ED.

## SOME ONIONS.

Upper Alton, Ill., Nov. 6, 1888.

I. F. Tillinghast;

Dear Sir; I wish to tell you of my success with the two varieties of Onion seed which I ordered of you, Early Queen and White Portugal. They came up well, grew splendidly and produced fine onions. Those who saw them would hardly believe that such large onions could be grown from seed. Some of Early Queen measured 2½ inches in diameter, White Portugal 3 inches. I will give you my method of growing early onions here in this locality and many others which I could name



where we have hot dry summers to contend with. If we do not plant our onions early, we cannot average more than half a crop. First prepare the land by manuring well with rotten manure, cow or hog manure is best and may be used fresh. Where land is too heavy and clayey to work well put on a sufficient quantity of sand and manure to make a nice mellow soil. Land prepared in the fall or early winter can be planted earlier than if left until spring, and will produce a crop of early onions if properly cultivated that will surprise the grower, and such land will do to grow onions on an indefinite length of time providing it gets a coat of manure or some good fertilizer well worked in every fall. Land thus prepared, if properly managed should and will grow some other crop after onions come off. Three crops can be grown on land when in a high state of cultivation if the season is favorable. The next step to be taken after preparing land is to procure good seed from some reliable dealer, cheap seed nine times out of ten will be dear in the end. For early onions, seed should be sown in open ground from the middle of February to the tenth of March, providing the land can be put in proper condition to receive the seed. But if the land is too wet and heavy and cannot be worked by that time I would then sow seed thickly on mild hot-bed in rows about two inches apart, and grow plants to be transplanted in open ground. It is less labor to set an acre in plants than to sow the same land with seed and then hand weed young plants the first time they are worked. If seed are sown in hot-bed and plants transplanted in the open ground, you can destroy one crop of weeds before transplanting, and your plants will get started before the second crop of weeds comes on.

Yours Truly, G. W. T.

## FLAT CULTIVATION FOR POTATOES.

Rockford, Minn., Nov. 20, 1882.

I. F. Tillinghast;

Dear Sir: The seeds I received from you last spring were as near perfect as any I ever purchased of any one. The onion seed especially was excellent. I sowed the White Portugal seed at less than three pounds per acre, and had to thin out a good deal to give room for onions to form. The one pound of Belle potatoes was cut to single eyes and put in a box of sand and put in the house, and transplanted to the open ground when the weather was warm enough. Soil a clay loam, on a hard clay subsoil. Previous crop for several years, wheat with no manure whatever, as far back as known. Cultivation flat, mostly with a Planet Jr. Wheel Hoe. Total yield 82½ lbs. Total yield of eatable size 72½ lbs. Largest potato weighed 1¾ lbs. Largest four potatoes weighed 5½ lbs. No. of eyes 48, and 2 sprouts. Quality good.

Yours &amp;c., E. K. SMITH.

We see there is a strong feeling coming up in favor of flat cultivation for potatoes. We have always practiced hilling, but think we shall give the flat culture a trial another year. We hope others will also, and report the comparative results.—ED.

## HOW HE DID IT.

St. John's Asylum, Ky., Nov. 20, 1882.

Mr. Isaac F. Tillinghast;

Dear Sir, The seed I received of you last spring did splendidly. The True Jersey Wake-field cabbage beat all I ever saw. I raised eight hundred plants from the package, and every one of them headed up solid. The Red Wethersfield onion seed, I planted and raised some that weighed a pound. The celery seed I got of you produced some of the finest celery I ever saw. My neighbors say it cannot be beat. I will tell you how I raised it. It is my first attempt. First I sowed the seed in a plant bed the tenth of May, and the first of July I set the plants in a trench about eighteen inches deep filled with rotted manure, I set plants ten inches apart. I hoed it once, and about the middle of September I tried a process for bleaching which beats anything I ever saw. I pulled some crab grass, (that's what we call it,) and wrapped it around the celery from the bottom to the top, leaving the top open, then I drew some earth up to it to hold the grass. I never bothered it more until the 15th of this month, then I removed it to my cellar. It was as white as chalk and as clean as if it had been washed. I think I shall raise an acre next season. SEED-TIME AND HARVEST is a welcome visitor at my house, it comes regularly and it is one of the best papers I take. Long may it survive!

Yours Truly, J. P. ELLIS.

Thanks, for your report. We have been thinking that something ought to be put around celery to keep it clean. We are glad to receive instructive items for publication.—ED.

## PYRETHRUM.

Charlotte, Me., Dec. 1882.

Mr. Editor;—Will you be kind enough to state in next number of SEED-TIME AND HARVEST what kind of soil, climate and cultivation, Pyrethrum Cinerariaefolium requires. Will you have some of the seeds to sell next season? If it will grow in the open air in our climate. I for one would like to try the experiment of planting some among some potatoes, squashes and other plants which are injured by insect enemies.

We have never experimented with Pyrethium plants. Should be pleased to have reports from any of our readers who have. We doubt, however whether growing the plants among vegetables would keep insects off. It is the blossoms finely ground into a powder which is used as an insecticide.

## ANOTHER POTATO REPORT.

Dalton, Muskegon Co., Mich., Jan. 26, 1883.

Isaac F. Tillinghast, Esq.,

Dear Sir,—I had intended before now to have given you the result of my venture on one fourth bushel of Belle potatoes, and one half bound of Wall's Orange purchased of you for last spring's planting, but not finding time before, I now come to it. I planted seven and one half pounds of the Belle, in good



garden soil, on the 29th day of April 1882, in rows four feet apart, cutting to single eyes, and planting one eye in a place, eighteen inches apart in the rows, furrowing the rows four inches deep. They came up well and grew vigorously, being the strongest growing potato I have ever seen except the Wall's Orange, which fully equalled it in my grounds. Cultivated once with horse and cultivator, after which I kept the weeds down with hoe and hand cultivator giving them entirely level cultivation. Soil sandy loam with a slight mixture of clay, not sufficient however to bake in the sun. The vines fully covered the ground. Sept. 27th, I dug from the seven and one-half pounds planting, twenty and a half bushels of very nice potatoes, and also in addition, one bushel of small and sun-burned potatoes, making twenty-one and one-half bushels of Belle. My son planted the other seven and one-half pounds, in sandy loam soil, in a fair state of cultivation upon ground where potatoes were grown the year previous, giving as he says a hard trial for them. Getting ten and one-fourth bushels of choice sizable potatoes for the table, making in this venture a good investment. I think the Belle a great acquisition.

The  $\frac{1}{2}$  lb. of Wall's Orange, I planted April 26th, 1882, on an experimental plot of ground. Soil same as that upon which the Belle was planted with the exception that one-half of the ground had the fall previous been fitted for onions having had a liberal supply of hen guano and fine barn-yard manure. I cut to single eyes, planted in rows four feet apart, putting a single eye in a place eighteen inches between in the rows and four inches deep, making twenty-four eyes, and three rows of eight eyes to a row, one-half of which were on the onion bed; the rest not manured.

I also planted one row of eight eyes each, on the same plot with same cultivation every way, except the single eyes were much larger, of the following three kinds: Belle, White Peachblow and Early Vermont; all cultivated the same with hoe and hand cultivator and level cultivation. All came up well but the Colorado potato bugs destroyed all but eight eyes of the Wall's Orange and injured the others considerably before I could head them off. Sept. 29th I dug the eight eyes of Wall's Orange, getting 64 pounds of good size potatoes and 7 pounds of small potatoes. The Belle from eight eyes produced 56 lbs., the Peachblow 48 lbs., and the Early Vermont 52 lbs., all yielding best on the soil without manure—not generally the case however. On trial of the Orange for eating qualities, we all say it equals the best we have ever grown not excepting the White Peachblow; will also say that knowing all of the circumstances attending the growth of the Wall's Orange that it was no fault of the potato that I lost two thirds of the seed, but my fault. First, I should not have cut them so fine, the potatoes you sent me being small size. Second, I should not have planted so early, should have waited until other potatoes were up, so as not to gather all of the bugs on so small a piece of potatoes. I think them also a valuable acquisition to the list of potatoes.

Yours truly,

H. S. TAYLOR.

#### SITUATION OF FERTILIZERS

Dunbar, Pa., Jan. 30, 1883

Mr. I. F. Tillinghast;

Dear Sir, I notice your reply in SEED-TIME AND HARVEST to my inquiry as to cutting seed potatoes, for which I am obliged. There is a point I overlooked upon which I wanted your advice and which is in regard to situation of concentrated fertilizers when applied in the hill. A late article I have read in regard to growth of potatoes, states that all the rootlets shoot downwards. If that is so, should not the phosphate be in the bottom of the furrow and cover slightly before putting in the seed instead of above the seed as I have been doing? Please let me know if you have experimented both ways and your opinion as to the correct plan. Have you sent me a catalogue? If so it has gone astray. Also will you have early cabbage plants to sell, terms, &c? I expected to get this last information from your catalogue. Your reply to the above will be duly appreciated.

Yours Truly,

C. H. KIMBALL.

Our practice in using phosphates for potatoes has been to drop a small handful in the hill and then have it well mixed with the soil before dropping the seed. A man will do this rapidly with a potato fork. Unless the phosphate is thoroughly mixed it often does more damage than good. We shall be pleased to hear from others upon this subject. We have sent you a catalogue for 1883. We shall have no cabbage plants before May.

#### MUCK FOR CELERY.

I read in a back number of SEED-TIME AND HARVEST that there was one man you knew who grow good celery in 1881 and he had a stream of water running in his trench. This put me to thinking. I had one-half acre of swamp muck chopped off a year ago, and drained to take off surface water. I grubbed it in the spring, and at odd times tried all kinds of vegetables, celery included. I set some of the earliest on upland the usual way, the balance I set in the swamp muck in shallow trenches without manure from two to four inches deep as the muck changed from wet to dry. From this experience it proved that dry muck grew celery spontaneously, while the cold wet muck grew weak, sickly plants of all kinds of vegetables as well as celery, cauliflowers in particular. Very late in August I had some nice stocky celery plants left that I did not like to throw away. I had room in the muck near the other earlier, this was set there in double rows as the other but only three inches and less apart, this grew very rapid and at storing time has reached the perfection of the early setting, no difference in size but not quite as well blanched. Sold equally with the early. No manure was used at all, in, on or about the trenches. Its quality, I am informed by consumers, was excelled by none. So crisp, juicy, and sweet, and so brittle that it would scarcely bear handling. This confirms your notes on celery in number 12. I shall ex-



periment larger in the muck the coming season. The upland celery was large but ill-shaped, tough, and strong flavored. After eating the muck celery I condemned the upland as unfit for market. I shall not set celery on upland the coming season, nor as long as the muck gives such good results. Yours Respectfully,

HENRY LOCK,  
Novi, Oakland Co., Mich.

## CABBAGE WORMS AND NEW POTATOES.

SOUTH NORWALK, CT., JULY 4, 1882.

Mr. Isaac F. Tillinghast,

Dear Sir: I see in the July Number of SEED-TIME AND HARVEST you advertise Dalmatian Powder for cabbage worms, &c. Now I would like to try something that would be a sure thing for I have one acre of fall cabbage plants set. Will one pound of powder be enough for the acre, if so let me know at once and I will send for it and how it is used for cabbage. I lost my whole crop last fall by this worm. One of my neighbors has a new potato, he says he found it two years ago among his Early Rose. He planted it last year by the side of the Early Rose, the vines were larger and he said full two weeks earlier. I saw them in his garden, the vines of this variety were ripe and the Early Rose were green; he pulled up a hill and they were very fine looking; he said they yielded certainly one half more than the Early Rose; they look just like the cut of the Defiance in your book. Is the Defiance an early or late potato? I saw this potato growing some three or four weeks ago. The vines were very large, much larger than the Early Rose by the side of them. I am going to see them in a few days and see how they turn out this season.

Yours Very Respectfully,  
P. S. CARVER.

We have not as yet tried the Dalmatian Powder on cabbage worms and can only advise you to procure a small quantity at first and experiment with it yourself. We think it will be found necessary to sprinkle the powder directly upon the worms to exterminate them, as it is not by reason of their eating it, that they are killed. This will no doubt be a great objection to its use as it will be difficult to hit all the worms in making a hasty application. We procured and offered the powder mainly upon the recommendation of others, and hope that our readers will give it a thorough trial and report to us whatever degree of success or failure they may meet.

If the potato you speak of is as early and productive as you claim it will no doubt be valuable. We shall test a large number of new varieties this season and regret that a tuber was not sent us last season as we could then have given a better opinion of its value.

Caramels can be made of sugar, but it is far easier and much cheaper to make them of clay and molasses.

## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. II. WHOLE NO., XVI.  
LA PLUME, LACKAWANNA CO., PA., FEBRUARY, 1883.

THE DELAY caused by the extra work in getting out our enormous January edition has extended to this number but we are working night and day to catch up and hope to get the March number out on time. We request our subscribers to be patient as they will get all the numbers as soon as we can possibly get them printed and mailed.

We again insert our Seed Price List in the advertising department of this number and will continue the offer made in our last to send your own selection of Flower or Vegetable seeds from that list to the amount of \$1.00 and SEED-TIME AND HARVEST monthly for one year for only \$1.00, or for 50 cents the Magazine a year and your own selection of Flower seeds to the amount of 50 cents.

Advertising in SEED-TIME AND HARVEST.—Mr. A. Blanc of Philadelphia, Pa., makes a specialty of engraving for florists, nurserymen and seedsmen. He inserted a fifteen-line advertisement in SEED-TIME AND HARVEST at a cost of \$4.50 per month, at the same time placing the same or a much larger advertisement in nearly all of the Agricultural and Horticultural journals published. As a result he voluntarily writes us under date of Feb. 14th. "I am pleased to say that I believe I am receiving more inquiries for catalogue through your paper than through any other which I advertise."

Mr. S. O. Hawkins of Bucks, Ohio, contracted with us for three inches of space some six months ago in which to tell our readers that he was a breeder of thorough-



bred hogs. Under date of Jan. 23th he writes us as follows: "Please put my electrotpe away for safe keeping as I will want to have you use it again when I get caught up with my orders. I am still receiving orders from SEED-TIME AND HARVEST. *Its work is immense.* Please give me rates by the year for a three-inch space."

The reason that SEED-TIME AND HARVEST pays advertisers is that we try to give value received in circulation. Counting each and every issue since January 1, 1882, our sworn average circulation has been 22,200 copies per issue. Our charge for advertising is 30 cents per nonpariel line, or \$3.60 per inch space, with 20 per cent discount on advertisements running four months or longer.

**Seeds at Wholesale.**—Market Gardeners or Dealers requiring large quantities of seeds (say Ten Dollars worth or over) should send for our new Wholesale List. While the prices we give elsewhere in this issue are as low as good reliable seeds can be mailed in small lots on general orders, we can and will give lower rates on some articles in large quantities. If you wish a large quantity of any particular item write for an estimate or send for Wholesale List.

**Our Colored Plate.**—The elegant Chromo-lithograph of the Golden Dawn Mango in this number was drawn from a photograph which we had taken last fall. While but 11 fruits are shown in this picture we could easily have selected plants on which were eighteen or twenty. It is certainly one of the most extraordinary bearers we ever saw. In our next issue we shall give another colored plate that will delight our farmer friends. None should miss it, so send on your subscriptions before it is too late.

**FREE**—TRIBUNE AND FARMER, three months. Read the great offer in another column and embrace it without delay.

**A Good Book.**—JOHNSON'S PRACTICAL POULTRY KEEPING is one of the most valuable treatises on the care and management of fowls, and in fact everything relating to poultry, that we have ever read. We consider it well worth fifty cents, the price asked for it.

### AMONG OUR EXCHANGES.

The following is a complete list of the various publications which are received regularly at the office of SEED-TIME AND HARVEST with size, price, age and address.

Should our readers desire to see specimen copies of any of them, we think the publishers of all, except perhaps the larger magazines, will gladly send them free upon application. At least one-twelfth of the subscription price should be sent for sample copies of the monthly magazines, as they are very costly affairs and the publishers cannot afford to give them away. All applications for sample copies should be made directly to the publishers as per address given, but we will receive yearly subscriptions to any of them at publisher's prices, and give in addition a copy of SEED-TIME AND HARVEST free for one year with every \$2.00 worth of subscriptions sent us from the list at prices given.

American Agriculturist, Volume 42, 48 pages, monthly, \$1.50. Orange Judd Co., 751 Broadway, New York.

Agricultural Epitomist, Volume 1, 4 pages, semi-monthly, 50 cents. Watsontown, Pa.

American Cultivator, Volume 45, 8 pages, weekly, \$2.00. Geo. P. James, 259 Washington St., Boston, Mass.

American Farmer, (Ninth Series,) Volume 2, 16 pages, Semi-monthly \$1.50. Samuel Sands & Son, Baltimore, Maryland.

American Bee Journal, Volume 19, 16 pages, weekly, \$2.00, monthly, \$1.00. Thos. C. Newman, Chicago, Ill.

American Rural Home, Volume 13, 8 pages, weekly, \$1.00. Rochester, N. Y.

Arthur's Magazine, Volume 51, 76 pages, monthly, \$2.00. T. S. Arthur & Son, Philadelphia, Pa.

Bowditch's Magazine, Volume 4, 32 pages, monthly, \$1.50. W. E. Bowditch, Boston, Mass.

Ballou's Monthly Magazine, Volume 57, 96 pages, monthly, \$1.50. Thomes & Talbot, Boston, Mass.

Century, Volume 25, 194 pages, monthly, \$4.00. Century Co., Union Square, N. Y.

Church-Union, Volume 10, 16 pages, weekly, \$2.50. E. B. Grannis, Tribune Building, N. Y.

Connecticut Farmer, Volume 4, 8 pages, weekly, \$2.00. E. B. Elmer & Co., Hartford, Conn.

Country Gentlemen, Volume 48, 20 pages, weekly, \$2.50. L. Tucker & Son, Albany, N. Y.

Colman's Rural World, Volume 36, 8 pages, weekly, \$1.00. Norman J. Coleman, St. Louis, Mo.

City and Country, Volume 2, 24 pages, monthly, \$1.00. Will C. Turner & Co., Columbus, Ohio.

Demorest's Magazine, Volume 19, 70 pages, monthly, \$2.00. W. Jennings Demorest, 17 East 14 St., N. Y.

Farm and Fireside, Volume 6, 16 pages, semi-monthly, 50 cents. Mast, Crowell & Kirkpatrick, Springfield, Ohio.



Farm and Workshop, Volume 9, 16 pages, monthly, 75 cents. Peoria, Ill.

Farmer's Home Journal, Volume 31, 8 pages, weekly, \$1.50, Louisville, Ky.

Farmer's Advance, Volume 7, 16 pages, monthly, \$1.25. R. S. Thompson, Springfield, Ohio.

Farmer's Review, Volume 10, 16 pages, weekly, \$1.50. Chicago, Ill.

Farmer and Manufacturer, Volume 6, 16 pages, monthly, 50 cts. Cleveland, Ohio.

Farm and Home, Volume 4, 16 pages, monthly, 50 cents. Phelps Publishing Co., Springfield, Mass.

Farm Journal, Volume 7, 16 pages, monthly, 50 cents. Wilmer Atkinson, Phil'a, Pa.

Fruit Recorder, Volume 15, 16 pages, monthly, \$1.00. A. M. Purdy, Palmyra, N. Y.

Gardener's Monthly, Volume 25, 40 pages, monthly, \$2.10. Chas. H. Marot, Philadelphia, Pa.

Green's Fruit Grower, Volume 3, 8 pages, Quarterly, 25 cents. C. A. Green, Clifton, N. Y.

Gleanings in Bee Culture, Volume 11, 48 pages, monthly, \$1.00. A. I. Root, Medina, Ohio.

Housekeeper, Volume 7, 16 pages, monthly, 75 cents. Minneapolis, Minnesota.

Home Circle, Volume 2, 48 pages, monthly, \$1.50. Am. Baptist Pub. Society, Phil'a, Pa.

Home and Farm, Volume 8, 8 pages, semi-monthly, 50 cents. B. F. Avery & Sons, Louisville, Ky.

Kansas Farmer, Volume 21, 16 pages, weekly, \$1.50. Topeka, Kansas.

Ladies' Floral Cabinet, Volume 12, 32 pages, monthly, \$1.25. 22 Vesey St., N. Y.

Little Gem and Kindergarten, Volume 9, 16 pages, monthly, 50 cts. E. B. Grannis, New York.

Midland Farmer, Volume 11, 16 pages, monthly, 60 cents. St. Louis, Mo.

New England Homestead, Volume 17, 8 pages, weekly, \$2.00. Phelps Publishing Co., Springfield, Mass.

North American Review, Volume 135, 100 pages, monthly, \$5.00. 30 La Fayette Place, N. Y.

Neltnor's Fruit and Flower Grower, Volume 1, 48 pages, quarterly, 75 cts. Turner Junction, Ill.

Our Young People, Volume 1, 16 pages, semi-monthly, \$1.00. Mast, Crowell & Kirkpatrick Springfield, Ohio.

Our Home and Science Gossip, Volume 7, monthly, \$1.00. Rockford, Ill.

Outings, Volume 1, 20 pages, monthly, \$1.00. Wm. B. Howland, Albany, N. Y.

Poultry World, Volume 12, 16 pages, monthly, \$1.25. H. H. Stodard, Hartford, Conn.

Popular Science Monthly, Volume 22, 114 pages, monthly, \$5.00. D. Appleton & Co., New York.

Rocky Mountain Rural, Volume 1, 16 pages, monthly, \$1.00. D. S. Grimes, Denver, Col.

Rural New Yorker, Volume 42, 16 pages, weekly, \$2.00. E. S. Carman, 34 Park Row, New York

Rural Record, Volume 1, 16 pages, monthly, \$1.00. Ochs, Yonge & Co., Chattanooga, Tenn.

Rural Nebraska, Volume 14, 16 pages, monthly, \$1.50. W. C. B. Allen, Omaha, Nebraska.

South and West, Volume 3, 8 pages, semi-monthly, 50 cents. Alfred Avery, & Co., St. Louis, Mo.

Scientific American, Volume 48, 16 pages, weekly, \$3.20. Munn & Co., 261 Broadway, New York.

Southern World, Volume 2, 16 pages, monthly, \$1.00. Atlanta, Ga.

Southern Cultivator, Volume 41, 32 pages, monthly, \$1.50. Jas. P. Harrison & Co., Atlanta, Ga.

St. Nicholas, Volume 10, 80 pages, monthly, \$3.00. The Century Co., New York.

The Cottage Hearth, Volume 9, 32 pages, monthly, \$1.50. 11 Broomfield St., Boston, Mass.

The Rural Californian, Volume 6, 16 pages, monthly, \$1.50. Los Angeles, Cal.

The Farm and Garden, Volume 2, 16 pages, monthly, 50 cents. Child Bros. & Co., Phil'a, Pa.

The American Garden, Volume 4, 22 pages, monthly, \$1.00. B. K. Bliss & Sons, 31 Barclay St., New York.

The Sugar Beet, Volume 4, 16 pages, quarterly, 50 cts. H. Carey Baird & Co., Philadelphia, Pa.

The Practical Farmer, Volume 46, 16 pages, weekly, \$1.00. The Farmer Co., No. 9, No. 13th St., Philadelphia, Pa.

Tribune and Farmer, Volume 11, 4 pages, weekly, \$1.00. H. K. Curtis & Co., Philadelphia, Pa.

The Youth's Companion, Volume 56, 8 pages, weekly, \$1.75. Perry Mason & Co., Boston Mass.

Vermont Farmer, Volume 4, 8 pages, weekly, \$1.25. Geo. H. Richmond, Northfield, Vermont.

Vick's Magazine, Volume 5, 32 pages, monthly, \$1.25. James Vick, Rochester, N. Y.

Western Plowman, Volume 3, 16 pages, monthly, 50 cents. Moline, Ill.

Western Farm Journal, Volume 13, 36 pages, Monthly, \$1.00. Des Moines, Iowa.

Wide Awake, Volume 16, 150 pages, monthly, \$2.50. D. Lothrop & Co., Boston, Mass.

Western Rural, Volume 21, 8 pages, weekly, \$1.50. Milton George, 157 Dearborn St., Chicago, Ill.

Weekly Witness, Volume 12, 8 pages, weekly, \$1.00. John Dougal & Co, 21 Vandewater St. N. Y.

## Advertisements.

*We aim to publish the advertisements of trust-worthy parties only and such as we feel assured will deal fairly with their customers. In writing to them please mention SEED-TIME AND HARVEST.*

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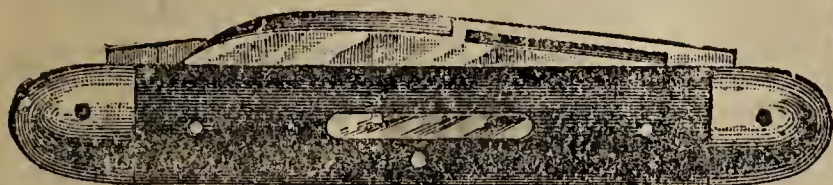
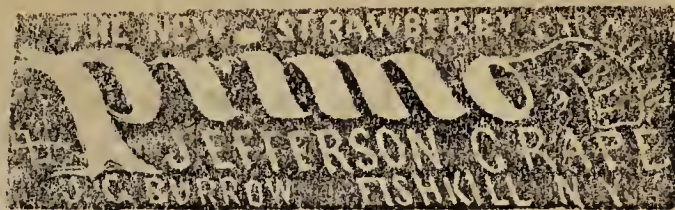
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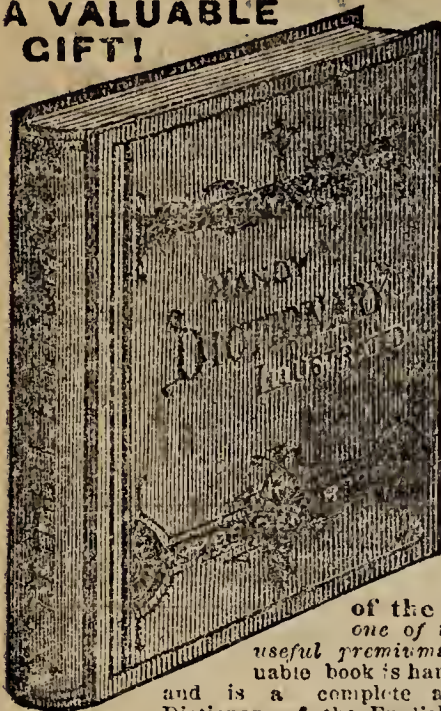
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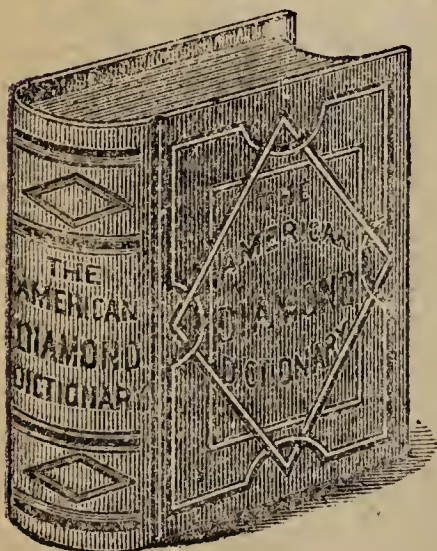
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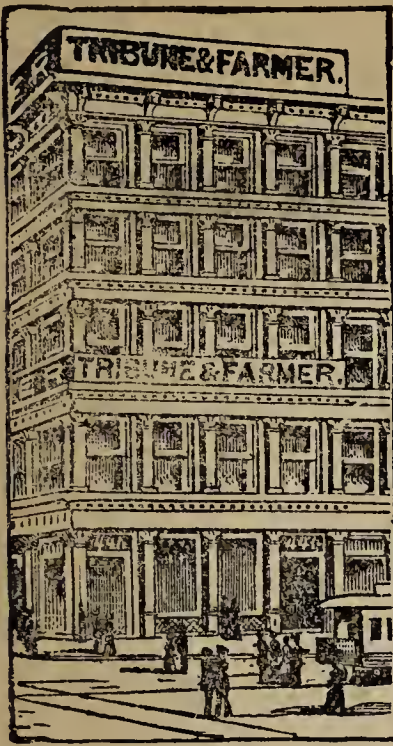
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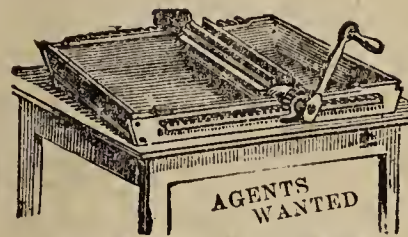
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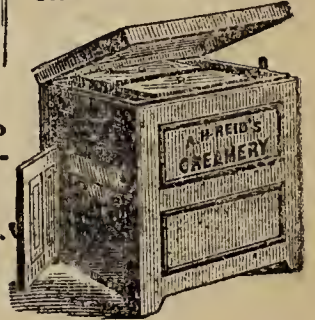
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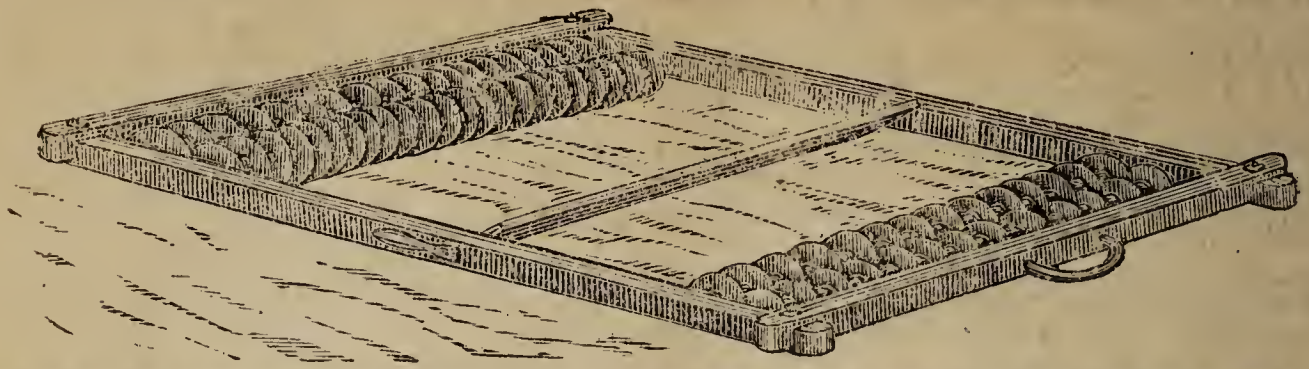
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Improved Long Orange.....	05	10	1.50
Danvers Orange.....	05	10	1.25
White Belgian.....	05	10	1.00
Above Varieties Mixed.....	05	10	

### Celery.

Golden Hartwell, New.....	15		
La Plume Chestnut, New,....	10	1.00	
Crawford's Half Dwarf.....	05	35	5.00
Carter's Dwarf Crimson.....	10	40	
New Golden Dwarf.....	10	50	
Dwarf White Solid.....	05	25	4.00
Boston Market.....	10	50	
Sandringham.....	05	25	4.00
Giant White Solid.....	05	25	4.00
Celeriac, Turnip Rooted,.....	05	25	
Above Varieties Mixed.....	10	30	

### Chicory.

Large Rooted.....	05	10	1.25
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### Cress.

Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	

### Cucumber.

Tailby's Hybrid, New,.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	

### Egg Plant.

Long Purple.....	10	50	
Improved N. Y. Purple.....	10	60	
Very Early Dwarf Purple....	10	50	
Striped Gaudalupe.....	10	60	
Long White China.....	10	60	
Above Varieties Mixed.....	10	60	



# SEED-TIME AND HARVEST.

<table border="0" style="width: 100%;"> <tr> <td><b>Endive.</b></td> <td style="text-align: right;"><i>Pkt.</i></td> <td style="text-align: right;"><i>Oz.</i></td> <td style="text-align: right;"><i>Lb.</i></td> </tr> <tr> <td>Green Curled .....</td> <td style="text-align: right;">05</td> <td style="text-align: right;">20</td> <td style="text-align: right;">2.00</td> </tr> <tr> <td><b>Gourds.</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>New Nest Egg .....</td> <td style="text-align: right;">15</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td><b>Kohl Rabi.</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Large Purple, .....</td> <td style="text-align: right;">10</td> <td style="text-align: right;">35</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Early White Vienna .....</td> <td style="text-align: right;">10</td> <td style="text-align: right;">35</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Above 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.....	05	30	4.00	<b>Musk Melon.</b>				Nutmeg .....	05	10	1.25	Skillman's Netted .....	05	10	1.25	Improved Yellow Cantaloupe .....	05	10	1.25	Green Citron .....	05	10	1.25	Pine Apple .....	05	10	1.25	Jenny Lind .....	05	10	1.25	Surprise, New, .....	05	15	2.00	Bay View, New, .....	05	15	2.00	Montreal Green Nutmeg, New, .....	05	20	3.00	Netted Gem .....	05	20	3.00	Hackensack .....	05	10	2.00	Christiana Orange .....	05	10	2.00	Above Varieties Mixed .....	05	10	1.50	<b>Water Melon.</b>				The "Boss," New, .....	05	20	3.00	Japan Sculptured-Seeded .....	05	20	3.00	Cuban Queen, New .....	05	20	3.00	Phinney's Early .....	05	10	1.25	Striped Gipsy .....	05	10	1.25	Ice Cream .....	05	10	1.25	Mountain Sweet .....	05	10	1.25	Ferry's Peerless .....	05	10	1.25	Citron. 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Ice Cream .....	05	10	1.25																																																																																																																																																																																																																																																																																																					
Mountain Sweet .....	05	10	1.25																																																																																																																																																																																																																																																																																																					
Ferry's Peerless .....	05	10	1.25																																																																																																																																																																																																																																																																																																					
Citron. (for preserving.) .....	05	10	1.25																																																																																																																																																																																																																																																																																																					
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Southport Yellow Globe, New .....	05	25	4.00																																																																																																																																																																																																																																																																																																					
Southport Red Globe, fine, .....	05	25	4.00																																																																																																																																																																																																																																																																																																					
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White Italian Tripoli .....	05	20	3.00																																																																																																																																																																																																																																																																																																					
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Smooth Hollow Crowned .....	05	10	.75																																																																																																																																																																																																																																																																																																					
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Sweet Bell or Bull Nose .....	10	25	4.00																																																																																																																																																																																																																																																																																																					
Large Sweet Mountain .....	10	25	4.00																																																																																																																																																																																																																																																																																																					
Red Cayenne .....	10	25	4.00																																																																																																																																																																																																																																																																																																					
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 |   |             |                |                   |            |     | |---|-------------|----------------|-------------------|------------|-----| | <b>Pumpkin.</b>   | <i>Pkt.</i> | <i>Oz.</i>     | <i>Lb.</i>        |            |     | | Large Cheese .....  | 05          | 10             | .85               |            |     | | Sugar. (Fine for pies,) .....   | 05          | 20             |                   |            |     | | Connecticut Field .....   | 05          | 05             | .45               |            |     | | <b>Radishes.</b>  |             |                |                   |            |     | | Early Scarlet Turnip .....  | 05          | 10             | 1.00              |            |     | | Early White Turnip .....  | 05          | 10             | 1.00              |            |     | | Long Scarlet Short-Top .....  | 05          | 10             | 1.00              |            |     | | Early Scarlet Olive .....   | 05          | 10             | 1.00              |            |     | | French Breakfast .....  | 05          | 10             | 1.00              |            |     | | Grey Summer Turnip .....  | 05          | 10             | 1.50              |            |     | | Golden Yellow Summer (New) .....  | 05          | 10             | 1.50              |            |     | | Summer Varieties Mixed .....  | 05          | 10             | 1.25              |            |     | | China Rose Winter .....   | 05          | 10             | 1.00              |            |     | | Black Spanish Winter .....  | 05          | 10             | 1.00              |            |     | | California Mammoth White .....  | 05          | 15             | 2.00              |            |     | | Winter varieties Mixed .....  | 05          | 10             | 1.50              |            |     | | <b>Rhubarb.</b>   |             |                |                   |            |     | | Linnæus .....   | 05          | 10             | 1.60              |            |     | | <b>Salsify, or Vegetable Oyster.</b>  |             |                |                   |            |     | | White French .....  | 05          | 15             | 2.00              |            |     | | <b>Spinach.</b>   |             |                |                   |            |     | | Round Leaved .....  | 05          | 05             | 0.50              |            |     | | Monstrous Viroflay .....  | 05          | 10             | 1.00              |            |     | | <b>Squash.</b>  |             |                |                   |            |     | | Low's Essex Hybrid, New, .....  | 10          | 15             | 2.50              |            |     | | Early White Bush .....  | 05          | 10             | 1.00              |            |     | | Summer Crookneck .....  | 05          | 10             | 1.00              |            |     | | Hubbard .....   | 05          | 10             | 1.25              |            |     | | Marblehead .....  | 05          | 10             | 1.25              |            |     | | Butman .....  | 05          | 10             | 1.25              |            |     | | Mammoth .....   | 10          | 30             |                   |            |     | | <b>Tobacco.</b>   |             |                |                   |            |     | | Connecticut Seed Leaf .....   | 10          | 30             |                   |            |     | | Kentucky Broad Leaf .....   | 10          | 30             |                   |            |     | | <b>Tomato.</b>  | <i>Pkt.</i> | <i>Hf.-Oz.</i> | <i>Oz.</i>        |            |     | | Livingston's Favorite, New, .....   | 20          |                |                   |            |     | | President Garfield, New, .....  | 10          |                |                   |            |     | | Essex Hybrid, New .....   | 10          | .30            | .60               |            |     | | Ford's Alpha, New, .....  | 10          | .30            | .60               |            |     | | Acme, .....   | 05          | .20            | .40               |            |     | | Mayflower, New, .....   | 10          | .30            | .60               |            |     | | Red Currant .....   | 05          | .25            | .50               |            |     | | Paragon .....   | 05          | .25            | .50               |            |     | | Canada Victor .....   | 05          | .15            | .30               |            |     | | Conqueror .....   | 05          | .15            | .30               |            |     | | Livingston's Perfection, .....  | 05          | .30            | .60               |            |     | | Trophy .....  | 05          | .15            | .30               |            |     | | Island Beauty .....   | 05          | .30            | .60               |            |     | | Green Gage .....  | 05          | .15            | .30               |            |     | | Golden Rural, New, .....  | 05          | .20            | .40               |            |     | | Saint Paul, (New) .....   | 10          | .30            | .60               |            |     | | Above Varieties Mixed .....   | 05          | 20             | 40                |            |     | | <b>Turnip.</b>  |             |                |                   |            |     | | New White Egg .....   | 05          | 10             | 1.25              |            |     | | Early White Dutch .....   | 05          | 10             | .80               |            |     | | Purple Top Strap Leaf .....   | 05          | 10             | .80               |            |     | | Long White Cow Horn .....   | 05          | 10             | .80               |            |     | | Large White Globe .....   | 05          | 10             | .80               |            |     | | Yellow Aberdeen .....   | 05          | 10             | .80               |            |     | | Yellow Globe .....  | 05          | 10             | .80               |            |     | | Golden Ball .....   | 05          | 10             | .80               |            |     | | Above Varieties Mixed .....   | 05          | 10             | .80               |            |     | | <b>Rutabaga, or Swede Turnip.</b>   |             |                |                   |            |     | | White French, or Sw't German .....  | 05          | 10             | 80                |            |     | | Skirving's Purple Top Yellow .....  | 05          | 10             | 80                |            |     | | Brill's American Yellow .....   | 05          | 10             | 80                |            |     | | Shamrock Swede, Yellow .....  | 05          | 10             | 80                |            |     | | Above Varieties Mixed .....   | 05          | 10             | 80                |            |     | | <b>Herb Seeds.</b>  | <i>Pkt.</i> | <i>Oz.</i>     | <i>Pkt.</i>       | <i>Oz.</i> |     | | Coriander .....   | 05          | .20            | Dill .....        | 05         | .25 | | Horehound .....   | 10          | 50             | Sage .....        | 05         | 20  | | Summer Savory .....   | 10          | 30             | Saffron .....     | 05         | 25  | | Sweet Marjoram .....  | 10          | 40             | Lavender .....    | 10         | 30  | | Caraway .....   | 05          | 15             | Sweet Basil ..... | 10         | 40  | | Sweet Fennel .....  | 05          | 20             | Thyme .....       | 10         | 50  | | Send orders to <b>Isaac F. Tillinghast,</b><br><b>La Plume, Lack'a Co., Pa.</b> |             |                |                   |            |     | |



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New, being imported by us from the largest floral establishments in France and Germany. We have no doubt they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

### ANNUALS.

<b>Abronia.</b> Half-hardy trailing plants.	Pkt.
1 Arenaria, pure waxy yellow flowers	10
2 Umbellata, rosy lilac, white eye	5
<b>Adonis.</b> Known as Pheasant's eye.	
3 Æstivalis, brilliant scarlet	5
4 Autumnalis, flowers dark blood-red	5
<b>Ageratum.</b> Splendid for summer and winter.	
5 Improved Dwarf, white and blue mixed	5
6 Mexicanum, blue, nice for bouquets	5
7 Album, same as above only white	5
<b>Alyssum.</b> Beautiful for beds, pots, or bouquets.	
8 Sweet, small white, very fragrant	5
<b>Amaranthus.</b> A fine hardy foliage plant.	
9 Bicolor, leaves crimson and green	5
10 Caudatus. "Love lies bleeding."	5
11 Cruentus. "Prince's Feather" erect blood-red	5
12 Salicifolius. Pyramidal; brilliant; beautiful	5
13 Tricolor. "Joseph's Coat" red and green	5
14 Pyramdalls, beautiful large variety	5
15 Above six varieties mixed	5
<b>Antirrhinum.</b> ( <i>Snapdragon.</i> )	
16 Atrosanguinea, dark blood-red	5
17 Carvophylloides, irregularly striped	5
18 Dehila, fine carmine, white throat	5
19 Fleefly, orange and scarlet, white throat	5
20 Galathe, large crimson, white throat	5
21 Luteum, clear yellow, fine	5
22 Majus, Flore-Albo, pure white	5
23 Papillonaceum, blood-red, white throat	5
24 Striatum, striped, bright colors mixed	5
25 Tom Thumb, very dwarf mixed colors	5
26 Fine Mixture of the above	5
<b>Angelonia.</b> Very pretty decorative plant.	
27 Grandiflora, violet blue, sweet scented	10
<b>Asperula.</b> Hardy, perfuse bloomer	
28 Odorata, white fragrant flowers	10
<b>Aster.</b> Very popular and effective favorites.	
29 Tall Chrysanthemum-flowered	5
30 Diamond, dwarf imbricated Pompon	10
31 Dwarf Pyramidal Bouquet, very early	10
32 Glant Emperor, very large, handsome	10
33 Hedge-hog or Needle, long quilled petals	10
34 Imbrique Pompon, twelve colors mixed	10
35 La Superbe, pæony-flowered perfection	10
36 New Chrysanthemum-flowered, dwarf	10
37 New Pæony-flowered Globe, very large	10
38 New Schiller, very fine late dwarf	10
39 Pyramidal-flowered German, branishing	10
40 Shakespeare, beautiful, large-flowering	10
41 Truffant's Pæony-flowered, perfection mixed	10

42 Victoria, globe imbricated, mixed colors	10
43 Washington, new, the largest of all	10
44 Quilled German, twenty varieties mixed	5
45 Reid's Improved Quilled, twelve sorts mixed	5
46 Globe Flowered German, twelve colors mixed	5
47 Dwarf German, twelve varieties mixed	5
48 Fine Mixture of all the above Asters	10
<b>Balsam.</b> ( <i>Impatiens.</i> ) ( <i>Lady Slipper.</i> )	
50 Camellia-flowered, mixed, very double	10
51 Camellia-flowered, white, beautiful	10
52 Camellia-flowered, spotted, German dou, mixed	10
53 Carnation, fine double striped	10
54 Double French, scarlet spotted, very fine	10
55 Fine Mixture of all the above	10
<b>Bellis Perennis.</b> Double Daisy	
56 Flore Pleno, white and rose mixed	10
<b>Browallia.</b> Handsome profuse bloomer.	
57 Elata Alba, white	5
58 Elata Grandiflora, fine blue	4
<b>Cacalia.</b> Hardy annual, fine for cut-flowers.	
59 Coccinea, scarlet	5
60 Coccinea Flore Luteo, yellow	5
<b>Calendula.</b> (Cape Marigold.)	
61 Fine Mixed, colors	5
<b>Campanula.</b> Hardy free-flowering annual.	
62 Speculum, rose, white and blue mixed	5
<b>Candytuft.</b> ( <i>Iberis.</i> ) Hardy annual.	
63 New Dwarf White,	10
64 Sweet-scented, white, purple, lilac, etc. mixed	5
<b>Canna.</b> ( <i>Indian Shot.</i> ) Beautiful foliage,	
65 Dwarf and Tall, mixed colors	5
<b>Celosia.</b> ( <i>Cock's Comb.</i> ) Showy bedding plant,	
66 Dwarf Feathered, splendid scarlet	5
67 Cristata, best tall varieties mixed	5
68 Cristata, best dwarf varieties mixed	5
<b>Centaurea.</b> ( <i>Dusty Miller.</i> ) Elegant foliage.	
69 Gymnocarpa, white leaved	5
70 Suaveoleus, (Sweet Sultan.) Yellow	5
71 Cyanus, (Blue Bottle.) Mixed	5
<b>Clarkia.</b> Suffers in hot dry weather.	
72 Double, rich magenta colors	5
73 Pulchella, best colors mixed	5
<b>Convolvulus.</b> (Minor.) Dwarf trailing plants.	
74 White, violet, lilac and purple mixed	5
<b>Datura.</b> Blooms first season, roots may be kept over winter same as Dahlias.	
75 Fastuosa, Alba Pleno, fine double white	5
76 Humilis, Flava Flore-Pleno, double yellow	5
77 Wrightii, large tinted white, sweet-scented	5
<b>Delphinium.</b> (Annual Larkspur.) Sow early.	
78 Formosum, finest blue flower known	5
79 Dwarf German Rocket, double mixed	5
80 Tall German Rocket, double mixed	5
81 Imperial Branching, double mixed	5
82 Hybrid, Extra fine mixed varieties	5
<b>Dianthus.</b> Magnificent and constant bloomers	
83 Chinensis, double extra fine mixed	10
84 Chinensis, Flore-Alba Pleno, double white	10
85 Heddewigil, very large, single finely marbled	10
86 Diadematus, flore-pleno, Diadem Pink	10
87 Heddewigil, flore-pleno, fine double	10
88 Imperialis, purple striped, fine	10
89 Imperialis Atro-sanguineus, double blood-red	10
90 Imperialis Alba-Pleno, fine double white	10
91 Imperialis Flore-Pleno, fine double mixed	10



## SEED-TIME AND HARVEST.

92	Laciniatus, large single fringed, mixed	10	<b>Pyrethrum.</b> ( <i>Feverfew.</i> )	
93	Laciniatus Flore-Pleno, very large double, mixed	10	142 Aureum, fine foliage plant for borders	10
<b>Helianthus.</b> (Sunflower.)			<b>Ricinus.</b> Stately, tropical looking plant	
94	Callornicus, very large double	5	143 Sanguineus, blood-red stalks, ten feet high	5
95	Globosus Fistulosus, large double orange	5	144 Borbonlensis, magnificent, fifteen feet high	10
96	Mammoth Russian, the largest, single	5	145 Communis, (Castor Oil Bean.) six feet	5
<b>Lobelia.</b> Exceedingly beautiful,			<b>Salvia.</b> ( <i>Flowering Sage.</i> )	
97	Alba-Pura Compacta, new white	5	146 Splendens, scarlet, fine	5
98	Erlus, deep blue, six inches high	5	147 Coccinea, elegant bedding plant	5
99	Crystal Palace, deep blue, with white eye	5	<b>Scabiosa.</b> ( <i>Mourning Bride.</i> )	
100	Gracilis Erecta, bicolor, compact	5	148 Major, large varieties, mixed	5
101	Hybrid Grandiflora, superba	5	149 Minor, dwarf double mixed	5
102	Fine Mixture of above varieties	5	<b>Sensitive Plant.</b> ( <i>Mimosa.</i> )	
<b>Mesembrianthemum.</b>			150 Pudica, leaves close when touched	5
103	Crystallinum, (Ice Plant.) white	5	<b>Stocks, Ten Weeks.</b> ( <i>Mathiola annua.</i> )	
<b>Mignonette.</b> (Reseda.)			151 Emperor, or Perpetual, free blooming	10
104	New Hybrid Spyral, finest dwarf	5	152 New German, large flowering mixed	10
105	Odorata, sweet-scented, (25 cts. per oz.)	5	<b>Tropaeolum.</b> Popular bedding plants.	
106	New White, very large and showy	5	153 Dwarf varieties mixed	5
107	Ameliorata grandiflora, large flowering	5	<b>Verbena.</b> A well-known and universal favorite.	
108	Pyramidal, large-flowering sweet	5	154 Cœrula, dark blue	10
<b>Minulus.</b> Fine for small beds windows, etc.			155 Defiance, brilliant scarlet	10
109	Cardinalis, fine scarlet	10	156 Italian Striped, large and fine	10
110	Hybridus Tigrinus, beautifully spotted	10	157 Snow White, extra select	10
111	Moschatus, (Musk Plant.)	10	158 Hybrida, best varieties mixed	10
112	Tillingii, new and elegant	10	<b>Vinca.</b> ( <i>Periwinkle.</i> )	
<b>Marvel of Peru.</b> ( <i>Mirabilis.</i> )			159 Resea, from East Indies	5
113	Hybrid, fine mixed	5	160 Rosea Alba, white crimson eye	5
<b>Myosotis.</b> Perennial, bloom first season			161 Alba, pure white, fine for florists use	5
114	Forget-me-not, common	5	162 Mixed colors	5
115	Alpes'ris, rose and white mixed	6	<b>Zinnia.</b> The finest varieties in cultivation	
116	Elegantissima, mixed colors	5	163 Elegans Alba, pure white, double	5
<b>Nemophila.</b>			164 Elegans, extra double, mixed	5
117	Insignis, blue, and maculata, white, mixed	5	165 Dwarf, double, mixed	5
<b>Pansy.</b> (Heartsease.)			<b>Green House and Florists' Flowers.</b>	
118	Emperor William, large ultramarine blue	10	All these seeds are delicate and must be treated	
119	Faust, or King of the Blacks, coal black	10	with great care, and several sowings ought to be	
120	New Striped, very showy	10	made at different times. Cover the seeds lightly	
121	Perfection, extra large mixed colors	5	with fine soil.	
122	Pure White, beautiful and true	10	<b>Abutilon.</b>	Pkt.
123	Azure Blue, large and extra fine	10	170 New varieties, mixed colors	20
124	Pure Yellow, generally true to color	10	<b>Alsophylla.</b>	
125	Extra large-flowering, mixed colors	5	171 Australls, handsome Tree Fern	10
<b>Peas, Sweet, plants of delightful fragrance.</b>			<b>Balsam.</b>	
126	Best colors mixed, (Per oz. 15 cts.)	5	172 Perfection, extra double white	10
<b>Petunia.</b> Bloom early and profuse,			<b>Begonia.</b>	
127	Blotched and Striped, showy, mixed colors	5	173 Tuber-rooted, mixed colors, fine for pots	20
128	Countess of Ellsmere, dark rose, white throat	10	<b>Calceolaria Hybrida.</b>	
129	Grandiflora Alba, largest white	10	174 Best colors, fine for conservatory	20
130	Hybrid, extra fine mixed colors	5	<b>Carnation Remontant.</b>	
131	Hybrid double, extra choice	25	175 Best German Seed,	20
<b>Phlox Drummondii.</b> Most brilliant.			176 Double Mixed Piccotee,	20
132	Purest White, fine for cuttings	10	<b>Centaurea.</b>	
133	Grandiflora, large flowering mixed	5	177 Gymnocarpa, white leaved bedding plant	10
134	Leopoldi, rose with white eye, fine	10	<b>Cineraria Hybrida.</b>	
135	Radowltzil, deep rose and white	10	178 Macitima,	10
136	Scarlet Meteor, very brilliant	10	179 Candidissima,	10
137	Finest varieties mixed,	10	<b>Clematis.</b> Beautiful ornamental climber.	
<b>Poppy.</b> ( <i>Papaver.</i> ) Free growing, brilliant			180 White-flowering perennial, thirty feet high	10
138	Carnation, double, mixed	5	181 Mixed varieties	10
139	Finest single varieties, mixed	5	<b>Clianthus Dampieri.</b>	
<b>Portulaca.</b> Splendid for small beds.			182 Cholcest mixed	20
140	Grandiflora, double, mixed	10	<b>Cobœa.</b>	
141	Single, white, rose, scarlet, yellow, mixed	5	183 Scandens, best climber for house	10



<b>Coleus.</b>	
184 In variety; newest varieties, mixed	20
<b>Cyclamen Persicum.</b>	
185 White, red and pink, mixed	15
<b>Cyperus.</b>	
186 Variegates, water plant, grows in pots	15
<b>Ferns.</b>	
187 Different varieties, mixed	15
<b>Geranium.</b>	
188 Zonale and Inquinans, mixed	16
<b>Glaucium.</b>	
189 Luteum, fine white foliage plant	5
<b>Gloxinia Hybrida.</b>	
190 Choice colors, mixed	15
<b>Heliotrope.</b>	
191 Sweet, mixed	10
<b>Ice Plant.</b>	
192 Mesembrianthemum, tricolor mixed	10
<b>Lantana.</b>	
193 Mixed colors	10
<b>Mignonette.</b>	
194 (104) New Spiral, best for pots	10
<b>Passion Flower.</b>	
195 Passiflora, mixed	10
<b>Petunia.</b>	
196 New Double Fringed, choicest	25
<b>Primula Sinensis.</b> ( <i>Chinese Primrose.</i> )	
197 Alba-Fimbriata, single, large, white	20
198 Rosea Fimbriata, light rose, fine	20
199 Atrocarinea Splendens, deep red	20
200 Above varieties mixed	20
<b>Yucca Filamentosa.</b> ( <i>Adams' Needle</i> )	
201 Finest California	5
<b>ORNAMENTAL CLIMBERS.</b>	
<b>Cobœa Scandens.</b> Climbing annual.	
205 Finest French seed	10
<b>Convolvulus.</b> ( <i>Morning Glory.</i> )	
206 Major, best mixed colors (20 cents per oz.)	5
<b>Courds.</b> ( <i>Ornamental.</i> )	
207 Seeds from many curious varieties mixed	5
<b>Ipomœa.</b> Magnificent for baskets, vases, etc.	
Coccolnea, star, small scarlet flowers	5
209 Grandiflora Superba, sky blue with white border	5
210 Limbata Elegantissima, large and fine	5
211 Quamoclit, (Cypress Vine) mixed	5
<b>Loasa.</b> Flowers are very curious and handsome	
212 Vulcanica, very fine new variety	5
<b>Luffa.</b> ( <i>Dish-rag Plant.</i> )	
213 Amara	5
<b>Maurandya.</b> Graceful climber, ten feet.	
214 White, rose and violet, mixed	10
<b>Peas, Flowering.</b>	
215 Finest colors mixed	5
<b>Phaseolus.</b> ( <i>Scarlet-runner.</i> )	
216 Mixed colors	5
<b>Thunbergia.</b> Beautiful half-hardy annual.	
217 Alata, yellow with dark eye	10
218 Aurantiaca, bright orange, dark eye	10
219 Bakeri, pure white, very fine	10
<b>Tropæolum.</b>	
220 Majus, finest mixed colors	5
221 Peregrinum, ( <i>Canary Bird Flower</i> ) fine yellow	10
<b>Everlasting Flowers and Grasses.</b>	
No collection of flowers is complete without a few	

*Immortelles* or Everlastings. They will brighten our rooms through the dreary winter when the Frost King has claimed our other favorites; and mingled with dry grasses and moss they make good substitutes for their more delicate sisters which have faded and gone. The flowers should be picked as soon as they expand, or a little before, and hung up in small bunches so that the stems will dry straight.

## FLOWERS.

<b>Acroc'inium.</b>	
225 Roseum, bright rose color	5
226 Album, pure white	5
227 Mixed colors	5
<b>Ammobium.</b>	
228 Alatum, beautiful star-like white	5
<b>Gomphrena.</b> ( <i>Globe Amaranth.</i> )	
229 Pure White,	5
230 Bright Orange	5
231 Dark purplish-crimson	5
232 Striped and mixed colors	5
<b>Helichrysum.</b>	
233 Monstrosum, large, double mixed	5
<b>Helipterum.</b>	
234 Sanfordii, beautiful bright yellow	5
<b>Rodanthe.</b>	
235 Finest mixed varieties	5
<b>Xeranthemum.</b> Free blooming annuals 1 foot.	
236 Finest double white	5
237 Double, mixed colors	5

## GRASSES.

<b>Agrostis.</b> Elegant, fine and feathery	
238 Pulchella	5
239 Nebulosa	5
<b>Briza.</b> ( <i>Quaking Grass</i> ) very hardy	
240 Maxima, very elegant, one foot high	5
241 Gracellis	5
242 Orientalis	5
<b>Coix Lachyma.</b>	
243 Job's Tears, broad corn-like leaves	5
<b>Erianthus.</b>	
244 Ravennæ, resembles Pampas Grass	5
<b>Eulalia.</b>	
245 Japonica, new very ornamental	10
<b>Gynerium.</b> ( <i>Pampas Grass.</i> )	
246 Argenteum, makes elegant plumes	5
<b>Lagurus.</b> ( <i>Haretail Grass.</i> )	
247 Ovatus, dwarf, showy heads	5
<b>Stipa Pennata.</b>	
248 Feather Grass	5
<b>Squirrel Tail Grass.</b>	
249 Hordeum Jubatum	5

## CHOICE PERENNIALS.

These seeds produce plants which are hardy, will survive over winters and flower the second season, some early in spring, others in summer and autumn.

<b>Alyssum Saxatile.</b>	
250 Golden Yellow, ten inches high	5
<b>Aquilegia.</b> A highly interesting class.	
251 Twelve best varieties mixed	5
<b>Campanula.</b> Hardy free-blooming plants.	
252 Medium, (Canterbury Bell) large; blue	5
253 Medium, double, blue	5
254 Medium, double, white	5



# SEED-TIME AND HARVEST.

- Carnation.** (*Dianthus Caryophyllus*.)  
255 Grenadin, brilliant red 20
- Delphinium.**  
256 Formosum, brilliant blue, white eye 5
- Digitalis.** (Foxglove) useful border plants.  
257 Best varieties mixed 5
- Hollyhock.** (*Althea*.)  
258 Double, very fine, mixed colors 10
- Linum.** Fine foliage, beautiful flowers.  
259 Perenne, blue and white 5
- Oenothera.** [Perennial Evening Primrose,]  
260 Finest mixed colors 5
- Papaver.** [Perennial Poppy.]  
261 Bracteatum, scarlet, three feet long 5  
262 Croceum, large orange flowers 5
- Pentstemon.** Popular bedding plants.  
263 Best varieties mixed 10
- Phlox, Perennial.**  
264 Fine mixed colors 5
- Primula Elatior.** [Modern Cowslip.]  
265 Splendid mixed 5
- Pink.** Related to Carnation, but smaller  
266 Best double mixed colors, German seed 10
- Picotee.** The finest of the Carnation family.  
267 Double, finest German mixed 20
- Stock, Brompton.**  
268 White, violet and carmine, mixed 10
- Sweet William.** Hardy and easily grown.  
269 Perfection, best colors mixed 10
- Wall Flower.** Very fragrant and desirable.  
270 Bright Yellow 5  
271 Fine mixed colors 5  
272 Elegant Double, mixed 10
- "Wild Garden" Flower Seeds.**  
273 Over 200 choice varieties in one package 5

## Trial Collections.

To meet a popular demand and at the same time to give an inducement for every one who has a garden to order a trial package, we have put up some special collections at greatly reduced rates. These packages are made up in advance and no changes whatever can be made in them.

**Collection No. 1** contains Seventeen Packets of Vegetable Seeds, worth at list price \$1.25, one package each as follows:

1. Amber Cream Sweet Corn . . . . . 10 cts.
2. Crystal White Wax Bean . . . . . 10
3. Cabbage, 18 varieties mixed . . . . . 10
4. Beet, mixed table varieties . . . . . 5
5. Carrot, best varieties mixed, . . . . . 5
6. Cucumbers, " " . . . . . 5
7. Cauliflower, " " . . . . . 20
8. Turnip, " " . . . . . 5
9. Rutabaga, " " . . . . . 5
10. Onion, " " . . . . . 5
11. Lettuce, " " . . . . . 5
12. Radish, best early varieties mixed, . . . . . 5
13. Tomato, best " " . . . . . 5
14. Musk Melon, best " " . . . . . 5
15. Water Melon, " " " . . . . . 5
16. Spinach, round leaved, . . . . . 5
17. New Golden Dawn Mango, . . . . . 15

Collection No. 1, as above, 17 pkts., worth \$1.25, will be mailed to any address on receipt of 75 cents.

**Collection No. 2** consists of Ten Packets of choice annual Flower Seeds of our selection, among which will be Asters, Balsam, Pansy and Verbena, and a packet of "Wild Garden Flower Seeds." This collection of 10 packets by mail for 25 cents.

**Collection No. 3.** For \$1.00 we will send Collections No. 1 and 2, and one year's subscription to SEED-TIME AND HARVEST. This we call Collection No. 3, and we expect Ten Thousand Orders for it before April 1st.

**Collection No. 4.** Those who are already subscribers to SEED-TIME AND HARVEST or who do not wish to include a subscription with seed order, may, by sending \$1.00, select seeds in packets from our Veg table or Flower Lists to the amount of \$1.25.

## Garden Implements.

The following garden implements will be sent from here or from the manufactory at Factory Prices:

Ruhlman's Wheel Hoe . . . . .	\$ 5.50
The New York Seed Drill . . . . .	12 00
Matthews' Seed Drill . . . . .	12.00
Matthews' Combined Drill and Cultivator . . . . .	15.00

### PLANET JR. IMPLEMENTS.

Combined Drill, Hoe and Cultivator, . . . . .	15.00
No. 2 Drill, . . . . .	12.00
Double Wheel Hoe, Cultivator and Plow, . . . . .	8.00
Single Wheel Hoe, . . . . .	6.00
Firefly Plow, . . . . .	4.00
Combined Horse Hoe and Cultivator, . . . . .	12.00

Miscellaneous.	Pkt.	Oz.	Lb.
Osage Orange Seeds . . . . .	05	10	75
Apple Seeds . . . . .	05	10	50
Tree Seeds, prices on application.			
Evergreen Broom Corn . . . . .	05	10	60
Early Amber Sugar Cane . . . . .	05	10	60
Rural Branching Sorghum . . . . .	05	10	60
Mammoth Russian Sunflower . . . . .	05	40	
German Millet, [bu. on application,]	05	50	
Pearl Millet . . . . .	05	10	60
Potato Seeds from Wall's Orange	10		

**NOTICE.** Please do not order small quantities of varieties not named in our list. Should you, however want any considerable quantity of anything offered in any seedsman's catalogue, we can nearly always obtain it to advantage and will be pleased to quote prices on application. In case we cannot supply you we will endeavor to tell you where you can get what you want to best advantage.

## Seed Potatoes.

The pound prices include postage and free delivery by mail. In larger quantities they will be delivered to express or freight agents here to be transported at the expense of the purchaser.

	Lb.	Peck.	Bush.	Bbl.
Early Gem . . . . .	75			
Boston Market . . . . .	75			
Rural Blush . . . . .	75			
Hall's Early Peachblow . . . . .	75			
Rochester Favorite . . . . .	75			
Vick's Prize . . . . .	75			
Chicago Market . . . . .	75			
Baker's Imperial . . . . .	75			
Wells' Seedling . . . . .	75			
Jordan's Prolific . . . . .	75			
New Champion . . . . .	75			
Early Sunrise . . . . .	75			
Red Elephant . . . . .	75			
Rose's New Seedling . . . . .	50	1.00		
Brownell's Best . . . . .	.50	1.00	3.00	
Early Telephone . . . . .	50	1.00	3.00	
White Star . . . . .	.50	75	2.50	
Cook's Superb . . . . .	50	75	2.00	5.00
White Whipple . . . . .	.50	75	2.00	5.00
Clark's No. 1 . . . . .	.50	75	2.00	5.00
The "Belle," . . . . .	.50	75	2.00	5.00
White Elephant, . . . . .	.50	75	1.50	4.00
E. Beauty of Hebron . . . . .	50	75	1.50	4.00
Pride of America . . . . .	50	75	1.50	4.00
<b>Wall's Orange</b> . . . . .	50	2.00	6.00	15.00

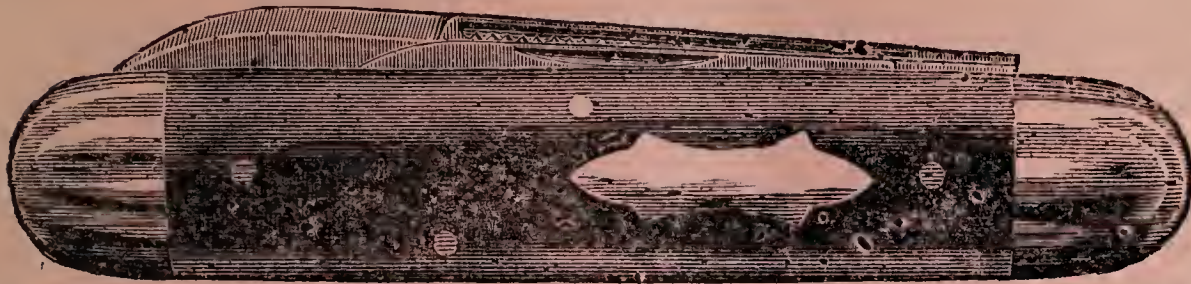
**Special Offer.** Four pounds from the above list, your selection, one or more varieties, will be sent by mail for \$2.00; or by express for \$1.00. You may take four pounds of any one variety, or one lb. each of any four, or two each of two, &c.

Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.



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This cut represents a knife made especially for us in large quantities, and we believe it is the **BEST TWO BLADE KNIFE IN THE WORLD** for general purposes. The blades are made of the finest steel. One of them is

extra strong for heavy work. The handles are lined with brass, and have a handsome German silver name-plate of beautiful pattern. Both ends have round corners, and are finished alike with German silver, highly polished, giving them a remarkably fine and attractive appearance.

These knives give better satisfaction, are stronger, handsomer and better made than knives sold in most stores at \$1.50 each, and it is only by buying them in great quantities that we are enabled to offer them at so low a price.

Remember, every knife is warranted strong and perfect, made of best steel, with round corners at both ends, so as not to wear the pockets.

**Given** as a premium for five subscribers to Farm and Fireside, at 50 cts. each.

**Price**, including one year's subscription to Farm and Fireside, \$1.

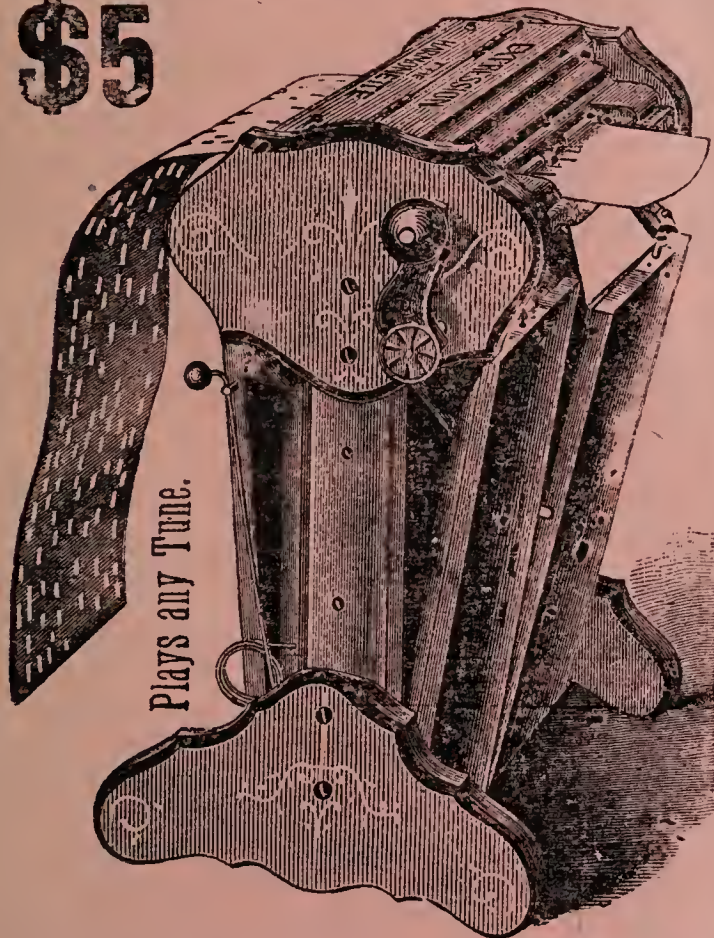
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\$5



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## EGGS!

BROWN LECHORNS,  
13 for \$1.00, by Express only.  
I. F. Tillinghast,  
La Plume, Pa.



# Darnell's Patent Furrower and Marker.

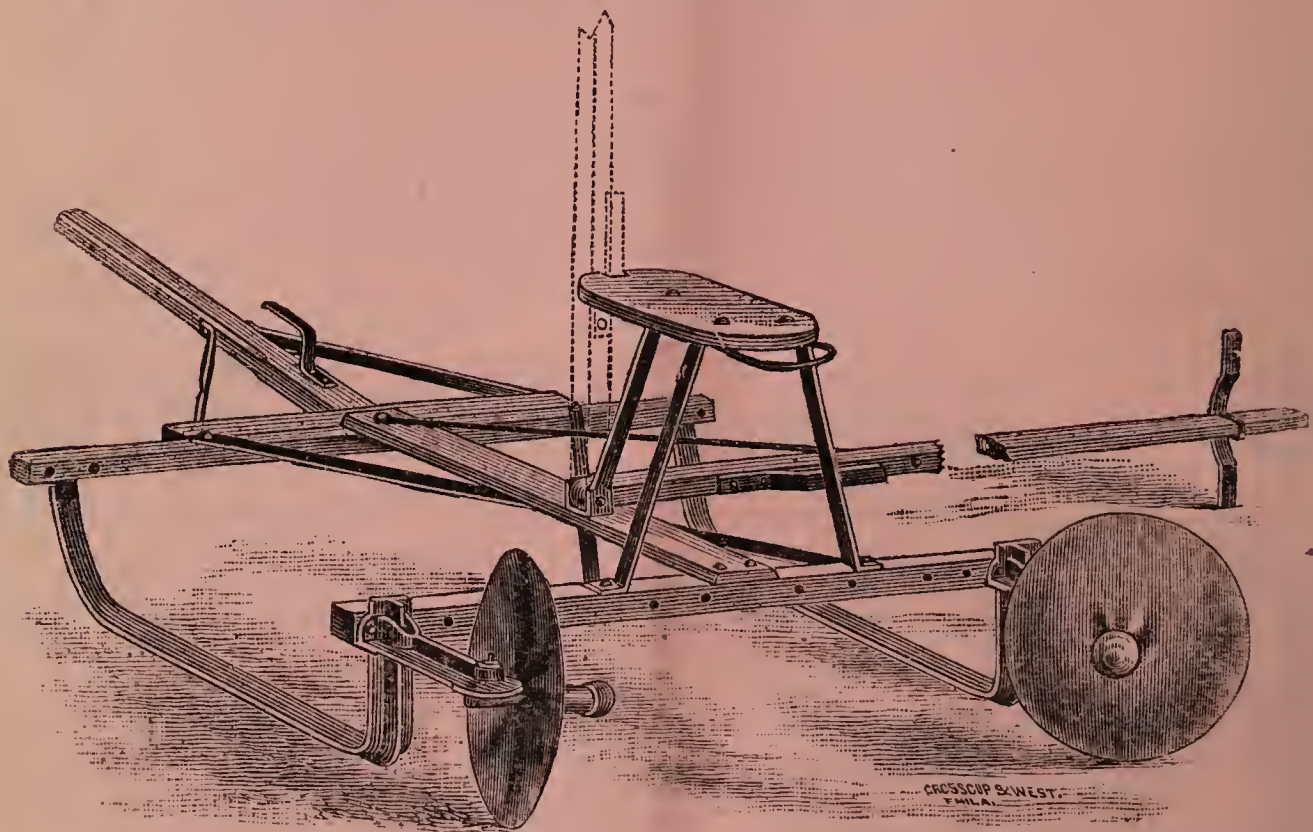
In offering this Implement to Farmers and Gardeners, we feel assured we have in it the best device for marking out or covering rows, etc., that has yet been produced, for the following reasons, viz:

*It will run steadier, open a better row either in hard or soft ground than any other marker in use. It is not choked out by manure, trash or clogs, and leaves the earth in the bottom of the furrow in a pulverized condition, thus making an excellent seed bed.*

The runners are composed of wrought T angle iron, the disks or markers (fifteen inches in diameter) are of cast iron, with chilled hub and steel axle, which add greatly to its durability. Its peculiar construction, with broad runners to prevent the sled from sinking into the soft earth, as well as to steady its motion, and the revolving disks, which cut a straight and clean furrow, renders the draft very much less than that of the ordinary marking sled. The runners and markers are adjustable, and will mark any width desired, from two and a half to five feet, and from a mere mark to six inches in depth. Width of furrow from two to five inches as desired. The gauge or guide pole is so constructed, as to adapt itself to all the inequalities of the ground.

These Implements have been in use in various sections of New Jersey, during the past three years, and have given universal satisfaction.

We give below a few testimonials from parties who have used them:



West Hebron, N. Y., Stock Farm, May 5th, 1882.

I have used the Darnell's Patent Furrower ordered of you some days ago. This afternoon I finished a field of potatoes with it. It worked splendidly, although the ground was quite stony. It far exceeds my expectations. I had no difficulty in covering my rows with it, at just the required depth of four inches. If the merits of this cheap implement were known to the potato growers alone, your sales would be immense.

Yours truly,  
EDWARD L. COY,  
Prest. Washington Co., N. Y., Ag. Soc.

Pleasant Valley Small Fruit Nursery,  
Moorestown, N. J., 1st Mo., 17th, 1883.

Having used the Darnell's Patent Furrower and Marker during last season, I take the pleasure in recommending it to all Farmers and Gardeners. It opens a clear, clean furrow (two at a time,) and runs steadily, and is comparatively light work for a team. By reversing the disks, placing them hub out, and bolting the arms in the middle of back cross piece, as in small cut, you can throw a double furrow, or cover rows perfectly.

The implement is thoroughly well made, and will last for years. It is no humbug.

Respectfully,  
JOHN S. COLLINS.

From what I have heard of its work, I do not think there is any implement made for opening and covering rows, that will do its work more satisfactorily than Darnell's Patent Furrower and Marker. It is easily adjusted, does not require a machinist to explain it, well made and sold at a moderate price.

I. F. TILLINGHAST, Publisher of SEED-TIME AND HARVEST

**Send for Circular.**

**H. W. DOUGHTON, Manufacturer,**  
*East Moorestown, Burlington Co., N. J.*



1883.



Seed-Time and Harvest.

MARCH.





Devoted to Rural Affairs.

PUBLISHED MONTHLY BY  
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THIS PRICE INCLUDES FREIGHT, CARPENTER S WORK, AND HANGING THE SCALES IN SATISFACTORY WEIGHING ORDER.

Where we have no Agents the Scales will be sent on Trial, Freight paid, and a **SPECIAL DEDUCTION MADE.**

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Size of platform, 8 feet by 13 feet.  
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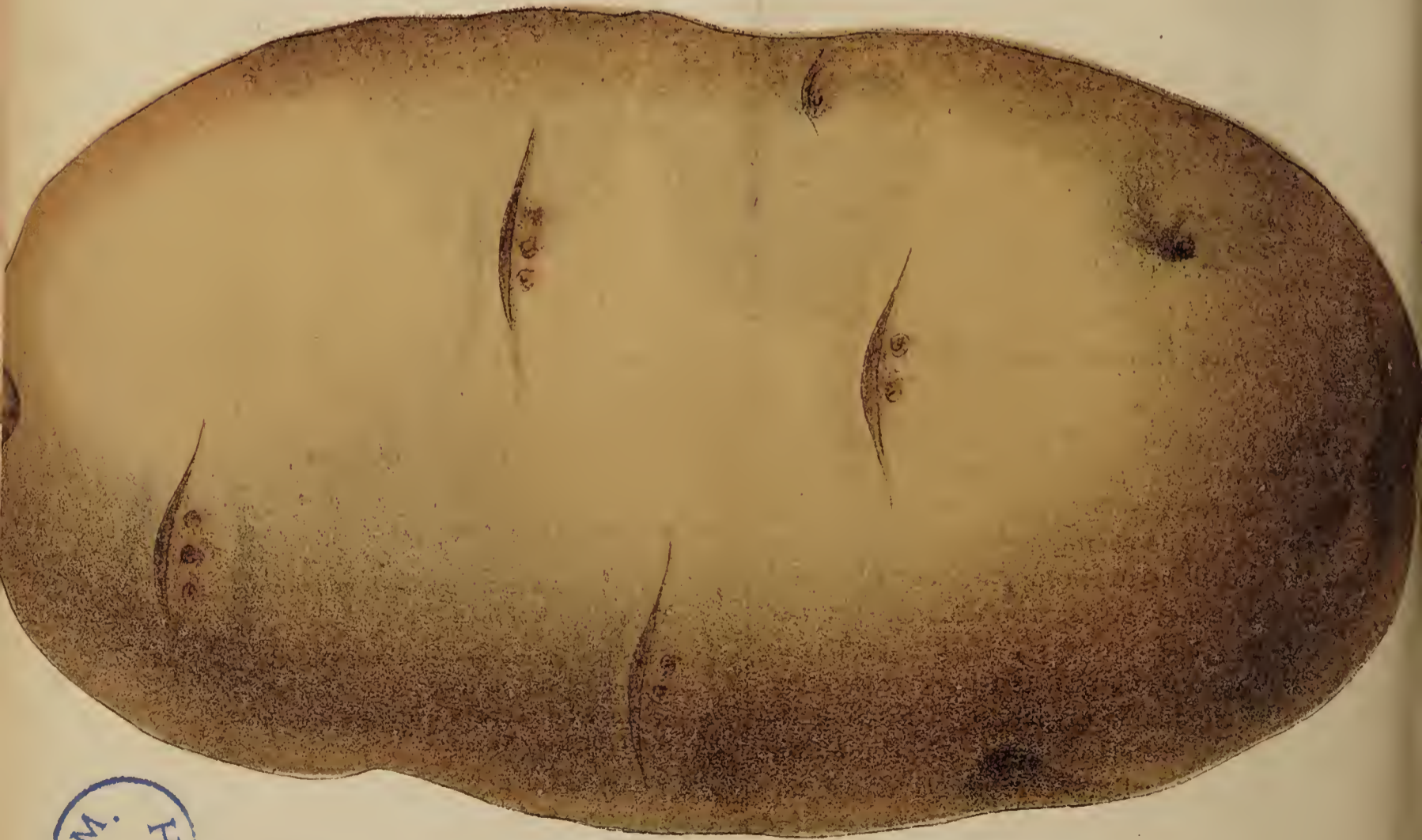








WALL'S ORANGE.



THE BELLE.



Introduced by ISAAC F. TILLINGHAST, La Plume, Lackawanna Co., Pa.



# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

— FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT. —

VOL. 4.

MARCH, 1883.

NO. 3

STAYMAN'S EARLY.



Stayman's Blackberry.

THE above cut is said to be an exact representation of a new blackberry offered this year for the first time by "Purdy, of Palmyra," who seems to be determined not to be out-done in procuring early berries. "It is a rather large, roundish-oblong berry of the best quality. Plants propagate either by suckers, root cuttings or tip layers, like the black raspberry." Such is the originator's description of it. He claims for it great hardiness, productiveness and earliness. Mr. Purdy says it is the earliest blackberry grown. As all berries originating in the west have generally proved a success the probabilities for its having a great run are in its favor as it is a Kansas production, having been originated by Dr.

Stayman the celebrated fruit grower of Leavenworth, Kansas.

## THE LIGHTS OF HOME.

In many a village window burn  
The evening lamps.  
They shine amid the dews and damps,  
Those lights of home!

Afar the wanderer sees them glow,  
Now night is near;  
They gild his path with radiance clear,  
Sweet lights of home.

Ye lode-stars that forever draw  
The weary heart,  
In stranger lands or crowded mart;  
O! lights of home.

When my brief day of life is o'er,  
Then may I see  
Shine from the heavenly house for me,  
Dear lights of home. —H. J.



### His Pa Goes Calling.

"SAY, you are getting too all-fired smart," said a grocery man to the bad boy as he pushed him into a corner by a molasses barrel, and took him by the neck and choked him so his eyes stuck out. "You have driven away several of my best customers, and now, confound you, I am going to have your life," and he took up a cheese knife and began to sharpen it on his boot.

"What's the—gurgle—matter," asked the choking boy, as the grocery man's fingers let up on his throat a little, so he could speak. "I haint done nothin'."

"Didn't you hang up that dead gray tom cat by the heels, in front of my store, with the rabbits I had for sale? I didn't notice it until the minister called me out in front of the store, and pointing to the rabbits, asked what good fat cats were selling for. By crimus, this thing has got to stop. You have got to move out of this ward, or I will."

The boy got his breath and said it wasn't him that put the cat up there. He said it was the policeman, and he and his chum saw him do it, and he just come in to tell the grocery man about it, and before he could speak he had his neck nearly pulled off. The boy began to cry, and the grocery man told him he was only joking, and gave him a box of sardines, and they made up. Then he asked the boy how his pa put in his New Year's, and the boy sighed and said:

"We had a sad time at our house New Year's. Pa insisted in making calls, and ma and me tried to prevent it, but he said he was of age, and guessed he could make calls if he wanted to, so he looked at the morning paper and got the names of all the places where they were going to receive, and he turned his paper collar, and changed ends with his cuffs, and put some arnica on his handkerchief, and started out. Ma told him not to drink anything, and he said he wouldn't, but he did. He was full the third place he went to. Oh, so full. Some men can get full and not show it, but when he gets full, he gets so full his back teeth and the liquor crowds his eyes out,

and his mouth gets loose and wiggles all over his face, and he laughs all the time, and the perspiration just oozes out of him, and his face gets red, and he walks so wide. Oh, he disgraced us all. At one place he wished the hired girl a Happy New Year twenty times, and hung his hat on her elbow, and tried to put on a rubber hall mat for his overshoes. At another place he walked on a lady's train, and carried away a card basket full of bananas and oranges. Ma wanted my chum and me to follow pa and bring him home, and about dark we found him in the door yard of a house where they have statues in front of the house, and he grabbed me by the arm, and mistook me for another caller, and insisted on introducing me to a marble statue without any clothes on. He said it was a friend of his, and it was a winter picnic. He hung his hat on an evergreen, and put his overcoat on the iron fence, and I was so mortified I almost cried. My chum said if his pa made such a circus of himself he would sand bag him. That gave me an idea, and when we got pa most home I went and got a paper box covered with red paper, so it looked just like a brick, and a bottle of tomato ketchup, and when we got pa up on the steps at home, I hit him with the paper brick, and my chum squirted the ketchup on his head, and we demanded his money, and then he yelled murder, and we lit out, and ma and the minister, who was making a call on her, all the afternoon, they came to the door and pulled pa in. He said he had been attacked by a band of robbers, and they knocked his brains out, but he whipped them, and then ma saw the ketchup brains oozing out of his head, and she screamed, and the minister said, 'Good Heavens, he is murdered,' and just then I came in the back door and they sent me after the doctor, and they put pa on the lounge, and tied up his head with a towel to keep his brains in, and pa began to snore, and when the doctor came in it took them half an hour to wake him, and then he was awful sick to the stummick, and ma asked the doctor if he would live, and the doctor analyzed the ketchup, and smelled of it, and told ma he would be all right if he had a little Worcester sauce to put on with the



ketchup, and when he said pa would pull through, ma looked awful sad. Then pa opened his eyes and saw the minister and said that was one of the robbers that jumped on him, and he wanted to whip the minister, but the doc held pa's arms and ma sat on his legs, and the minister said he had got some other calls to make, and wished ma a happy New Year in the hall, much as fifteen minutes. His Happy New Year to ma is 'most as long as his prayers. Well, we got pa to bed, and when we undressed him we found nine napkins in the bosom of his vest, that he had picked up at the places where he called. He is all right this morning, but says it is the last time he will drink coffee when he makes New Year's calls."—*Peck's Sun*.

### The River.

FAR up on the mountain the river begins—  
 I saw it, a thread in the sun,  
 Then it grew to a brook, and through dell and  
 through nook  
 It dimpled and danced to its fun.  
 A ribbon of silver, it sparkled along  
 Over meadows besprinkled with gold:  
 With a twist and a twirl, and a loop and a curl  
 Through the pastures the rivulet rolled.  
 Then on to the valleys it leaped and it laughed,  
 Till it stronger and stiffer became:  
 On its banks the tall trees rocked their boughs  
 in the breeze,  
 And the lilies were tapers aflame,  
 The children threw pebbles, and shouted with  
 glee  
 At the circles they made in the stream;  
 And the white fisher boat sent so lightly afloat,  
 Drifted off like a sail in a dream.  
 Deep-hearted, the mirror of its baby life past,  
 It toiled for the grinding of corn;  
 It's shores heard the beat of the lumberman's  
 feet;  
 His raft on its current was borne,  
 At inlet and cove where its harbors were fair,  
 Vast cities arose in their pride,  
 And the wealth of their streets came from beau-  
 tiful fleets,  
 Forth launched on its affluent tide.  
 The glorious river swept on to the sea,  
 The sea that engirdles the land;  
 But I saw it begin in a thread I could spin,  
 Like a cobweb of silk, in my hand,  
 And I thought of the river that flows from the  
 throne:  
 Of the love that is deathless and free;  
 Of the grace of its page that shall never in-  
 crease,  
 Christ-given to you and to me.

Far up on the mountain and near to the sky,  
 The cup full of water is seen,  
 That is brimmed till its tide carries benisons wide  
 Where the dales and the meadows are green.  
 Is thy soul like a cup? Let its little be given,  
 Not stinted nor churlish to One  
 Who will fill thee with love, and faithfulness  
 prove,  
 And bless thee in shadow and sun.  
 —Margaret E. Sangster, in *Am. Rural Home*.

### NOTES AND GLEANINGS.

SORGHUM FOR SHEEP.—G. H. Wadsworth at a recent meeting of the Kansas Wool Growers' and Sheep Breeders' Association gave his experience with sorghum for sheep. In the winter of 1881-82 he fed 2,500 sheep on 250 acres of sorghum from November until February, and they did well. In February he sold 500 wethers at 4½ @ 4¼ cents per pound. This last winter he has had 4,500 wethers in one place and 2,300 in another—grade Merinos that will shear seven pounds each—grazing on 350 acres of sorghum, and expects to use in all about 700 acres. He has found that "Kansas Orange" holds its own better than the Early Amber, though he expects to sow 200 acres of the latter this year. He thinks neither the sorghum or its seed are injurious to ewes in lamb, yet he said too much of any kind of feed would injure them if fed without stint. He had threshed the crops from ten acres and obtained 14½ bushels of clear seed per acre.

EARLY IN MAY is unquestionably the best time to set strawberry plants. The most successful growers set them in rows about three feet apart in the row. The runners are all kept off and large hills produced by fall. They are then covered in November and a full crop obtained the following June. A new bed is set each spring and the old one plowed up after fruiting unless plants are wanted when the straw covering is removed and the plants left to run for another year. A large crop of fine young plants are thus produced at small cost.

FLOWERS ARE THE EMBLEMS of innocence and purity, the tokens of affection. We present flowers to those we love in seasons of joy and hours of sorrow, and it is well to learn how to arrange them in the most attractive and expressive forms, or, at least, how to avoid those forms that are really repulsive to persons of good taste. Presents of flowers are always appropriate; they may be choice exotics or the simple rosebud, all are alike acceptable, and almost equally beautiful.





PYRAMIDAL-FLOWERED GERMAN.

### A Chapter on Asters.

OF the best known and most popular of flowers in the gardens of a century ago was the China Aster, a small, white, single, starlike flower, which was sent from China to France where it was popularly called Queen Daisy. It did not, it is said, bear any more resemblance to the Asters of the present day than the little white Mayweed of our meadows does to the Dahlia. So we can see what long continued selection and breeding has brought forth. Instead of becoming common and neglected it has been carefully treated until no class of plants can now rival it for a brilliant autumn display among all our annuals. The ease with which it is grown, and the general



PÆONY-FLOWERED GLOBE ASTER.

success which attends its cultivation even in the hands of a novice, renders it a general favorite. Any good deep, clean, soil which would bring a fair crop of potatoes will give a handsome show, though a little extra care, such as liquid manure and a mulch of straw or litter, will produce larger and more perfect flowers. The plants transplant very readily, hence are generally sown under glass about the first of April and the plants put out when they are wanted a few weeks later. Some of the late varieties which produce large flowers need a little support in the way of staking and tying to prevent them being injured by the wind. Care should be taken that the plants do not become too tall and spindling before transplanting, as such can never again be brought into proper shape. Nothing is gained by planting them too early as the finest flowers are produced late in summer



QUILLED GERMAN ASTER.

after the drouthy season has passed Asters are so very dissimilar in habit, ranging from the little dwarf, scarcely six inches in height, to the stately plant of more than three feet and bearing flowers almost as large as a Pæony, that a few words of description of the different varieties seem necessary to prevent persons purchasing what they do not want.

*Quilled German* grows one-half to two feet in height. The flowers are double and the petals have the appearance of quills or tubes. They are extensively grown for exhibition purposes. No class of Asters contains so many shades of color as this, and a very correct and pleasing idea of the relation and harmony of colors can be gained by studying them.



*New Schiller.*—A late, dwarf bouquet Aster of peculiar habit and great beauty. It grows about fifteen inches in height and produces a great quantity of bloom and a great variety of colors. The leaves are all at the base of the plant and are drooping.

*Pyramidal-Flowered German.*—A tall branching variety of very fine form. The plant supports itself without tying.

*Dwarf Pyramidal Bouquet.*—This is a magnificent dwarf variety which grows about one foot in height. When well grown, a single plant forms a complete bouquet of pyramidal shape, and covers itself with blossoms, often producing 150 to 200 flowers which almost entirely hide the foliage. It is fine for edging and small beds.



VICTORIA ASTER.

The *Victoria Aster* is recommended as one of the most desirable flowers. It is perfectly double, imbricated, globular-shaped and in size equal to the *Pæony-flowered Globe*. The petals are flat, large and full. It is of a pyramidal habit and grows to a height of fifteen to eighteen inches.

*Washington Aster.*—This fine variety is derived from the *Victoria*, from which it is distinct in its much more robust habit. The flowers are larger and more globular, its colors being exceedingly pure and delicate. The noble size and perfect outline of the flowers in the *Washington Aster* mark it as one of the finest forms yet raised.

*Truffaut's Pæony-Flowered.*—This is the highest and most perfect type of its class. Selected from the most perfect of Mr. Truffaut's magnificent strain.



IMBRIQUE POMPON ASTER.

*Imbricated Pompon.*—The flowers of this are so very double that they appear almost spherical, and are densely imbricated. The plants are of pyramidal growth and about eighteen inches in height.

*Reid's Improved Quilled.*—This is remarkable for the globular form of its singular flowers. The single petals consist of tubes or quills and the outer courses are blossom petals which are slightly reflexed. Plants are one and a half to two feet high.



CHRYSANTHEMUM-FLOWERED.

*Dwarf Chrysanthemum-Flowered.*—This is one of the most dwarf varieties, growing only about ten inches high. It is quite late in blooming and therefore valuable for succession. The flowers are very large, three or four inches in diameter and freely produced. A single plant is a bouquet in itself. There are many distinct colors and tints mixed.

*Diamond.*—This is a novelty of the highest merit which was especially recommended by the floral committee of the London Horticultural Society. The plants are about



eighteen inches in height with very large flowers of the greatest perfection. It is constant in habit and color.

*La Superb.*—This is the highest and most perfect type of its class. The flowers are remarkable for their perfect form and immense size, being four or five inches in diameter, oval in shape, not showing an open center till the last stages of growth on account of the many closely set reflexed petals. There are many different colors and shades.



TALL CHRYSANTHEMUM FLOWERED.

*Hedge Hog or Needle.*—The distinguishing feature of this variety is its quills or sharp pointed petals, which make the flowers very curious in appearance and quite showy. The plants grow about two feet in height.

*Giant Emperor.*—This variety produces very large, double, snowy white flowers. The plant grows about two feet in height and is of good form. It is fine for bouquets and for decorating purposes.

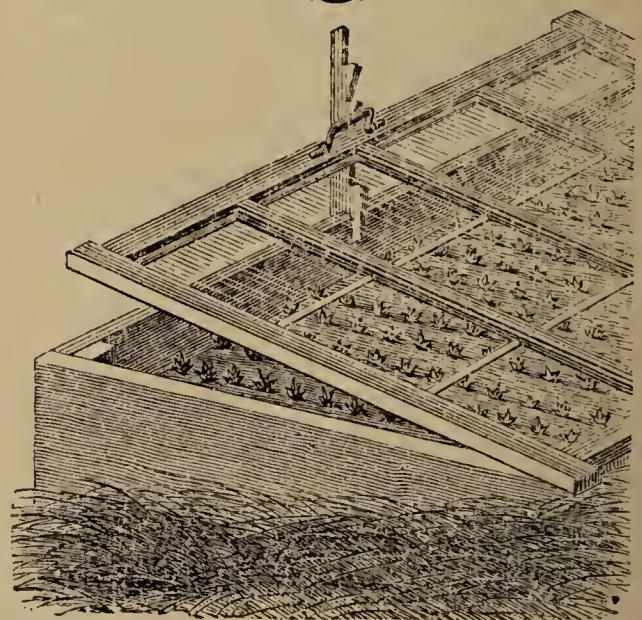


GLOBE-FLOWERED GERMAN.

*Shakspeare.*—A new dwarf Aster of great beauty. The plants form a compact bush ten or twelve inches in diameter and six inches high. The flowers are extra double and well imbricated. It blooms very full and remains in blossom until frost.

*Paony Flowered Globe.*—This ranks as one of the finest varieties for large groups and general effect in consequence of its robust self-supporting habit, large flowers, brilliant colors, prolific bloom, and massive picturesque effect. It is one of the earliest flowering varieties, of branching habit, and its flowers are very double.

We have this season imported our Aster seeds directly from the most noted growers of Germany, and think our selection will be complete and beautiful enough to please the most critical fancier. We will send a full collection of one packet each, of the nineteen varieties named on our list for One Dollar which is but about one-half the price at which they are usually sold.



Hot-Beds and Cold-Frames.

It seems as though every one who wishes the use of a hot-bed has had ample opportunity to learn how to construct one, as directions have so frequently been published in various periodicals and catalogues. Still with each recurring spring the query comes: "Will you have the kindness to give directions for the construction and use of a hot-bed?" We shall therefore in this article endeavor to give the first principles, and will say right here that this is not written for the professional gardener who already understands the business, but for



those who are just embarking in the business.

A cold-frame is a box, usually placed in a warm sheltered position, which is covered with glass to protect the plants from cold winds, confine the heat and moisture, which would otherwise arise and be carried away by the atmosphere, and concentrate the sun's rays. Late in the season, say after the middle of April in this latitude, most plants will grow and thrive in a cold-frame, but for starting seeds earlier, in February or March sufficient heat is not developed during the day to keep the bed from freezing during severe cold nights. To supply this, some kind of bottom heat is produced, and the cold-frame is then called a hot-bed. The heat which is evolved from fermenting stable manure is probably the cheapest and most readily obtained on most farms and hence is generally used for the purpose. Any person who has ever had the care of horse stables know that the fresh manure when thrown out in a heap will soon begin to smoke like a volcano and become very hot within. It would seem a very simple matter to draw this manure to the spot selected for a hot-bed and cover it with a few inches of good soil and make seeds grow rapidly by reason of the heat thus afforded, yet we have many times seen men try in vain to make it heat at all just when and where they wish it to. Let it therefore be understood that a load of cold manure and litter spread down to a thickness of one to one and a half feet will be so slow in heating as to be of little, if any use, in forwarding early vegetables. We have seen more failures made in the construction of hot-beds which could be attributed to thoughtlessness right here than to any other cause. The manure must be made to heat in a high conical pile and after it has become smoking hot it can be spread down to less than a foot in depth, and covered with soil, and will continue to heat for several weeks, while if cold manure was spread in the same way it would perhaps never heat. Taking this as a fundamental principle, in building a hot-bed the first step is therefore to find a few bushels of hot manure and pile it up in a high conical pile, then gather all the ma-

nure and litter within reach, either hot or cold, and fork it over in order to break the coarse lumps and place it upon the pile. If the material is dry pour a few pails of water on sufficient to dampen the whole, and continue to add manure, straw, leaves or litter of any sort, and water until you have about as many two horse wagon loads of material stacked up as you propose to use sashes, one load at least being required for each 3 by 6 foot sash. When the operation is finished let this mountain stand for about one week until it steams freely from the top. Don't get in a hurry and think you cannot wait a week for fear it will get too late, for if you spread it down too cold you will likely meet with several weeks delay where one would have been sufficient. Next select the situation for your bed. A load or two of straw may first be spread upon the ground, upon which, spread as evenly and finely as possible the hot manure from your prepared volcano, forming it into the shape of your proposed bed and at least a foot larger each way than your frame. Supposing you are to use four sashes each 3 x 6 feet, you will take some sound hemlock boards twelve or fourteen inches wide and nail them together thus forming a box or frame six by twelve feet. In this case your manure should have been spread in a square at least seven by thirteen feet. Lay some strips across the bed to prevent the edges of the frame from sinking into the manure, as there will be considerable weight when the glass is placed on. After placing the frame sprinkle well with water again and then cover inside the frame with about four inches of good, rich, loose, lively soil. Place the sashes on and leave it for a few days more until the soil has become warm. Then rake it down smoothly and sow your seeds in rows about three or four inches apart. It is very necessary to prepare some kind of mats to cover and protect the glass during cold nights which may come after the plants are well up even quite late in the season. Most gardeners make them of straw, but old carpets or blankets will answer a good purpose. For safety they should be put on every night so long as frost may be expected. The beds should be watched and the glasses raised and plants aired during warm sunny days, water given when needed and the plants removed to a new bed or cold-frame when about four inches high.

If all the above points are heeded and you do not produce an abundant supply of fine healthy plants please let us know where you fail.



### The Window Garden.

Please allow me to preface this window garden talk with a very few important suggestions. Amateur florists should be very judicious in the handling of insect destroyers and fertilizers for pot plants. Of the former, for instance, the use of the common match to destroy white worms, &c. Stuck down into the soil they will no doubt destroy or drive out the worm, but if the crock be small and full of roots it will also cause much injury, perhaps destroy the plant also, therefore it is dangerous. I have proven this fact by experimenting with small pots of Geraniums, and it is my opinion where a sufficient number is used to destroy animal life, vegetable life will suffer rather than receive benefit. In using stimulants the fault lies in making them too strong. A lady said to me a few days ago "I sent for a fertilizer to make my plants bloom, have only used it twice and the leaves are turning yellow, what is the matter?" Too much rich food given at once, their digestive organs are out of order just as the human is sometimes troubled for similar reasons. I know this fertilizer to be good, properly applied, but so many are apt to conclude "if a little be good, more is better"

Chinese Primroses are becoming great favorites for winter flowers, their low compact growth makes them desirable for the window shelf. Seed sown in April or May make fine plants for the winter. Use shallow box or pan, good friable garden loam prepared down to one inch of the top. Scatter seed on the soil and give a covering of moss rubbed very fine, just thick enough to cover the seed and retain the moisture necessary to germination. Keep in a cool place partially shaded, water moderately until plants are of sufficient size to pot off singly in small pots. Grow them well and shift into four- or five-inch pots before putting into winter quarters. Use rich soil in filling in at re-potting. They will begin flowering as soon as cool weather sets in and continue until late spring. Kept in a cool shady place and watered carefully they may be made quite

effective plants for the next winter. At this, their season of rest, it is a very easy matter to over-water them. *Cineraria Hybrida* seed may be treated much the same as primroses, but they begin flowering later, are lovely plants for late winter and early spring flowers, having also the advantage of a similar growth. They are profuse bloomers; flowers borne well above the foliage. Another favorite for winter flowers is *Cyclamen Persicum*, a native of Persia, said to be abundant in the Holy Land. This plant also has a dwarf habit; leaves beautifully marked: flowers lovely, standing above the foliage, and best of all, lasting some weeks, perfect. *Cyclamens* should be grown from seed sown as soon as possible after ripening. Water carefully, that is, do not keep them wet or let them get very dry. Pot off singly as soon as the plants have attained sufficient size and strength to bear handling. In re-potting be very careful not to disturb the ball of dirt. After flowering, and the leaves begin to turn yellow, turn the pots upside down on the north side of a building or fence and allow them to remain so until September. Unless the season is unusually dry they will draw from the earth sufficient moisture to keep them fresh and plump. Re-pot and set aside until new growth begins, after which, they may take their place in the window garden and soon begin to flower. Plant the bulb fully one-half on top of the soil in pots about three times the diameter of the bulb. Use charcoal, if possible, for drainage for all pot plants. A little, pulverized, will help to keep the soil pure. Over-watering, that is keeping the soil soaking wet, is a mistake, but allowing the dirt to become powder dry and remain so for any length of time is also wrong. Plants, like people, must only drink when dry, but the soil about the roots should be always moist. Water on the stove in the room where plants are kept keeps the atmosphere in better condition for floral and human life. Irregular watering of plants causes great loss of blooms. Yours &c., AMATEUR.

The bank where the wild thyme grows has declared a dividend of ten "scents" a share.



**Never Speak Ill of a Brother.**

NEVER speak ill of a brother!

Don't say a word that is mean;  
You'll find that you have plenty to do  
By keeping your own hands clean.

Never speak ill of a brother

Because he's done this or that;  
Perhaps if you held the same dish,  
You, too, would spill all the fat.

NEVER speak ill of a brother!

Let others speak as they will,  
If you can say nothing that's good,  
You'd better by far keep still.

Those who are eager to utter

All the vile slanders they hear,  
Don't consider for a moment

They're blasting a life most dear.

NEVER speak ill of a brother!

"Pause and consider awhile;"  
His heart may be buried in sorrow,  
"Yet more than yours free from guile."  
Darkness may hover about him,  
Leaving not one ray of light;  
Though clouds have darkened his pathway,  
That brother still may be right.

WE know not the heart, my brother—

It may be as pure as the snow;  
Then judge not, oh! judge not unkindly,  
Show charity here below.

Oh! ne'er speak ill of a brother,

Ne'er say one word that is mean;  
You'll find you'll have plenty to do  
If you keep your own hands clean.

**WALL'S ORANGE POTATO.**

From American Rural Home, Rochester, N. Y.

*EDS. RURAL HOME*:—Your favorable notice of our new potato—"Wall's Orange," will probably necessitate our answering numerous questions in regard to it; and with your permission, I will anticipate both questions and answers.

First.—We have no seed for sale! The sale and control of seed raised in 1882 passed out of our hands a year ago.

In regard to productiveness, hardiness, &c., I would say that I know of no variety, of as good quality that is as hardy and productive. We have grown and tested the past season thirty varieties, and in quality, hardiness and productiveness it exceeds them all.

The spring of 1881, we had only twenty-five pounds of seed: from which, under ordinary circumstances, in the field alongside other varieties, we grew thirty-six

bushels, large measure, of very fine large potatoes.

We this season planted "Wall's Orange" in the field with at least twenty other varieties. The whole field was fertilized with potash and Lister's phosphate, one part potash to three parts phosphate. A handful of the mixture to the hill. The fertilizer was scattered on the cross mark, the seed dropped and stepped on, and covered with a coverer.

The result was that "Wall's Orange" came up well and made a strong growth, producing a heavy crop of first quality potatoes, while not more than one hill in twenty of the other nineteen varieties came up at all, and many of those that came up were so weakened by the potash that they did not amount to anything. The seed was all cut in the same manner, at about the same time, and all planted in one day, by the same men.

I do not think anything further in regard to the vitality and hardiness of this variety need be said. It is a strong, rapid grower, and when it gets fairly started, bids defiance to bugs, and thus far to blight or disease of any kind; and as far as heard from, adapts itself to the various climates and soils of our vast and greatly diversified country. It is medium late, ripening perfectly when planted, by the middle of June.

The Farmers' Club have been discussing their mistakes, and our great mistake was in mixing potash with phosphate, and then putting the mixture in the hill.

We used the same mixture on another field of six acres planted about the 20th of June. After seeing the damage caused by the potash on the first named field, we covered the fertilizer with at least one inch of soil, and one hill in ten on an average failed to grow. We have been using phosphate on potatoes for years with the best results, and our failure this year we attribute to the potash, and shall in future—if we use any—sow it broadcast. LYMAN WALL.

A New York paper speaks of the wrecking of a vessel near the narrows, and says: "The only passengers were T. B. Nathan, who owned three-fourths of the vessel and the captain's wife." Singular announcement.



### Hints to Young Gardeners.

Sow in rows and drills rather than in beds, running them north and south, so that both sides may have the benefit of the sun part of the day. Make the beds as long as you can—150 feet, and longer if possible—as the longer the row, the less time will be used in turning and working them. Put them far enough apart to use a horse in cultivating, hand culture being much more expensive and tedious. The distance apart should be 2 to 3 feet for a horse: for hand-hoeing, 12 to 15 inches. If your garden is made up in beds, you lose the use of the ground devoted to paths, beside which nothing will grow very near the edge, and if there should the dragging of skirts over them will break and destroy, and the trampling upon the edges, if the path be narrow, and the rains, hoeing and weeding, will be constantly wearing them away, filling up the paths and narrowing the beds.

For sowing such long rows you should use a drill, finger work taking too much time, and being too wearisome. Commence sowing with any variety of seed you choose, and having sown all you wish of that kind, keep right on with another, and so on until you have finished. As some seed may not "come," and worms, insects, rains, &c., may destroy some young plants, it is well to keep a small quantity in reserve for re-planting where needed. Radish seed may be sown between the beet rows, as the radishes will be taken out before you will need to use the horse cultivator. So it will be well to sow the beet seed in the first or outside rows. Plants for late cabbages may be set in the ground previously occupied by peas and early potatoes, and flat turnip seed sowed where you have cut up your sweet corn, and among cucumber, melon, and squash vines. To economize thus and secure two good crops, the soil must be rich.

In sowing cucumber, melon, citron and squash seeds, prepare the hills by digging out to such a depth that, when you have put in as much manure as you wish, covering it with earth, then sowing the seed

and covering them, the tops of the hills will not be higher than the surrounding surface, but, rather below it. In hoeing, do not raise a hill, or, if you do, not more than 2 or 3 inches high, large and hollow like a dish. Never round up a hill, as such a hill dries out quickly and the roots are deprived of moisture. Hills for these (except summer squashes, which may be 4 feet apart) should be 8 to 10 feet from centre to centre. Pinch off the ends of vines 4 or 5 feet from the root.

There are many ways of caring for tomatoes, but of all, I prefer the stake, as taking less time and being more satisfactory and profitable. To train to a stake, three tyings will be necessary, tying each so tight to the stake that it will not slip upon it, and so loosely about the vine as not to obstruct its growth. If hens are allowed in the garden, it is well to cut off all the lateral branches from the ground up to two feet at least. Pinch off the end of each bearing branch, leaving but one bunch of fruit on it, and stop the upward growth of the main stalk when as high as you wish, in the same way. A sun-flower stake is the cheapest and most profitable, as it saves the time required to go the woods or elsewhere for stakes, to sharpen and set, and gather up and store for next year's use; besides, you have a harvest of seeds better for hens than corn. Cut the leaves from the flower-stalk a little higher up than the tops of the tomatoes to prevent shading. As tomatoes in rich ground will grow from four to six feet high, use the Russian sun-flower, which is the tallest of its kind.

Hybridizing may not be entirely prevented, but will be in part by planting the seeds of such kinds as are not likely to hybridize as far apart as your land will permit, growing between them one or more rows (the more the better, as the greater the distance the less likely will the wind or insects be to carry over the pollen) of such vegetables as do not intermix. The taller, also these intervening vegetables are, the better—corn, tomatoes, and tall peas like the Champion, furnishing the best barriers, especially if the hills stand in a diagonal or quincunx position, which will also allow of more hills.



Sunflowers intended for stakes should be started early in the house, so that they will attain a growth of two feet or more by the time you wish to set out tomatoes. It is a good plan to start both tomatoes and sunflowers in large turnips or potatoes having the eyes cut out, one plant in each, and upon removing to the garden, set the turnip or potato in the ground where the sunflower is to stand, close to and on the west side of the tomato.

Where tomato plants are staked, they expose their fruit much more completely to the sunlight and a free circulation of air; are always in sight and more readily gathered. If a horse can be used (and one should be to save time and labor), the drill, hoes, cultivators, &c., should be suited to his use, but if compelled to use hand labor, there are very excellent tools suited to such work. The soil of the garden should be as rich as you can make it with old, well-rotted stable manure. Do not use fresh or green manure, unless it be a coat of horse stable manure, which should be over the garden in the fall and raked off in the spring, and burnt on the ground or carried off. Beet, potato, and other tops and leaves, should be thrown into heaps to rot. Onion tops, however, if cut off, should be left on the ground from which they grew, and the same ground may be used for onions for no matter how many successive years. Other garden crops should rotate.—*C. E. Hewes, in Country Gentlemen.*

"Jane, give the baby some laudanum, and put it to sleep, and bring me my parasol. I am going to a meeting for the amelioration of the condition of the human race."

"Do you think your father is going to move out soon?" inquired the owner of a rented house of the son of his tenant.

"Reckon so" was the reply. "We've begun using the winder frames for firewood."

Among the replies to an advertisement of a music committee for "a candidate as organist, music teacher," etc., was the following:—"Gentlemen: I noticed your advertisement for an organist and music teacher, either lady or gentleman. Having been both for several years, I offer my services."

### FLORAL NOTES.

**PANSIES AND VERBENAS**—Pansies can be brought along so as to bloom in Spring, and verbenas may be made fine, strong plants for planting out when frosts are over. Sow the seed in boxes or pots of light, fine soil, and cover very lightly. Water gently, and it will then be best to cover the surface of the soil with a piece of coarse textured paper, such as brown wrapping paper. The water can be given on the paper, and will then slowly filter through without disturbing the surface of the soil; besides the paper will check evaporation and hold the soil in a moderate moist condition. As soon as the plants appear, the paper can be removed. When the young plants are well up, and have made two or three leaves, they can be pricked out into fresh soil, and be given room enough to continue their growth until another shift may be necessary or they are planted out. Give the plants plenty of light when they begin to grow, and air occasionally, so that they may be stout and stocky, and not weak and spindling, as they would be with a lack of light or air.

**BY STRIKING YOUNG** verbenas plants in the last days of July, and potting them first into trumps and then into larger as soon as the roots have reached the sides, and keeping them in vigorous growth, pinching back the leading shoots and nipping off every flower head, the verbenas may be made to bloom in the window all winter. There is danger from over watering.

**THE DRAINAGE OF THE** flower-pots should be perfect so that the surface water can escape through the hole in the bottom of the pot. If the pot stands in saucers pour off the water that runs into them and not let it be soaked up into them again. Yet this rule, though of very general application, need not be observed in the case of aquatic plants.

**AMONG THE MANY** plants for ornamental foliage beds there are none, perhaps, more useful or popular than the varieties of coleus. Their leaves present an almost endless show of brilliant colors; they are easily grown, and therefore, can be obtained at little cost, about seven dollars for a hundred being the usual price.

**A LADY CORRESPONDENT** of the *Country Gentleman* claims that by dipping the joints or fleshy ends of turkey, geese or chicken wings into a strong solution of copperas they are made moth proof, as well as more durable than when treated in the ordinary way.



## NOTES AND GLEANINGS.

FARMERS SHOULD LIVE like princes. Eat the best things you raise and sell the rest. Have good things to cook with. Of all people in our country, you should live the best. Throw your miserable little stoves out of the window. Get ranges, and have them built that your wife need not burn her face off to get you a breakfast. Do not make her cook in a kitchen hot as a fiery furnace. The beef, not the cook, should be roasted. It is just as easy to have things convenient and right as to have them any other way. Cooking is one of the fine arts. Give your wives and daughters things to cook, and things to cook with, and they will soon become most excellent cooks. Good cooking is the basis of civilization. The man whose arteries and veins are filled with rich blood made of good and well-cooked food, has pluck, courage, endurance and noble impulses. Remember that your wife should have things to cook with. In the good old days there would be eleven children in the family and only one skillet. Everything was broken or cracked or loaned or lost.

THERE IS NO REASON why farmers should not have fresh meat all the year round. There is certainly no sense in stuffing yourself full of salt meat every morning, and making a well or cistern of your stomach for the rest of the day. Every farmer should have an ice house. Upon or near every farm is some stream from which plenty of ice can be obtained, and the long summer days made delightful. Dr. Draper, one of the world's greatest scientists, says that ice-water is healthy, and that it has done away with many of the low forms of fevers in the great cities. Ice has become one of the necessities of civilized life, and without it there is very little comfort.

YOU CAN DIVIDE MANKIND into two classes: the laborers and the idlers, the supporters and the supported, the honest and the dishonest. Every man is dishonest who lives upon the unpaid labors of others, no matter if he occupies a throne. All laborers should be brothers. The laborers should have equal rights before the world and before the law. And I want every farmer to consider every man who labors either with hand or brain as his brother. Until genius and labor formed a partnership there was no such thing as prosperity among men. Every reaper and mower, every agricultural implement, has elevated the work of the farmer, and his vocation grows grander with every invention. In the olden time the agriculturist was ignorant;

he knew nothing of machinery; he was a slave of superstition.

The idea must be done away with that there is something intellectually degrading in cultivating the soil. Nothing can be more noble than to be useful. Idleness should not be respectable.

REMEMBER, THAT YOU ARE in partnership with all labor—that you should join hands with all the sons and daughters of toil, and that all who work belong to the same noble family. For my part, I envy the man who has lived on the same broad acres from his boyhood, who cultivates the field where in youth he played, and lives where his father lived and died. I can imagine no sweeter way to end one's life than in the quiet of the country, out of the mad race for money, place and power—far from the demands of business—out of the dusty highway where fools strive for the hollow praise of other fools.

MAKE YOUR HOUSES COMFORTABLE. Do not huddle together in a little room around a red-hot stove, with every window fastened down. Do not live in this poisoned atmosphere. Have plenty of warmth. Comfort is health. Do not imagine anything is unhealthy simply because it is pleasant. This is an old and foolish idea. Let your children sleep. Do not drag them from their beds in the darknees of night. Do not compel them to associate all that is tiresome, irksome and dreadful with cultivating the soil. In this way you bring farming into hatred and disrepute. Treat your children with infinite kindness, treat them as equals. There is no happiness in a home not filled with love. Where the husband hates his wife, where the wife hates the husband; where children hate their parents and each other, there is a hell upon earth.

USE OF LIME.—The first and one of the most important rules to be observed in the use of lime is, that it should be applied in these large doses only to soils comparatively rich in humus, or strong clay soils, rich in finely divided silicates. It has been proved by experiment that lime will convert plant food from insoluble to soluble forms in either case. We find the proverb current in France and Germany, as well as in our own language, that "lime without manure makes the father rich, and the children poor;" which means, plainly enough, that not only should we start with a good soil in using lime but should maintain its good soil in using lime.

CELERY.—After trying for a number of years almost in vain, says a farmer, to raise good celery on ordinary dry garden soil I finally borrowed the use of a little patch of reclaimed swamp land—deep, black muck, well drained but moist,



and for the past two seasons have grown on it very fine celery with but little labor. So I shall never again attempt to grow this vegetable on common garden soil without some cheap and easy method of irrigation.

NO MAN CAN BE a good neighbor to both himself and his neighbors who is a sufferer from dyspepsia. No man ever suffered from dyspepsia who made his meals largely of fruit, and had a good variety of victuals and time to eat them. Fruit and vegetables require time and attention to raise; but it is better to put out an orchard and let it do its own pruning and mulching than to have none at all; and it is a great deal better to spend an occasional half day in the care of a garden than it is to spend all the time in the corn field and have no garden. By all means have a truck patch, and attend to the care of it yourself.—Industrialist.

ONE OBJECTION to a large farm of sufficient capacity to meet the wants of a great farmer is that it concentrates all the crops and all the manure at one point. In harvest time short hauling of hay and grain saves valuable time, and when manure is to be drawn, short distances to the fields from the heaps or sheds very much lessen cost. It is better to divide on large farms, and have two or more separate points of concentration and distribution, and thereby save great cost in team work. And too, it is very wise to so divide the farm buildings as to not have them all burn at one fire. These are general considerations.—George Geddes.

SORGHUM FOR BUTTER.—A successful dairy farmer of Wisconsin relates his experience as follows: "I planted an acre of Imphee (sorghum or amber-sugar cane will do as well.) A touch of frost induced me to cut it early, and not succeeding in getting a mill to work it in time, I stacked it the same as corn, and afterward drew it convenient to the barnyard. In December I fed it to my milch cows, throwing it over to them whole, same as corn stalks. Now the result! Although they had abundance of hay, they were as greedy for the cane as boys after sugar plums. Every scrap of it was eaten, and so close that nothing was left to indicate what had been fed to them; no food seemed to do them so much good. We could see no material difference in the quantity of the milk, but in the quality one good housewife said she never saw anything like it for "it was nearly all cream." I believe an acre of cane is worth more for milch cows than many acres of hay. Plant a patch of cane for your cow's cream, and a bed of carrots for the

color, and feed; the cow's mouth is the true strainer for a good color; and let dye stuff alone. Try it.

SOWING SEEDS.—Joseph Harris, in his seed catalogue, gives his young customers some good directions about sowing garden seeds. He says they should be covered only deep enough to keep moist, and that small seeds, such as lettuce, radish, Drummond phlox, aster, verbena and pansy need not be covered deeper than a sheet of writing paper is thick. If pressed into the soil and kept moist they need not be covered at all. Petunia seeds are easily covered so deep that they will not grow, while peas will grow if covered two or three inches deep. As a rule for out door planting it is well to cover seeds to a depth of three to five times their diameter, and no more, so that large seeds like corn and peas will be many times deeper than the minute seeds of the portulacca. All must have the requisites of warmth, moisture and air (but not light) and if buried too deep the air will be excluded. Peter Henderson finds great benefit in covering the seed, after pressing it into the soil, with a thin coat of finely pulverized moss evenly sifted on and kept wet.

FARMERS, AND ESPECIALLY farmers' boys, isolated in their work, are apt to feel as if engaged in an occupation of little account, disdained by persons of ability and mark. On the other hand, men of fame and station are very much given to longing for the time when they can leave the attained but disappointed heights of admiration and go down to the quiet valley to join in the wholesome and satisfying labors of the field. One of the latest notable examples of this general feeling carried out into practice is that of Captain Mayne Reid. He lives in the beautiful agricultural valley of the Wye, near the town of Ross, Herefordshire, experiments in gardening and reports with a fairness and a nice discrimination of facts and of language which makes his letters in this line scarcely less interesting than the stories of travel and adventure told to boys in his books. Nothing can exceed the candor and fairness with which he treats disputed points or opposing views, sensible that exact observation, through a series of years, can alone justify a fixed opinion.—New York Tribune.

PROFESSOR C. V. RILEY has deposited in the United States National Museum his extensive private collection of insects. The collection comprises some thirty thousand species, and upwards of one hundred and fifty thousand specimens.



## SEED-TIME AND HARVEST.

1883—SPRING—1883.

Now is the time to prepare your orders for **NEW and RARE** Fruit and Ornamental **Shrubs, Evergreens, ROSES, VINES, ETC.**

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Besides many Desirable Novelties: we offer the largest and most complete general Stock of Fruit and Ornamental Trees in the United States. Abridged Catalogue mailed free. Address **ELLWANGER & BARRY, Mt. Hope Nurseries, Rochester, N. Y.**

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## Fruit Farm For Sale,

on the Rappahannock River, Virginia, **123 acres.** 30 of which are in Pine Timber, remainder in a high state of cultivation; contains 1500 Apple, 600 Pear, 200 Peach, 200 Apricot and Plum, 150 Cherry, and 100 Quince Trees, all the Small Fruits besides five acres in vineyard, all of which do well. The Farm is situated at the junction of the Currotoman and Rappahannock Rivers, about one mile from the thriving village of Millenbeck, where the Steamers plying between Baltimore and Fredericksburg stop five times per week. Fronts some of the best oyster grounds in the state. Also contains a fine Oyster Creek part of which could be successfully converted into a fish pond. Dwelling two stories, contains ten rooms including basement and attic. All necessary out-buildings. Buildings comparatively new. I will sell sixty acres of the above, containing an Orchard of 600 Apple Trees and fifteen acres in timber, no dwelling, for \$35 per acre. Or will sell the whole for \$5000. Terms: one-half cash, balance on easy terms. Address, **J. C. TAWLES, Millenbeck, Va.** 17—t1

## A PRINCELY OFFER

Desiring to introduce our paper entitled **YOUTH** into thousands of homes, where it is not already taken, we make the following princely offer: upon receipt of **sixty cents** in postage stamps, we will send **YOUTH** for six months, and to each person we will send, free, the following premiums:

**One Combination Needle Casket**, containing 4 Papers Celebrated Long-Eyed Needles, 2 Steel Bodkins, 2 Yarn Darners, 2 Double Long-Eyed Darners, 2 Fine Darners, 2 Motto Needles, 2 Wool Darners, 2 Carpet Needles, 2 Worsted Needles, 2 Button Needles. These Needles are best quality.

**One Collar Button, One Microscopic Charm**, containing the Lord's Prayer; it occupies a space less than the eye of a fine needle, yet magnifying to such an extent as to show the Lord's Prayer printed in **LARGE TYPE.**

**One Beautiful Chinese Lamp Shade**, of variegated color and rich design, will fit any lamp, and is very handsome indeed.

**One Cinderella Thimble-Case**, containing a Gold-Plated Thimble. The case is made of light metal, run in a mould, covered and lined with velvet and silk, and is elegantly embroidered with silk floss of various colors.

**One Charm Knife**, suitable for a lady or gent.

**One Imitation Colored Porcelain Pin**; this is entirely new, and just imported from Paris. It is beautifully colored in imitation of a full-blown rose, with leaves and branch; nothing about it to tarnish, and will wear for years.

**One Elegant Ladies' Pearl Shell Necklace.** This elegant necklace is composed of many beautiful pearl shells. At each end is a tassel, likewise composed of the shells, and when worn the ends are twisted just above the tassels to join. No lady can fail to be proud of this magnificent necklace.

For \$3.00 we will send six lots; get five friends to join you, and thus secure your own premiums and paper free. **YOUTH** is a large, 32-column Illustrated, Literary and Family Paper, filled with bright and sparkling Stories, Sketches, Poems, Household Notes, Puzzles, Pictures, etc., in fact, everything to amuse and instruct the whole family circle. Address **YOUTH PUB'G CO., 32 Deane St., Boston, Mass.**

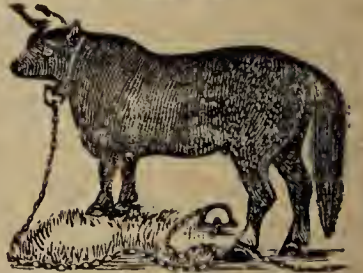
## FREE TO YOU!

**A MAGNIFICENT GIFT!** There has just been produced an elegant Album of Photographic Views, embracing every object of interest in every important city and country in the world. It is entitled "**An Album of the World's Wonders,**" and contains 116 beautiful Photographic Views in London, Kilmburgh, Liverpool, Glasgow, Paris, Marseilles, Berlin, Munich, Stuttgart, Dresden, Ilamburg, Baden-Baden, Frankfurt, Stockholm, Christianna, Copenhagen, Vienna, Rome, Naples, Milan, Florence, Venice, Brussels, Amsterdam, Switzerland, St. Petersburg, Cologne, Palestine, Constantinople, New York, Chicago, Boston and Melbourne. The views are not cheap or inferior, but are the finest and most elegant specimens of the photographer's art, and the whole are handsomely bound in a beautiful album, forming one of the most entertaining and instructive productions of the age. As we turn its many pages we see spread before us a complete panorama of the world, with all its wonderful sights—the public buildings, castles, palaces, ancient ruins, parks, harbors, streets, cathedrals, etc., etc., and our satisfaction is almost as great as if we had journeyed round the world to see these wonderful sights. This charming album should have a place upon every parlor table, and, in order to introduce our splendid literary and family paper, **The Fireside at Home**, into thousands of homes where it is not already taken, we now make the following extraordinary offer: Upon receipt of only **Twenty-five Cents** in postage stamps we will send **The Fireside at Home** for **Three Months**, and we will also send **Free and post-paid** to every subscriber, "**An Album of the World's Wonders,**" as described above. The album is sent **absolutely free** as a premium with the paper. **The Fireside at Home** is a mammoth illustrated paper containing in every issue 16 pages, 64 columns, of the choicest reading matter, embracing serial and short stories, sketches, poems, useful knowledge, history, biography, wit and humor, and everything to amuse, entertain and instruct every member of the family! Send now and get this great bargain! **Perfect satisfaction guaranteed or money refunded.** As to our reliability we refer to the publisher of any newspaper in New York. Five subscriptions and five Albums will be sent for \$1.00; therefore by getting four of your friends to send with you, you will secure your own free. Address, **F. M. LUPTON, Publisher, 27 Park Place, New York.**

## \$1,000 SAVED!

In Grass and Fences, by use of **ROCK'S IMPROVED TETHERS**, for tethering Cows, Horses, or other animals in pasture. No fences needed; all waste grass utilized. Send for circular and reduced price list.

**EUGENE ROCK,**  
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## THE BEST STRAWBERRY!



—a bonanza for Fruit Growers South and West, as it withstands droughts and sunburn best of all. Extremely vigorous grower; *immensely productive*; berries extra large; light red; ripens extra early; ships 300 miles or over. The trade supplied. Colored picture and descriptive price list **free.**

I am branch Headquarters for the **IVANHOE APPLE**, a fine, yellow, juicy apple which keeps until July. Scions or buds, \$2.00 a dozen; Trees, \$1 each. I am also branch Headquarters in the Middle and New England States for the **TEXAS RED HYBRID BLACKBERRY.** The trade supplied at low rates. **BIG BOB, JAMES VICK, Ray's Prolific, Jersey Queen** and 40 other Strawberries; **Hansell** and 150 other Raspberries; **Fay's Currant**; all the best New Grapes; **KIEFFER Blackberries, &c., &c., &c.**



**Pears, Apple and Peach Trees** as specialties. My Hand-book, *The Fruit Grower's Friend*, price 30 cents. Catalogues free. Mention this paper.

**R. H. HAINES,**  
Moorestown, N. J.

## CONSUMPTION.

I have a positive remedy for the above disease; by its use thousands of cases of the worst kind and of long standing have been cured. Indeed, so strong is my faith in its efficacy, that I will send **TWO BOTTLES FREE**, together with a **VALUABLE TREATISE** on this disease, to any sufferer. Give Express & P. O. address. **DR. T. A. SLOCUM, 181 Pearl St., N. Y.**



HOW THE ALLIGATOR DOES IT.—The alligator's mode of obtaining a living is thus described: "He is a lazy dog, and instead of hunting for something to eat he lets his victuals hunt for him. That is, he lies with his mouth open, apparently dead, like the 'possum. Soon a bug crawls into it, then several gnats and a colony of mosquitoes. The alligator don't close his mouth yet. He is waiting for a whole drove of things. He does his eating by wholesale. A little later a lizard will cool himself under the shade of the upper jaw. Then a few frogs will hop up to catch the mosquitoes. Then more mosquitoes and gnats light on the frogs. Finally a whole village of insects and reptiles settle down for an afternoon picnic. Then all at once there is an earthquake. The big jaw falls, the alligator slyly blinks one eye, gulps down the menagerie, and opens his great front door again for more visitors."

EXPERIENCE SHOWS THAT liberal manuring is the most economical. We can see in the past harvest where \$5 more fertilizer per acre would have been twice that value in grain. There can be no doubt that artificial manuring must become a part of our settled practice in the future, and making a few careful experiments will give valuable experience as to the use of these fertilizers.

HENS DO BETTER WHEN allowed a free range outdoors, than when confined. Darwin says: "In Europe close confinement has marked effect on the fertility of the fowl; in France it has been found that with fowls allowed considerable freedom, 20 per cent., only of their egg fail to hatch; with less freedom, 40 per cent., failed; and in close confinement, 60 per cent., were not hatched.

ARTIFICIAL HATCHING OF eggs was practiced from time immemorial in China, India and Egypt. It is still practiced in the latter country, where incubators are in use, of a capacity of 40,000 to 80,000 eggs. The country people furnish the eggs, receiving, at the expiration of 21 days, 200 chickens for every 300 eggs.

WORK NOT A ROD of land more than you can work well. It is easier and far more profitable to reap 60 bushels from one acre than 50 from two. Manure and proper cultivation will enable you to do it.

FRESH MANURE PRODUCES but little effect when applied to crops, but when it is well rotted, it then contains much valuable, soluble matter, absorbable by plants. In fresh manure, the most important constituent of its soluble portion is potash, and contains but small proportions of

ammonia and phosphoric acid. Rotten manure, on the contrary, yields to the solvent action of water large amounts of nitrogen and phosphoric acid.—American Cultivator.

PROF. ATWATER, WHO HAS been making many experiments with cotton seed meal food, and for dairy cows especially, finds that five pounds is as much as can be fed with safety, owing to its abundance of the albuminoids. He finds that the gaeate-t milk effect was secured by a ration of 100 pounds corn meal, 80 pounds of bran, and 65 pounds of decorticated (huskless) cotton seed meal.

TO MAKE GOOD BUTTER in winter it is essential that the cream should not stand too long before being churned. The temperature of the cream when placed in the churn should not be lower than 60°, nor higher than 62°. Sixty degrees, when the churn is warmed by hot water in the winter, or cooled in summer, is the proper temperature, and one that will be satisfactory.

EVERY YEAR THE AVERAGE yield of butter from Jersey cows is increasing. We hear of them now as giving as much as 16 pounds of butter a week. It seems impossible, and they not only do this, but the yield increases every year on the average.

FOR CABBAGE WORMS, Professor Riley recommends hot water judiciously applied from a watering pot. This must be done with caution, and therefore, is liable in careless hands to do more harm than good. Professor Riley also advises, for the same purpose, applying repeatedly a solution whale oil soap and water, in proportion of one pound of soap to six gallons of water. Pieces of board raised an inch above the surface of the ground, afford an opportunity of examining and destroying once or twice each week the transforming larvæ under them.

FARMERS IN THIS country have experienced relief from grubs at the roots of cabbage by loosening the earth close to the roots with a hoe, and pouring about the plant one fourth of a pint of soft soap and water two or three times during the season. The solution consists of one part soft soap to twelve parts water. Weaker suds poured on top, it is claimed by some gardeners will destroy the green worm.

THE TABULATED STATEMENTS published by the Country Gentleman during the last 12 years, showing the results of public sales of Short-horn herds in the United States and Canada give a total for that period of 29,859 head and \$8,268,576, an average of nearly \$277 per head. Let's all turn stock breeders.



# Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL IV., NO. III.                      WHOLE NO., XVII.  
LA PLUME, LACKAWANNA Co., PA.,      MARCH, 1883.

When with icy fetters broken,  
Though by human words unspoken  
Spring comes, fitting sign and token  
Of the resurrection morn;  
Then I saw thee summer hasten  
With thy gorgeous, sunset hues  
And thy genial warmth and sunshine,  
And thy gently falling dews.

We again insert our Seed Price List in the advertising department of this number and will continue the offer made in our last to send your own selection of Flower or Vegetable seeds from that list to the amount of \$1.00 and SEED-TIME AND HARVEST monthly for one year for only \$1.00, or for 50 cents the Magazine a year and your own selection of Flower seeds to the amount of 50 cents.

**Our Colored Plate.**—The excellent plate in this issue represents two of the notable potatoes now being disseminated and of which all of our readers have no doubt heard. These pictures were drawn from life having been photographed directly from potatoes which we furnished the artist's, and we were the original introducer of them. These plates cost us several hundred dollars, and some unscrupulous parties who desired to secure, without great cost, engravings intended to represent potatoes they were offering for sale, have purchased copies of our electrotypes and affixed other names to them and placed them before the public as fair representations of potatoes they were offering to their customers. This is notably the case in the catalogue of one seedsman who offers a potato called the McCormick, the picture of which is made from a cut of the

Wall's Orange purchased from us. Another catalogue contains a picture of Wall's Orange labeled Early Telephone which really bears no resemblance to it. When parties buy electrotypes they may have the right to give them any name they choose, but we consider it very unfair of them to impose upon their customers in this manner, and it is hardly living up to the precepts of the Golden Rule.

—  
"Over and over again,  
No matter which way I turn,  
I always find in the book of life  
Some lessons I have to learn.  
I must take my turn at the mill;  
I must grind out the golden grain;  
I must work at my task with a resolute will,  
Over and over again."

**Seeds at Wholesale.**—Market Gardeners or Dealers requiring large quantities of seeds (say Ten Dollars worth or over) should send for our new Wholesale List. While the prices we give elsewhere in this issue are as low as good reliable seeds can be mailed in small lots on general orders, we can and will give lower rates on some articles in large quantities. If you wish a large quantity of any particular item write for an estimate or send for Wholesale List.

**Potatoes by Mail.**—In sending potatoes in pound lots we usually select the small or medium sized tubers for the reason that they contain many more eyes to the pound and most persons prefer them. Occasionally, however, we get a complaint from parties who say they expected large tubers. Now, if you prefer large tubers in pound orders please say so upon your order and you will get them. Otherwise, we shall continue to send small or medium sized ones.

## OUR CLUBBING LIST.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST. (Of





a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

American Agriculturist.....	\$1.10
American Rural Home.....	1.00
Agricultural Epitomist.....	.40
Country Gentleman.....	2.25
Demorest's Magazine.....	1.75
Farm and Garden.....	.35
Farm Journal.....	.35
Farm and Fireside.....	.50
Fruit Recorder.....	.75
Floral Cabinet.....	1.00
Gardener's Monthly.....	1.75
Green's Fruit Grower.....	.20
Household.....	.90
Harper's Magazine.....	3.50
New York Tribune, Weekly.....	1.25
New York Tribune, Semi Weekly.....	2.20
Poultry World.....	1.00
Practical Farmer.....	1.00
Rural New Yorker.....	2.00
St. Nicholas.....	2.75
Scientific American.....	2.75
Scribner's Monthly (Century).....	3.60
Toledo Blade.....	1.25
Vick's Monthly.....	1.00
Western Plowman.....	.50
Youth's Companion.....	1.75

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

## Crimson Beauty.

THIS beautiful berry now being introduced by Mr. A. M. Purdy of Palmyra, N. Y., is a Kansas production, having been originated by Dr. Stayman, of Leavenworth. Mr. Purdy certainly had great confidence in its value, as he pays the Dr.

\$1,000 for his stock. He says it is larger and equally as productive and hardy as the Turner, and earlier and firmer. As it originated in Kansas and has withstood the climate of that state which is acknowledged to be one of the hardest for raspberries it will no doubt prove a great acquisition for our western friends.

SPRING IS NOW UPON US. To day (March 2nd) is the pleasantest day we have had in many weeks. The snowbanks are still to be seen in shady places and upon the northern slopes of the tallest hills. As the frost leaves the ground the brisk breezes take away the escaping moisture and the roads are passibly dry. The sugar makers are just tapping their trees, some weeks later than usual, and a short season is predicted. We have had such long continued and severe cold weather that few hot-beds have been started in this vicinity. We think that the backwardness of the season has made our customers later in sending in their orders than usual but they are coming freely now. Our daily mail now averages from 200 to 300 letters and is rapidly on the increase. We are trying to keep the orders filled right up to the date of receipt but there are a few items which we depended upon procuring from other growers which we have been unable to procure as soon as we expected and some delays are unavoidable. We wish our customers to know that there is some one at this end of the line and that we are striving to deal



with each and every one in a manner that shall more than satisfy all who patronize us. If mistakes occur please treat them as mistakes and remember that we are anxious to correct them if given a chance. If you have any reason for feeling dissatisfied we shall esteem it a favor to be informed of it and given a chance to satisfy you.

WE HAVE a great deal to do and to think of at this season of the year, and correspondents must not think it strange if we give short answers to letters which they think deserve more attention. All seed orders should always be upon separate sheets from letters or correspondence upon any other subject. It is very annoying and greatly productive of errors to have a correspondent mixing up things as some do. When we get a rambling letter upon general subjects with an order for seeds, a list of words in competition for a prize, subscription to a newspaper or two, a question to which the writer wants a personal reply by mail and a communication for SEED-TIME AND HARVEST all jumbled upon one sheet of paper, and particular pains taken to write upon both sides of that so as to preclude the possibility of separating these different subjects and sending each to its proper department, it is not strange that some of the subjects get neglected. Our business has grown to such dimensions that one pair of hands cannot put up all the seeds, book and fill all the orders, answer all the questions, write all the editorials and other articles, set up all the type, attend to the engine, feed the presses, print and mail all the catalogues and copies of SEED-TIME AND HARVEST and various other species of work, all of which are done under our roof. Your humble servant tries to make his hands do as much of it as possible, hardly taking time to eat and sleep, but if it were not for the helping hands of his willing and trusty assistants he fears you would find more frequent cause for complaint than you ever yet have. Besides he has some home duties which cannot be entirely overshadowed by the clouds of business. Four little faces might frequently be seen at a certain window a quarter of a mile from our office

watching for "papa, and who would be so cruel as to rob them of the pleasure of a half hour's visit before being laid away for the night? And then—ought we to tell it right out here in meeting—only a fortnight ago a fifth—a wee little stranger came, and although small of his age and young for his size, he too has made a deal of trouble, but there is no doubt, kind friends. that if we bear with him for a time he will some day help to fill your orders and answer your letters and repay it all. But here comes Nellie—she is the young lady who takes our ideas from hasty pencilings and puts them into type—with a call for more "copy" and if we get this postscript into the March number she must have it to-day, so we again ask all our kind friends to bear with all our blunders, excuse our errors, pardon our short comings—and—and—and—send on your orders. Will do the best we can by you, anyway.

#### AMONG OUR EXCHANGES.

SO MANY GOOD THINGS in the way of literature reach our table that it is almost impossible to mention all of them. We can only speak of a few of them this month and of others as we have opportunity

THE POPULAR SCIENCE MONTHLY, published by D. Appleton & Co., N. Y., fills a niche left vacant by all other publications. Class journals devoted to specialties in mechanical, philosophical and art subjects are almost innumerable, but it is reserved for this excellent magazine to offer a dish of scientific subjects sufficiently interesting to be relished by the plowboy or the professor in the university. \$5 a year.

IF EVER there was an interesting and attractive Magazine it is *Wide Awake*, published by D. Lothrop & Co., Boston. The elegant engravings and beautiful lettering, printed on 150 pages of the finest book paper render it sought for by every appreciative youth, and many older ones cannot resist the temptation to while away an hour or so in perusing its pages. The truly artistic character of the Mechanical work combined with the high literary merit of its contents, renders it a desirable substitute for much of the trash usually found in many of the so-called youth's papers.

ONE of those most interesting tales of life in Australia, written by W. H. Thomas, and now being published in Ballou's Magazine, attracts thousands of readers and will undoubtedly give that excellent Magazine a "big run." Much other interesting matter, consisting of tales, and sketches of history and travels, make Ballou's one of the cheapest magazines



published. \$1.50 a year. Thomes & Talbot, Boston, Mass.

THE CENTURY is ever a welcome guest, and its broad pages filled with choice matter, finely illustrated by the best artists the country affords has an attraction above almost any other publication. Its publishers spare no pains or expense to keep it in the very front rank.

In our list of exchanges last month we inadvertently omitted several which we give in the supplementary list below.

New England Farmer, Volume 62, 4 pages, weekly, \$2 15. Darling & Keith, Boston, Mass.

Poultry Bulletin, Volume 13, 32 pages, monthly, \$1 25. Chas. R. Harker, 62 Courtland St., N. Y.

Maryland Farmer, Volume 20, 32 pages, monthly, \$1.00. Ezra Whitman, Baltimore, Md.

Poultry Monthly, Volume 5, 24 pages, monthly, \$1.25. Ferris Pub. Co., Albany, N. Y.

The Floral Instructor, Volume 3, 28 pages, monthly, 50 cts. Spalding & McGill, Ainsworth, Iowa.

## Advertisements.



## TELEPHONES!

For private lines. Latest, best; always reliable; work 2 miles on cable-wire. Illus. Circulars free. Holcomb & Co., Cleveland, O.

**THIS SPRING** I will send **SHARPLESS** Strawberry Plants at 20 cents per dozen. W. S. SLAYTON, Fairfax C. H., Va.

**HOP PLANTS.** \$2 per 100, \$15 per 1000, by Freight or Express at purchaser's expense. CHAS. HAVENSTRITE, Moscow, Lack'a Co., Pa.

## GRAPE VINES! GRAPE VINES!!

I have arranged to supply my patrons with an extra No. 1 quality of Grape Vines, directly from one of the most successful growers in America, at the following prices: Ten or more at hundred rates by express.

	By Mail.	By Expr.
	each.	100
Concord and Clinton.....	\$.20	\$12.50
Champion and Iowa.....	.25	18.00
Brighton and Delaware.....	.30	20.00
Rogers Hybrids and Lady.....	.30	20.00
Moore's Early.....	.50	30.00
Prentiss.....	.75	70.00
Lady Washington and Jefferson	.75	70.00
Pocklington and Vergennes...	1.00	90.00

Prices of other varieties will be given on application.

Other classes of Nursery Stock will be ordered for those who wish from the most reliable nurseries at the most favorable rates. Please let us price your list. ISAAC F. TILLINGHAST, La Plume, Pa.

### A NEW ARRANGEMENT

has been completed by which I can hereafter ship Seed Potatoes of most varieties in my list in quantity by freight from Rochester, N. Y. or Chicago, Ill. to those who are in more convenient shipping distance from those places. I can also ship a variety of Farm Seeds, corn, oats, wheat &c. from these points.

The various Garden Implements advertised by me will be shipped from La Plume, or from the various factories where they are made, or from Rochester or Chicago, as preferred. Correspondence from parties wishing to purchase is solicited and prices and particulars will be freely given.

ISAAC F. TILLINGHAST.

## EARLY POTATO, "Lee's Favorite," Tomato, "Alpha," Sweet Corn, "Ford's."

In the above we have three other of their season home use **BONANZAS** For Gardeners **THAT CAN'T BE BEAT.** all of which are superior to any other of their season home use. For Market or home use who will give satisfaction to those who will try them as they give full description of the above and a full list of Small Fruits, Potatoes, &c. Prices low. Manchester Strawberry, doz. 50c., hundred, \$2. It will pay you to send for catalogue before placing your orders. **FRANK FORD, Ravenna, O.**

### 24 Stop Organ for \$51.

This offer, made in this magazine by Mayor Beatty of Washington, New Jersey, of a 24 stop organ for \$51, delivered at your very door, is one that lasts but 10 days from the date of this magazine, and our readers should take advantage of it at once. The well-won reputation of this house assures buyers that they will get what he advertises; and the price, with all freight prepaid, should give him, as it will, thousands of additional satisfied customers. We are informed by good authority that Mr. Beatty is manufacturing and shipping sixty-nine organs daily, and is running his factory nights in order to fill orders promptly.

The Washington (New Jersey) Star says: "The Hon. John Hill, Member of Congress of Boonton, New Jersey, accompanied by his wife, visited the Beatty Organ Factory at Washington, New Jersey, on Tuesday last. He expressed himself not only gratified, but astonished, at the extent and activity of Mayor Beatty's organ works. The prejudice which every young business man has to confront, whose success is rapidly achieved, is giving away before Mayor Beatty, and his wonderful business capacity is coming to be generally recognized and acknowledged."

We clip the following editorial from last week's Christian at Work: "Hon. Daniel F. Beatty, whose indefatigable pluck has raised him from a poor boy to a reputed fortune of half a million, is an example of what can be done by fair dealing and persistent effort. He has the largest organ factory in the country, and makes from 50 to 60 instruments daily."

**Daniel in the Den of Lions.**—This is a Specimen Engraving, size for frame 9x12 inches. Postpaid free for the names and addresses of 25 persons, (male or female.) Another present of equal value will also be sent in the same package. Address 17\* **Studio of S. Swayne, Rochester, N. H.**

## SMALL FRUIT PLANTS.

All the leading varieties of Small Fruits, both old and new, at reasonable rates. New Illustrated Catalogue free. Address **IRVING ALLEN, Springfield, Mass.**

**50** Elegant Chromo Cards no 2 alike with name, 10c. Agents wanted. J. F. Mader & Co., Chillicothe, Ohio.

**100** Chromo Advertising Cards no two alike, postpaid New York Card Co., 205 Grand St., N. Y. **25c**

**23 SONGS FREE** (with music,) for addresses of 5 musicians: 36p. Illus. Catalogue free. **HOLCOMB MUSIC CO., Cleveland, O.**

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Corn, Coal, and Lime Bushels, Half-Bushels, and all the Smaller Sizes. Your Grocerymen ought to have them. For Sale by the leading hardware houses. Send for Circulars and Price Lists. Address **STITES & CO., Manufacturers, 1590 Eastern Avenue, Cincinnati, O.**



**Advertisements.**

*We aim to publish the advertisements of trustworthy parties only and such as we feel assured will deal fairly with their customers. In writing to them please mention SEED-TIME AND HARVEST.*

**A WORD TO THE  
Young People!**

A good autograph album, in the eyes of sensible people, shows good sense, taste, and refinement on the part of the owner, while a poor one reveals a lack of these qualities.

We have just purchased from a New York Manufacturing Stationer, an immense stock of A No. 1, First-Class Autograph Albums. The party was compelled to turn his stock into cash or collapse, and we therefore secured an immense bargain, and are enabled to sell them at less than cost of manufacture.

The Album we will now offer, is 7½ inches long, 5 inches wide, and about 5⁄8 of an inch thick; and contains over 60 leaves, —120 pages—, of the finest gold edged, translucent writing paper, superbly bound in the finest Russia leather, with convex covers; highly embellished with raised flowers, buds, leaves and scrolls in genuine gold and silver leaf; in all, it is one of the handsomest and best Autograph Albums yet made, and is far superior to those generally sold for from \$2.75 to \$3.50 each. The demand for this style and quality of Autograph Albums has kept the price beyond the reach of the majority of the young people. We have also secured a large number of copies of the "Album Writer's Assistant" or over 300 choice selections for Autograph Albums. It is neatly bound and is an invaluable book. We will offer it for sale with the Autograph Album at the following prices:

- One Album and one Assistant..... \$1.25
- One Album without Assistant..... 1.00
- One Assistant..... 30

Or send us a club of three Albums and Assistants and \$3.75, and we will send you an Album and Assistant for your trouble. We guarantee them to correspond exactly with the description, and if not satisfactory, we will refund the money. Address,

INDUSTRIAL WORKS,  
16— NEW PHILADELPHIA, O.

**Seed-Time and Harvest  
BUSINESS DIRECTORY.**

Cards for all kinds of business pertaining to Agriculture or Horticulture will be inserted in this Directory and a copy of SEED-TIME AND HARVEST included for \$2 00 per year, always in advance. Your order is solicited.

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**SEEDS—Flower and Vegetable.**

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**SMALL FRUIT PLANTS.**

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Irving Allen, Springfield, Mass.

H. S. Anderson, Union Springs, N. Y. 23

R. H. Haines, Moorestown, Burlington Co., N. J.

**SHEEP.**

**SOUTHDOWNS.**

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**SWINE.**

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WAGON SCALES \$60**

All Iron and Steel, Brass Ton Beam. Jones he pays the freight. All sizes equally low, for free book, address

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**I CURE FITS!**

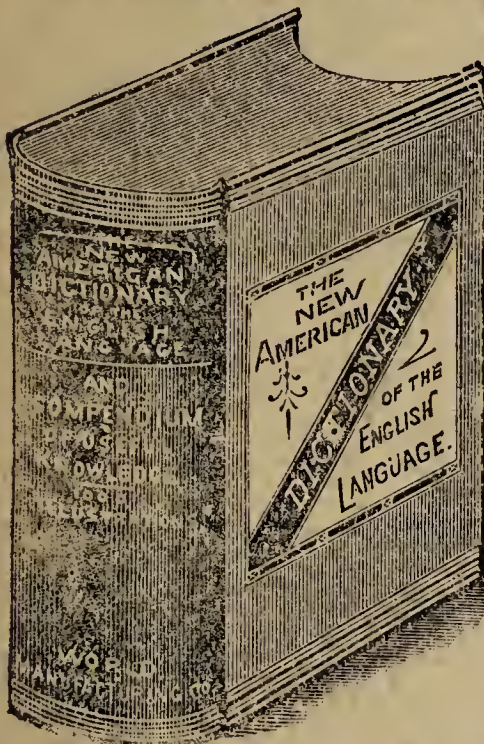
When I say cure I do not mean merely to stop them for a time and then have them return again, I mean a radical cure. I have made the disease of FITS, EPILEPSY or FALLING SICKNESS a life-long study. I warrant my remedy to cure the worst cases. Because others have failed is no reason for not now receiving a cure. Send at once for a treatise and a Free Bottle of my infallible remedy. Give Express and Post Office. It costs you nothing for a trial, and I will cure you. Address Dr. H. G. ROOT, 183 Pearl St., New York.

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than any other book of the kind ever published. This useful and elegant volume is a Library and Encyclopedia of general knowledge, as well as the best Dictionary in the world. Superbly bound in cloth and gilt. No pocket affair, but a large volume. It contains every useful word in the English language, with its true meaning, derivation, spelling and pronunciation, and a vast amount of absolutely necessary information upon Science, Mythology, Biography, American History, insolvent land and interest laws, etc., being a **Perfect Library of Reference.** Webster's Dictionary costs \$9.00 and the New American Dictionary costs only \$1.00.



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Office of the Auditor of the Treasury, Post Office Department,  
World Manuf'g Co., Washington, D. C., Jan. 29, 1883.

The New American Dictionary ordered January 15 at hand. I obtained fourteen subscribers in about as many minutes last Saturday, and find the Post Office department is a good field to work in. The book proves to be just the thing for office use. I have many more promised, and will send another larger order. Send the silver Watch as premium for this club.

[HUNDREDS OF TESTIMONIALS LIKE THE ABOVE]

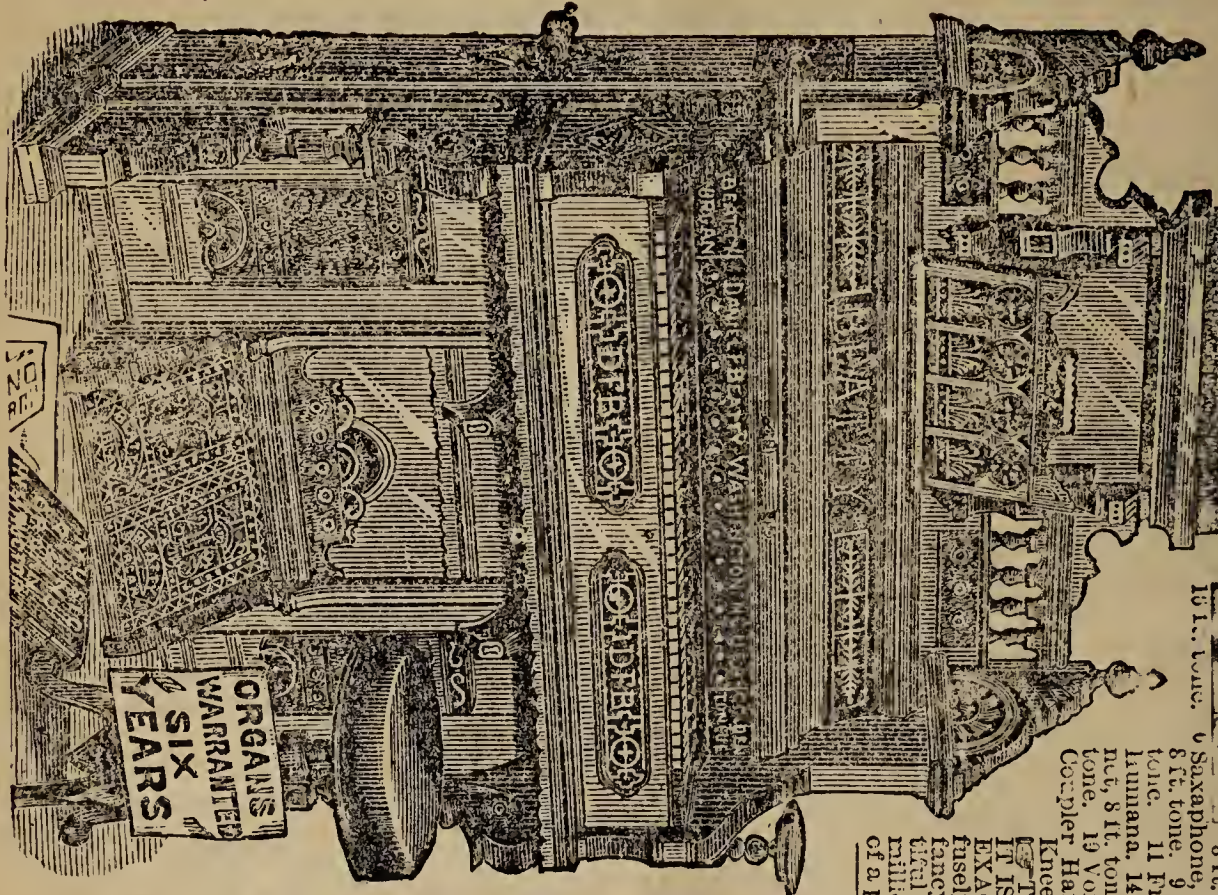
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*If you will remit me \$51 and the annexed Coupon within 10 days from the date hereof, I will box and ship you this Organ, with Organ Bench, Book, etc., exactly the same as I sell for \$85. You should order it immediately, and in no case later than 10 days. One year's test trial given and a full warrantee for Six years. Given under my Hand and Seal this*



**20 day of MAR. 1903.**

*Daniel F. Beatty,*

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**FREIGHT PREPAID.**

As a further inducement for you, I provided you order immediately, within the 10 days, I agree to prepay freight on the above organ to your nearest railroad freight station, any point east of the Mississippi River, or that far on any point west of it. This is a rare opportunity to place an instrument as it were at your very door, all freight prepaid at manufacturer's wholesale prices. Order now; nothing saved by correspondence. Enclosed find \$51.00 for Organ. I have read your statement in this advertisement and I order one on condition that it must prove exactly as represented in this advertisement, or I shall return it at the end of one year's use and demand the return of my money, with interest from the very moment I forwarded it, at six per cent, according to your offer. Be very particular to give Name, Post Office, County, State, Freight Station, and on what Railroad. Be sure to remit by Bank Draft, P. O. Money Order, Registered Letter, Express Prepaid, or by Bank Check. You may accept by telegraph on last day and remit by mail on that day, which will secure this special offer. I desire this magnificent instrument introduced without delay, hence this special price. PROVIDING ORDER IS GIVEN IMMEDIATELY

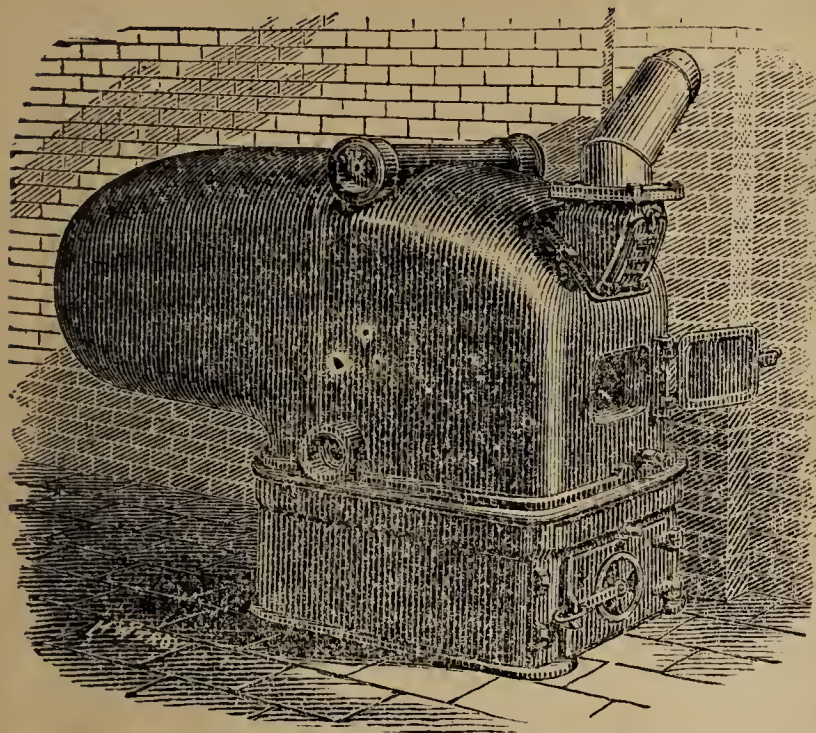
**HOW TO ORDER.** I have read your statement in this advertisement and I order one on condition that it must prove exactly as represented in this advertisement, or I shall return it at the end of one year's use and demand the return of my money, with interest from the very moment I forwarded it, at six per cent, according to your offer. Be very particular to give Name, Post Office, County, State, Freight Station, and on what Railroad. Be sure to remit by Bank Draft, P. O. Money Order, Registered Letter, Express Prepaid, or by Bank Check. You may accept by telegraph on last day and remit by mail on that day, which will secure this special offer. I desire this magnificent instrument introduced without delay, hence this special price. PROVIDING ORDER IS GIVEN IMMEDIATELY

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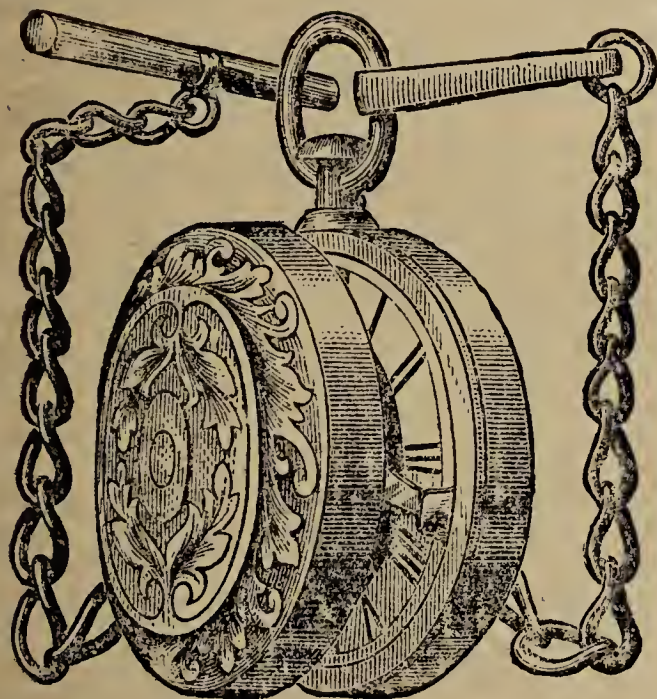
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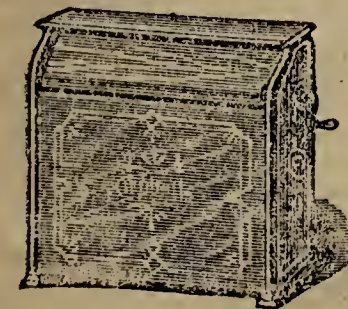
The price of our weekly publication, **THE GOLDEN ARGOSY**, is \$1.75 Yearly; \$1.00 for Six Months; or 50 Cents for a trial Three Months. Now, if you will send us 50 cents for a trial three months' subscription, we will send you the Solar Watch absolutely free! Of course, we lose money by doing this, but we believe you will be so much pleased with **THE ARGOSY** that you will continue your subscription for a year or more. The Solar Watch is the latest wonder. It will denote the time accurately, and can never get out of order. It consists of a compass (worth alone more than 50 cents), a dial and indicator. The instrument, being pointed due north, the exact time is infallibly given. For Boys, it is just as good as a \$15 watch; for Travelers, it is, in some respects, better, as it always gives the exact time of the place they are in; for Sportsmen, it is invaluable and indispensable; for School Teachers, it is a valuable addition to their scientific instruments. The Solar Watch can be carried in the vest pocket, is instantly adjusted, and will denote the exact time. Boys, just think of it! A Watch and Thirteen Numbers of **THE ARGOSY** for 50 cents! Every statement guaranteed or money refunded. This is no humbug, and the Solar Watch will do just what we say. It is not a toy; it is a Wonderful Instrument, made on scientific principles, accurate and reliable. The Compass is absolutely correct, and is enclosed in a beautiful nickel case. In order to introduce our elegantly illustrated youths' paper, **The Golden Argosy**, we will send you the same on trial three months, and the Solar Watch FREE! If you will send us 50 cents to pay postage and packing expenses. Send five subscriptions and \$2.50 and we will give yours FREE. Postage stamps taken. Address

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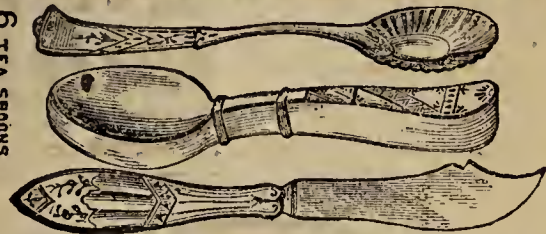
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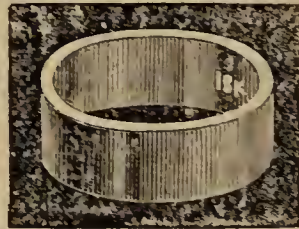
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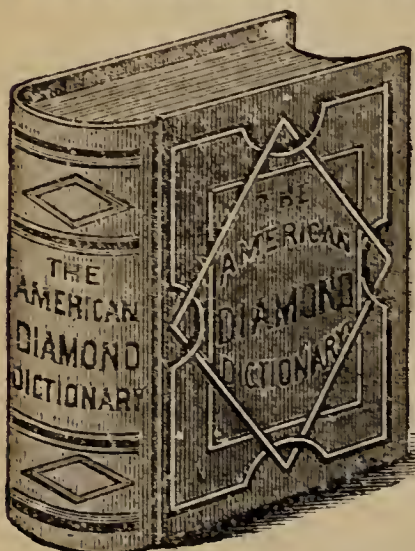
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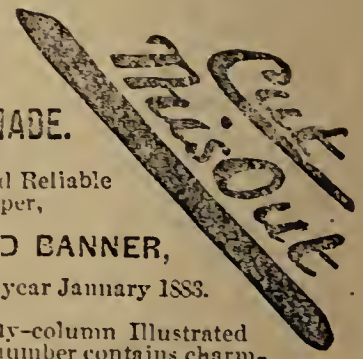
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Skillman's Netted .....	05	10	1.25
Improved Yellow Cantaloupe	05	10	1.25
Green Citron.....	05	10	1.25
Pine Apple .....	05	10	1.25
Jenny Lind.....	05	10	1.25
Surprise, New, .....	05	15	2.00
Bay View, New,.....	05	15	2.00
Montreal Green Nutmeg, New,	05	20	3.00
Netted Gem .....	05	20	3.00
Hackensack .....	05	10	2.00
Christiana Orange .....	05	10	2.00
Above Varieties Mixed.....	05	10	1.50
<b>Water Melon.</b>			
The "Boss," New, .....	05	20	3.00
Japan Sculptured-Seeded .....	05	20	3.00
Cuban Queen, New.....	05	20	3.00
Phinney's Early .....	05	10	1.25
Striped Gipsev.....	05	10	1.25
Ice Cream .....	05	10	1.25
Mountain Sweet .....	05	10	1.25
Ferry's Peerless .....	05	10	1.25
Citron. (for preserving,) .....	05	10	1.25
Above Varieties Mixed.....	05	10	1.25
<b>Mustard.</b>			
White French.....	05	05	60
Black American .....	05	05	60
<b>Onion.</b>			
Southport Yellow Globe, New,	05	25	4.00
Southport Red Globe, fine,....	05	25	4.00
Early Red Globe.....	05	20	2.00
Yellow Danvers.....	05	15	1.60
Red Wethersfield .....	05	20	2.00
Large Yellow Dutch.....	05	15	1.50
White Globe .....	05	25	4.00
White Portugal.....	05	20	2.00
New Queen .....	05	25	4.00
White Italian Tripoli.....	05	20	3.00
Giant Rocca.....	05	20	3.00
<b>Parsnip.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>
Smooth Hollow Crowned .....	05	10	.75
Early Round .....	05	10	.75
New Maltese .....	05	10	1.00
<b>Parsley.</b>			
Extra Fine Curled .....	05	15	2.00
<b>Pepper.</b>			
<b>New Golden Dawn</b> .....	15		
Sweet Bell or Bull Nose.....	10	25	4.00
Large Sweet Mountain.....	10	25	4.00
Red Cayenne .....	10	25	4.00
Spanish Monstrous (New) .....	10	40	

	<i>Pkt.</i>	<i>Oz.</i>	<i>Lb.</i>		
<b>Pumpkin.</b>					
Large Cheese.....	05	10	.85		
Sugar. (Fine for pies,).....	05	20			
Connecticut Field .....	05	05	.45		
<b>Radishes.</b>					
Early Scarlet Turnip .....	05	10	1.00		
Early White Turnip .....	05	10	1.00		
Long Scarlet Short-Top.....	05	10	1.00		
Early Scarlet Olive .....	05	10	1.00		
French Breakfast.....	05	10	1.00		
Grey Summer Turnip.....	05	10	1.50		
Golden Yellow Summer (New)	05	10	1.50		
Summer Varieties Mixed....	05	10	1.25		
China Rose Winter .....	05	10	1.00		
Black Spanish Winter .....	05	10	1.00		
California Mammoth White..	05	15	2.00		
Winter varieties Mixed .....	05	10	1.50		
<b>Rhubarb.</b>					
Linnæus .....	05	10	1.60		
<b>Salsify, or Vegetable Oyster.</b>					
White French .....	05	15	2.00		
<b>Spinach.</b>					
Round Leaved .....	05	05	0.50		
Monstrous Viroflay .....	05	10	1.00		
<b>Squash.</b>					
Low's Essex Hybrid, New,....	10	15	2.50		
Early White Bush .....	05	10	1.00		
Summer Crookneck .....	05	10	1.00		
Hubbard .....	05	10	1.25		
Marblehead .....	05	10	1.25		
Butman. ....	05	10	1.25		
Mammoth .. .....	10	30			
<b>Tobacco.</b>					
Connecticut Seed Leaf.....	10	30			
Kentucky Broad Leaf.....	10	30			
<b>Tomato.</b>	<i>Pkt.</i>	<i>Hf.-Oz.</i>	<i>Oz.</i>		
Livingston's Favorite, New,	20				
President Garfield, New,.....	10				
Essex Hybrid, New.....	10	.30	.60		
Ford's Alpha, New, .....	10	.30	.60		
Acme, .....	05	.20	.40		
Mayflower, New, .....	10	.30	.60		
Red Currant .....	05	.25	.50		
Paragon .....	05	.25	.50		
Canada Victor .....	05	.15	.30		
Conqueror .....	05	.15	.30		
Livingston's Perfection, ....	05	.30	.60		
Trophy .....	05	.15	.30		
Island Beauty.....	05	.30	.60		
Green Gage .....	05	.15	.30		
Golden Rural, New,....	05	.20	.40		
Saint Paul, (New) .....	10	.30	.60		
Above Varieties Mixed .....	05	.20	.40		
<b>Turnip.</b>					
New White Egg,.....	05	10	1.25		
Early White Dutch.....	05	10	.80		
Purple Top Strap Leaf.....	05	10	.80		
Long White Cow Horn .....	05	10	.80		
Large White Globe.....	05	10	.80		
Yellow Aberdeen .....	05	10	.80		
Yellow Globe .....	05	10	.80		
Golden Ball.....	05	10	.80		
Above Varieties Mixed.....	05	10	.80		
<b>Rutabaga, or Swede Turnip.</b>					
White French, or Sw't German	05	10	80		
Skirving's Purple Top Yellow	05	10	80		
Brill's American Yellow .....	05	10	80		
Shamrock Swede, Yellow.....	05	10	80		
Above Varieties Mixed.....	05	10	80		
<b>Herb Seeds.</b>	<i>Pkt.</i>	<i>Oz.</i>	<i>Pkt.</i>	<i>Oz.</i>	
Coriander .....	05	.20	Dill.....	05	.25
Horehound.....	10	50	Sage .....	05	20
Summer Savory... ..	10	30	Saffron....	05	25
Sweet Marjoram.. ..	10	40	Lavender .	10	30
Caraway .....	05	15	Sweet Basil	10	40
Sweet Fennel.....	05	20	Thyme....	10	50
Send orders to	<b>Isaac F. Tillinghast,</b>				
	<b>La Plume, Lack'a Co., Pa.</b>				



## Choice Flower Seeds.

The following Select List of Flower Seeds comprises the most beautiful varieties in cultivation.

They are all Fresh and New being imported by us from the largest floral establishments in France and Germany. We have no doubt they are, in every way, as good and valuable as those offered by many city dealers at, in some instances, four times our prices. Our aim is to put them at the lowest possible prices for the purpose of introducing them to new customers. Please favor us with a trial order.

### ANNUALS.

- |  |      |
|--|------|
| <b>Abronia.</b> Half-hardy trailing plants.            | Pkt. |
| 1 Arenaria, pure waxy yellow flowers                   | 10   |
| 2 Umbellata, rosy lilac, white eye                     | 5    |
| <b>Adonis.</b> Known as Pheasant's eye.                |      |
| 3 Æstivalis, brilliant scarlet                         | 5    |
| 4 Autumnalis, flowers dark blood-red                   | 5    |
| <b>Ageratum.</b> Splendid for summer and winter.       |      |
| 5 Improved Dwarf, white and blue mixed                 | 5    |
| 6 Mexicanum, blue, nice for bouquets                   | 5    |
| 7 Album, same as above only white                      | 5    |
| <b>Alyssum.</b> Beautiful for beds, pots, or bouquets. |      |
| 8 Sweet, small white, very fragrant                    | 5    |
| <b>Amaranthus.</b> A fine hardy foliage plant.         |      |
| 9 Bicolor, leaves crimson and green                    | 5    |
| 10 Caudatus. "Love lies bleeding."                     | 5    |
| 11 Cruentus. "Prince's Feather" erect blood-red        | 5    |
| 12 Salicifolius. Pyramidal; brilliant; beautiful       | 5    |
| 13 Tricolor. "Joseph's Coat" red and green             | 5    |
| 14 Pyramidalis, beautiful large variety                | 5    |
| 15 Above six varieties mixed                           | 5    |
| <b>Antirrhinum.</b> ( <i>Snapdragon.</i> )             |      |
| 16 Atrosanguinea, dark blood-red                       | 5    |
| 17 Carvophylloides, irregularly striped                | 5    |
| 18 Delila, fine carmine, white throat                  | 5    |
| 19 Firefly, orange and scarlet, white throat           | 5    |
| 20 Galathe, large crimson, white throat                | 5    |
| 21 Luteum, clear yellow, fine                          | 5    |
| 22 Majus, Flore-Alba, pure white                       | 5    |
| 23 Papillionaceum, blood-red, white throat             | 5    |
| 24 Strlatum, striped, bright colors mixed              | 5    |
| 25 Tom Thumb, very dwarf mixed colors                  | 5    |
| 26 Fine Mixture of the above                           | 5    |
| <b>Angelonia.</b> Very pretty decorative plant.        |      |
| 27 Grandiflora, violet blue, sweet scented             | 10   |
| <b>Asperula.</b> Hardy, perfuse bloomer                |      |
| 28 Odorata, white fragrant flowers                     | 10   |
| <b>Aster.</b> Very popular and effective favorites.    |      |
| 29 Tall Chrysanthemum-flowered                         | 5    |
| 30 Diamond, dwarf imbricated Pompon                    | 10   |
| 31 Dwarf Pyramidal Bouquet, very early                 | 10   |
| 32 Giant Emperor, very large, handsome                 | 10   |
| 33 Hedge-hog or Needle, long quilled petals            | 10   |
| 34 Imbrique Pompon, twelve colors mixed                | 10   |
| 35 La Superbe, pæony-flowered perfection               | 10   |
| 36 New Chrysanthemum-flowered, dwarf                   | 10   |
| 37 New Pæony-flowered Globe, very large                | 10   |
| 38 New Schiller, very fine late dwarf                  | 10   |
| 39 Pyramidal-flowered German, branishing               | 10   |
| 40 Shakespeare, beautiful, large-flowering             | 10   |
| 41 Truffant's Pæony-flowered, perfection mixed         | 10   |

- |  |    |
|--|----|
| 42 Victoria, globe imbricated, mixed colors  | 10 |
| 43 Washington, new, the largest of all   | 10 |
| 44 Quilled German, twenty varieties mixed  | 5  |
| 45 Reid's Improved Quilled, twelve sorts mixed                                     | 5  |
| 46 Globe Flowered German, twelve colors mixed                                      | 5  |
| 47 Dwarf German, twelve varieties mixed  | 5  |
| 48 Fine Mixture of all the above Asters  | 10 |
| <b>Balsam.</b> ( <i>Impatiens.</i> ) ( <i>Lady Slipper.</i> )                      |    |
| 50 Camellia-flowered, mixed, very double   | 10 |
| 51 Camellia-flowered, white, beautiful   | 10 |
| 52 Camellia-flowered, spotted, German dou, mixed                                   | 10 |
| 53 Carnation, fine double striped  | 10 |
| 54 Double French, scarlet spotted, very fine                                       | 10 |
| 55 Fine Mixture of all the above   | 10 |
| <b>Bellis Perennis.</b> Double Daisy   |    |
| 56 Flore Pleno, white and rose mixed   | 10 |
| <b>Browallia.</b> Handsome profuse bloomer.  |    |
| 57 Elata Alba, white   | 5  |
| 58 Elata Grandiflora, fine blue  | 4  |
| <b>Cacalia.</b> Hardy annual, fine for cut-flowers.                                |    |
| 59 Coccinea, scarlet   | 5  |
| 60 Coccinea Flore Luteo, yellow  | 5  |
| <b>Calendula.</b> ( <i>Cape Marigold.</i> )  |    |
| 61 Fine Mixed, colors  | 5  |
| <b>Campanula.</b> Hardy free-flowering annual.                                     |    |
| 62 Speculum, rose, white and blue mixed  | 5  |
| <b>Candytuft.</b> ( <i>Iberis.</i> ) Hardy annual.                                 |    |
| 63 New Dwarf White,  | 10 |
| 64 Sweet-scented, white, purple, lilac, etc. mixed                                 | 5  |
| <b>Canna.</b> ( <i>Indian Shot.</i> ) Beautiful foliage,                           |    |
| 65 Dwarf and Tall, mixed colors  | 5  |
| <b>Celosia.</b> ( <i>Cock's Comb.</i> ) Showy bedding plant,                       |    |
| 66 Dwarf Feathered, splendid scarlet   | 5  |
| 67 Cristata, best tall varieties mixed   | 5  |
| 68 Cristata, best dwarf varieties mixed  | 5  |
| <b>Centaurea.</b> ( <i>Dusty Miller.</i> ) Elegant foliage.                        |    |
| 69 Gymnocarpa, white leaved  | 5  |
| 70 Suaveoleus, ( <i>Sweet Sultan.</i> ) Yellow                                     | 5  |
| 71 Cyanus, ( <i>Blue Bottle.</i> ) Mixed   | 5  |
| <b>Clarkia.</b> Suffers in hot dry weather.  |    |
| 72 Double, rich magenta colors   | 5  |
| 73 Pulchella, best colors mixed  | 5  |
| <b>Convolvulus.</b> ( <i>Minor.</i> ) Dwarf trailing plants.                       |    |
| 74 White, violet, lilac and purple mixed   | 5  |
| <b>Datura.</b> Blooms first season, roots may be kept over winter same as Dahlias. |    |
| 75 Fastuosa, Alba Pleno, fine double white   | 5  |
| 76 Humills, Flava Flore-Pleno, double yellow                                       | 5  |
| 77 Wrightii, large tinted white, sweet-scented                                     | 5  |
| <b>Delphinium.</b> ( <i>Annual Larkspur.</i> ) Sow early.                          |    |
| 78 Formosum, finest blue flower known  | 5  |
| 79 Dwarf German Rocket, double mixed   | 5  |
| 80 Tall German Rocket, double mixed  | 5  |
| 81 Imperial Branching, double mixed  | 5  |
| 82 Hybrid, Extra fine mixed varieties  | 5  |
| <b>Dianthus.</b> Magnificent and constant bloomers                                 |    |
| 83 Chlnensis, double extra fine mixed  | 10 |
| 84 Chinensis, Flore-Alba Pleno, double white                                       | 10 |
| 85 Heddewigii, very large, single finely marbled                                   | 10 |
| 86 Diadematus, flore-pleno, Diadem Pink  | 10 |
| 87 Heddewigii, flore-pleno, fine double  | 10 |
| 88 Imperialis, purple striped, fine  | 10 |
| 89 Imperialis Atro-sanguineus, double blood-red                                    | 10 |
| 90 Imperialis Alba-Pleno, fine double white  | 10 |
| 91 Imperialis Flore-Pleno, fine double mixed                                       | 10 |



# SEED-TIME AND HARVEST.

92	Laciniatus, large single fringed, mixed	10	<b>Pyrethrum.</b> ( <i>Feverfew.</i> )	
93	Lachnatus Flore-Pleno, very large double, mixed	10	142 Aureum, fine foliage plant for borders	10
<b>Helianthus.</b> (Sunflower.)			<b>Ricinus.</b> Stately, tropical looking plant	
94	Californicus, very large double	5	143 Sanguineus, blood-red stalks, ten feet high	5
95	Globosus Fistulosus, large double orange	5	144 Borbonensis, magnificent, fifteen feet high	10
96	Mammoth Russian, the largest, single	5	145 Communis, (Castor Oil Bean,) six feet	5
<b>Lobelia.</b> Exceedingly beautiful,			<b>Salvia.</b> ( <i>Flowering Sage.</i> )	
97	Alba-Pura Compacta, new white	5	146 Splendens, scarlet, fine	5
98	Erlinus, deep blue, six inches high	5	147 Coccinea, elegant bedding plant	5
99	Crystal Palace, deep blue, with white eye	5	<b>Scabiosa.</b> ( <i>Mourning Bride.</i> )	
100	Gracilis Erecta, bicolor, compact	5	148 Major, large varieties, mixed	5
101	Hybrid Grandiflora, superba	5	149 Minor, dwarf double mixed	5
102	Fine Mixture of above varieties	5	<b>Sensitive Plant.</b> ( <i>Mimosa.</i> )	
<b>Mesembrianthemum.</b>			150 Pudica, leaves close when touched	5
103	Crystallinum, (Ice Plant,) white	5	<b>Stocks, Ten Weeks.</b> ( <i>Mathiola annua.</i> )	
<b>Mignonette.</b> (Reseda,)			151 Emperor, or Perpetual, free blooming	10
104	New Hybrid Spyral, finest dwarf	5	152 New German, large flowering mixed	10
105	Odorata, sweet-scented, (25 cts. per oz.)	5	<b>Tropaeolum.</b> Popular bedding plants.	
106	New White, very large and showy	5	153 Dwarf, varieties mixed	5
107	Ameliorata grandiflora, large flowering	5	<b>Verbena.</b> A well-known and universal favorite.	
108	Pyramidal, large-flowering sweet	5	154 Cœrula, dark blue	10
<b>Minulus.</b> Fine for small beds windows, etc.			155 Defiance, brilliant scarlet	10
109	Cardinals, fine scarlet	10	156 Italian Striped, large and fine	10
110	Hybridus Tigrinus, beautifully spotted	10	157 Snow White, extra select	10
111	Moschatus, (Musk Plant.)	10	158 Hybrida, best varieties mixed	10
112	Tillingii, new and elegant	10	<b>Vinca.</b> ( <i>Periwinkle.</i> )	
<b>Marvel of Peru.</b> ( <i>Mirabilis.</i> )			159 Rosea, from East Indies	5
113	Hybrid, fine mixed	5	160 Rosea Alba, white crimson eye	5
<b>Myosotis.</b> Perennial, bloom first season			161 Alba, pure white, fine for florists use	5
114	Forget-me-not, common	5	162 Mixed colors	5
115	Alpestris, rose and white mixed	6	<b>Zinnia.</b> The finest varieties in cultivation	
116	Elegantissima, mixed colors	5	163 Elegans Alba, pure white, double	5
<b>Nemophila.</b>			164 Elegans, extra double, mixed	5
117	Insignis, blue, and maculata, white, mixed	5	165 Dwarf, double, mixed	5
<b>Pansy.</b> (Heartsease.)			<b>Green House and Florists' Flowers.</b>	
118	Emperor William, large ultramarine blue	10	All these seeds are delicate and must be treated	
119	Faust, or King of the Blacks, coal black	10	with great care, and several sowings ought to be	
120	New Striped, very showy	10	made at different times. Cover the seeds lightly	
121	Perfection, extra large mixed colors	5	with fine soil.	
122	Pure White, beautiful and true	10	<b>Abutilon.</b>	Pkt.
123	Azure Blue, large and extra fine	10	170 New varieties, mixed colors	20
124	Pure Yellow, generally true to color	10	<b>Alsophylla.</b>	
125	Extra large-flowering, mixed colors	5	171 Australis, handsome Tree Fern	10
<b>Peas, Sweet, plants of delightful fragrance.</b>			<b>Balsam.</b>	
126	Best colors mixed, (Per oz. 15 cts.)	5	172 Perfection, extra double white	10
<b>Petunia.</b> Bloom early and profuse,			<b>Begonia.</b>	
127	Blotched and Striped, showy, mixed colors	5	173 Tuber-rooted, mixed colors, fine for pots	20
128	Countess of Ellsmere, dark rose, white throat	10	<b>Calceolaria Hybrida.</b>	
129	Grandiflora Alba, largest white	10	174 Best colors, fine for conservatory	20
130	Hybrid, extra fine mixed colors	5	<b>Carnation Remontant.</b>	
131	Hybrid double, extra choice	25	175 Best German Seed,	20
<b>Phlox Drummondii.</b> Most brilliant.			176 Double Mixed Piccotee,	20
132	Purest White, fine for cuttings	10	<b>Centaurea.</b>	
133	Grandiflora, large flowering mixed	5	177 Gymnocarpa, white leaved bedding plant	10
134	Leopoldi, rose with white eye, fine	10	<b>Cineraria Hybrida.</b>	
135	Radowitzii, deep rose and white	10	178 Maritima,	10
136	Scarlet Meteor, very brilliant	10	179 Candidissima,	10
137	Finest varieties mixed,	10	<b>Clematis.</b> Beautiful ornamental climber.	
<b>Poppy.</b> ( <i>Papaver.</i> ) Free growing, brilliant			180 White-flowering perennial, thirty feet high	10
138	Carnation, double, mixed	5	181 Mixed varieties	10
139	Finest single varieties, mixed	5	<b>Clianthus Dampieri.</b>	
<b>Portulaca.</b> Splendid for small beds.			182 Cholcest mixed	20
140	Grandiflora, double, mixed	10	<b>Cobœa.</b>	
141	Single, white, rose, scarlet, yellow, mixed	5	183 Scandens, best climber for house	10



# SEED-TIME AND HARVEST.

31

<b>Coleus.</b>	
184 In variety; newest varieties, mixed	20
<b>Cyclamen Persicum.</b>	
185 White, red and pink, mixed	15
<b>Cyperus.</b>	
186 Variegates, water plant, grows in pots	15
<b>Ferns.</b>	
187 Different varieties, mixed	15
<b>Geranium.</b>	
188 Zonale and Inquinans, mixed	16
<b>Glaucium.</b>	
189 Luteum, fine white foliage plant	5
<b>Gloxinia Hybrida.</b>	
190 Choice colors, mixed	15
<b>Heliotrope.</b>	
191 Sweet, mixed	10
<b>Ice Plant.</b>	
192 Mesembrianthemum, tricolor mixed	10
<b>Lantana.</b>	
193 Mixed colors	10
<b>Mignonette.</b>	
194 (104) New Spiral, best for pots	10
<b>Passion Flower.</b>	
195 Passiflora, mixed	10
<b>Petunia.</b>	
196 New Double Fringed, choicest	25
<b>Primula Sinensis.</b> ( <i>Chinese Primrose.</i> )	
197 Alba-Fimbriata, single, large, white	20
198 Rosea Fimbriata, light rose, fine	20
199 Atrocarminea Splendens, deep red	20
200 Above varieties mixed	20
<b>Yucca Filamentosa.</b> ( <i>Adams' Needle</i> )	
201 Finest California	5
<b>ORNAMENTAL CLIMBERS.</b>	
<b>Cobæa Scandens.</b> Climbing annual.	
205 Finest French seed	10
<b>Convolvulus.</b> ( <i>Morning Glory.</i> )	
206 Major, best mixed colors (20 cents per oz.)	5
<b>Courds.</b> ( <i>Ornamental.</i> )	
207 Seeds from many curious varieties mixed	5
<b>Ipomœa.</b> Magnificent for baskets, vases, etc.	
Coccinea, star, small scarlet flowers	5
209 Grandiflora Superba, sky blue with white border	5
210 Limbata Elegantissima, large and fine	5
211 Quamoclit, (Cypress Vine) mixed	5
<b>Loasa.</b> Flowers are very curious and handsome	
212 Vulcanica, very fine new variety	5
<b>Luffa.</b> ( <i>Dish-rag Plant.</i> )	
213 Amara	
<b>Maurandya.</b> Graceful climber, ten feet.	
214 White, rose and violet, mixed	10
<b>Peas, Flowering.</b>	
215 Finest colors mixed	5
<b>Phaseolus.</b> ( <i>Scarlet-runner.</i> )	
216 Mixed colors	5
<b>Thunbergia.</b> Beautiful half-hardy annual.	
217 Alata, yellow with dark eye	10
218 Aurantiaca, bright orange, dark eye	10
219 Bakeri, pure white, very fine	10
<b>Tropæolum.</b>	
220 Majus, finest mixed colors	5
221 Peregrinum, ( <i>Canary Bird Flower</i> ) fine yellow	10
<b>Everlasting Flowers and Grasses.</b>	
No collection of flowers is complete without a few	

*Immortelles* or Everlastings. They will brighten our rooms through the dreary winter when the Frost King has claimed our other favorites; and mingled with dry grasses and moss they make good substitutes for their more delicate sisters which have faded and gone. The flowers should be picked as soon as they expand, or a little before, and hung up in small bunches so that the stems will dry straight.

## FLOWERS.

<b>Acroc'inium.</b>	
225 Roseum, bright rose color	5
226 Album, pure white	5
227 Mixed colors	5
<b>Ammobium.</b>	
228 Alatum, beautiful star-like white	5
<b>Gomphrena.</b> (Globe Amaranth.)	
229 Pure White,	5
230 Bright Orange	5
231 Dark purplish-crimson	5
232 Striped and mixed colors	5
<b>Helichrysum.</b>	
233 Monstrosum, large, double mixed	6
<b>Helipterum.</b>	
234 Sanfordii, beautiful bright yellow	5
<b>Rodanthe.</b>	
235 Finest mixed varieties	5
<b>Xeranthemum.</b> Free blooming annuals 1 foot.	
236 Finest double white	5
237 Double, mixed colors	6

## GRASSES.

<b>Agrostis.</b> Elegant, fine and feathery	
238 Pulchella	5
239 Nebulosa	5
<b>Briza.</b> (Quaking Grass) very hardy	
240 Maxima, very elegant, one foot high	5
241 Gracellis	5
242 Orientalis	5
<b>Coix Lachyma.</b>	
243 Job's Tears, broad corn-like leaves	5
<b>Erianthus.</b>	
244 Ravennæ, resembles Pampas Grass	5
<b>Eulalia.</b>	
245 Japonica, new very ornamental	10
<b>Gynerium.</b> ( <i>Pampas Grass.</i> )	
246 Argenteum, makes elegant plumes	5
<b>Lagurus.</b> ( <i>Harestail Grass.</i> )	
247 Ovatus, dwarf, showy heads	5
<b>Stipa Pennata.</b>	
248 Feather Grass	5
<b>Squirrel Tail Grass.</b>	
249 Hordeum Jubatum	5

## CHOICE PERENNIALS.

These seeds produce plants which are hardy, will survive over winters and flower the second season, some early in spring, others in summer and autumn.

<b>Alyssum Saxatile.</b>	
250 Golden Yellow, ten inches high	5
<b>Aquilegia.</b> A highly interesting class.	
251 Twelve best varieties mixed	5
<b>Campanula.</b> Hardy free-blooming plants.	
252 Medium, (Canterbury Bell) large; blue	5
253 Medium, double, blue	5
254 Medium, double, white	5



# SEED-TIME AND HARVEST.

- Carnation.** (*Dianthus Caryophyllus*.)  
255 Grenadin, brilliant red 20
- Delphinium.**  
256 Formosum, brilliant blue, white eye 5
- Digitalis.** (Foxglove) useful border plants.  
257 Best varieties mixed 5
- Hollyhock.** (*Althea*.)  
258 Double, very fine, mixed colors 10
- Linum.** Fine foliage, beautiful flowers.  
259 Perenne, blue and white 5
- Oenothera.** [Perennial Evening Primrose,]  
260 Finest mixed colors 5
- Papaver.** [Perennial Poppy.]  
261 Bracteatum, scarlet, three feet long 5  
262 Croceum, large orange flowers 5
- Pentstemon.** Popular bedding plants.  
263 Best varieties mixed 10
- Phlox, Perennial.**  
264 Fine mixed colors 5
- Primula Elatior.** [Modern Cowslip.]  
265 Splendid mixed 5
- Pink.** Related to Carnation, but smaller  
266 Best double mixed colors, German seed 10
- Picotee.** The finest of the Carnation family.  
267 Double, finest German mixed 20
- Stock, Brompton.**  
268 White, violet and carmine, mixed 10
- Sweet William.** Hardy and easily grown.  
269 Perfection, best colors mixed 10
- Wall Flower.** Very fragrant and desirable.  
270 Bright Yellow 5  
271 Fine mixed colors 5  
272 Elegant Double, mixed 10
- "Wild Garden" Flower Seeds.**  
273 Over 200 choice varieties in one package 5

### Trial Collections.

To meet a popular demand and at the same time to give an inducement for every one who has a garden to order a trial package, we have put up some special collections at greatly reduced rates. These packages are made up in advance and *no changes whatever can be made in them.*

**Collection No. 1** contains Seventeen Packets of Vegetable Seeds, worth at list price \$1.25, one package each as follows:

- 1. Amber Cream Sweet Corn . . . . . 10 cts.
- 2. Crystal White Wax Bean . . . . . 10
- 3. Cabbage, 18 varieties mixed . . . . . 10
- 4. Beet, mixed table varieties . . . . . 5
- 5. Carrot, best varieties mixed, . . . . . 5
- 6. Cucumbers, " " . . . . . 5
- 7. Cauliflower, " " . . . . . 20
- 8. Turnip, " " . . . . . 5
- 9. Rutabaga, " " . . . . . 5
- 10. Onion, " " . . . . . 5
- 11. Lettuce, " " . . . . . 5
- 12. Radish, best early varieties mixed, . . . . . 5
- 13. Tomato, best " " . . . . . 5
- 14. Musk Melon, best " " . . . . . 5
- 15. Water Melon, " " " . . . . . 5
- 16. Spinach, round leaved, . . . . . 5
- 17. New Golden Dawn Mango, . . . . . 15

Collection No. 1, as above, 17 pkts., worth \$1.25, will be mailed to any address on receipt of 75 cents.

**Collection No. 2** consists of Ten Packets of choice annual Flower Seeds of our selection, among which will be Asters, Balsam, Pansy and Verbena, and a packet of "Wild Garden Flower Seeds." This collection of 10 packets by mail for 25 cents.

**Collection No. 3.** For \$1.00 we will send Collections No. 1 and 2, and one year's subscription to SEED-TIME AND HARVEST. This we call Collection No. 3, and we expect Ten Thousand Orders for it before April 1st.

**Collection No. 4.** Those who are already subscribers to SEED-TIME AND HARVEST or who do not wish to include a subscription with seed order, may, by sending \$1.00, select seeds in packets from our Vegetable or Flower Lists to the amount of \$1.25.

### Garden Implements.

The following garden implements will be sent from here or from the manufactory at Factory Prices:

Ruhlman's Wheel Hoe . . . . .	\$ 5.50
The New York Seed Drill . . . . .	12.00
Matthews' Seed Drill . . . . .	12.00
Matthews' Combined Drill and Cultivator . . . . .	15.00
PLANET JR. IMPLEMENTS.	
Combined Drill, Hoe and Cultivator, . . . . .	15.00
No. 2 Drill, . . . . .	12.00
Double Wheel Hoe, Cultivator and Plow, . . . . .	8.00
Single Wheel Hoe, . . . . .	6.00
Firefly Plow, . . . . .	4.00
Combined Horse Hoe and Cultivator, . . . . .	12.00

### Miscellaneous.

	Pkt.	Oz.	Lb.
Osage Orange Seeds . . . . .	05	10	75
Apple Seeds . . . . .	05	10	50
Tree Seeds, prices on application.			
Evergreen Broom Corn . . . . .	05	10	60
Early Amber Sugar Cane . . . . .	05	10	60
Rural Branching Sorghum . . . . .	05	10	60
Mammoth Russian Sunflower . . . . .		05	40
German Millet, [bu. on application,] . . . . .		05	50
Pearl Millet . . . . .	05	10	60
Potato Seeds from Wall's Orange 10			

**NOTICE.** Please do not order small quantities of varieties not named in our list. Should you, however want any considerable quantity of anything offered in any seedsman's catalogue, we can nearly always obtain it to advantage and will be pleased to quote prices on application. In case we cannot supply you we will endeavor to tell you where you can get what you want to best advantage.

### Seed Potatoes.

The pound prices include postage and free delivery by mail. In larger quantities they will be delivered to express or freight agents here to be transported at the expense of the purchaser.

	Lb.	Peck.	Bush.	Bbl.
Early Gem . . . . .	75			
Boston Market . . . . .	75			
Rural Blush . . . . .	75			
Hall's Early Peachblow . . . . .	75			
Rochester Favorite . . . . .	75			
Vick's Prize . . . . .	75			
Chicago Market . . . . .	75			
Baker's Imperial . . . . .	75			
Wells' Seedling . . . . .	75			
Jordan's Prolific . . . . .	75			
New Champion . . . . .	75			
Early Sunrise . . . . .	75			
Red Elephant . . . . .	75			
Rose's New Seedling . . . . .	50	1.00		
Brownell's Best . . . . .	.50	1.00	3.00	
Early Telephone . . . . .	50	1.00	3.00	
White Star . . . . .	.50	.75	2.50	
Cook's Superb . . . . .	50	.75	2.00	5.00
White Whipple . . . . .	.50	.75	2.00	5.00
Clark's No. 1 . . . . .	.50	.75	2.00	5.00
The "Belle," . . . . .	.50	.75	2.00	5.00
White Elephant . . . . .	.50	.75	1.50	4.00
E. Beauty of Hebron . . . . .	50	.75	1.50	4.00
Pride of America . . . . .	50	.75	1.50	4.00
<b>Wall's Orange</b> . . . . .	50	2.00	6.00	15.00

**Special Offer.** Four pounds from the above list, your selection, one or more varieties, will be sent by mail for \$2.00; or by express for \$1.00. You may take four pounds of any one variety, or one lb. each of any four, or two each of two, &c.

**Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.**





I have over 1500 electrotypes of fruits, flowers, vegetables, ornamental cuts etc., for sale cheap. Illustrated book, showing every cut, 25 cents, (deducted off first order.) Send prints of, or write for any cut that you want. **A. BLANC**, 314 N. 11th St., PHILADELPHIA, PA. Engraver for Florists, Seedsmen and Nurserymen. 16tf



**FISK'S AUTOMATIC SEED PLANTER**  
PLANTS WITH THE PRECISION OF A HOE. All the ground a person can walk over in a day. **The EASIEST to Handle and the FASTEST HAND PLANTER IN USE.**

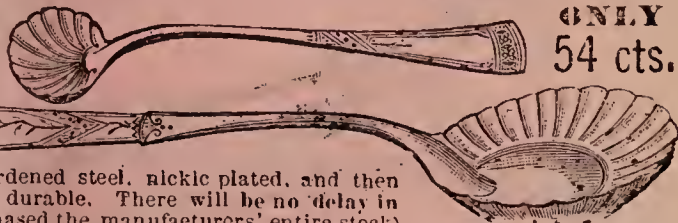
Every Planter fully warranted and satisfaction guaranteed. Inducements on Sample this season. Send for Circular. **WALLACE FISK**, 12— South Byron, Genesee Co., N. Y.

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**SUBSCRIBE FOR THE PRACTICAL FARMER READ THE TESTIMONY OF ITS LIFE-LONG READERS**

Have taken "Practical Farmer" 27 years. It is one of the best agricultural weeklies.—A. SCOTT, Del. Co., Pa. Been a subscriber for 25 years, find it a pleasant and helpful visitor.—C. W. GETZ, Manoa, Pa. The second paper I read on list of seven, been taking it many years. Like it!—D. B. LASHAW, Vincent, Pa. Enclosed find subscription for my 18th year.—A. H. CARRY, Camden, Del. Have taken "Farmer" 26 years. Consider it indispensable in every farmer's family.—J. W. COORAK, Whitesburg, Del. Samples of letters received daily, showing the high esteem in which the paper is held. The **Practical Farmer** (Estab'd 1855), is a 16 page, 64 column weekly, laden with good things concerning Agriculture, the Garden, Horticulture, Live Stock, the Apiary, etc. Its "Family Circle," "Youth's," "Household," and "Hygiene" departments contain the ripest thoughts of well-known writers. Everything pervasive of pure morality is excluded from its columns. Its complete market reports keep the farmer posted on current prices of farm products. **The paper PAR EXCELLENCE for all engaged in rural pursuits.**

To enable you to become its practical friend, as thousands have already done, we offer to send it on trial for six months, **26 weeks**, and make you a free gift of a beautiful sugar and salt spoon, per illustration, on receipt of **54 cts.** (in 3-ct. postage stamps) (the 4 cts. above the subscription being the exact cost of packing and mailing the spoons). These goods have been secured after much patient hunt, in order to give our readers something of intrinsic worth. Made on a base of hardened steel, nickel plated, and then heavily plated with pure coin silver, they are alike attractive and durable. There will be no delay in sending off these premiums, we have them on hand (having purchased the manufacturers' entire stock) and want you to have them. The **PRACTICAL FARMER** is now in its 28th year, and its publishers have earned an enviable reputation for promptness and reliability in dealing with its patrons. A paper that can hold its subscribers for over twenty-five years, must possess high character and its publishers be thoroughly responsible. It has never made a promise to its subscribers which it has not promptly fulfilled. Four neighbors may club and remit money order for \$2, and spoons (four set) will be sent with paper 6 months to each. This advertisement may not appear again. Address, **THE FARMER CO., Philadelphia, Pa.**



**ONLY 54 cts.**

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"I am the originator of the **James Vick Strawberry**. It is now being offered to the public for the first time through **Green's Nurseries, Rochester, N. Y.** Mr. Green has shown what the seedling is worth. It will bear more good sized handsome berries than any other strawberry I ever saw."—**SAMUEL MILLER**. "Better than Manchester."—**JOSIAH SALTER**. "The most promising of all the new ones I have tested."—**Ex-Pres't. W. C. BARRY**.

Send for **FRUIT Catalogue** telling about this great Strawberry, and **Souhegan, Shaffer's Colossal, Lost Rubies, Tyler, Gregg** and other raspberries and fruits, with **Hints on Fruit Culture**, and sample copy of **FRUIT GROWER'S JOURNAL**. All free to those applying to **GREEN'S NURSERIES, Rochester, N. Y.**



# DARNELL'S PATENT FURROWER AND MARKER.

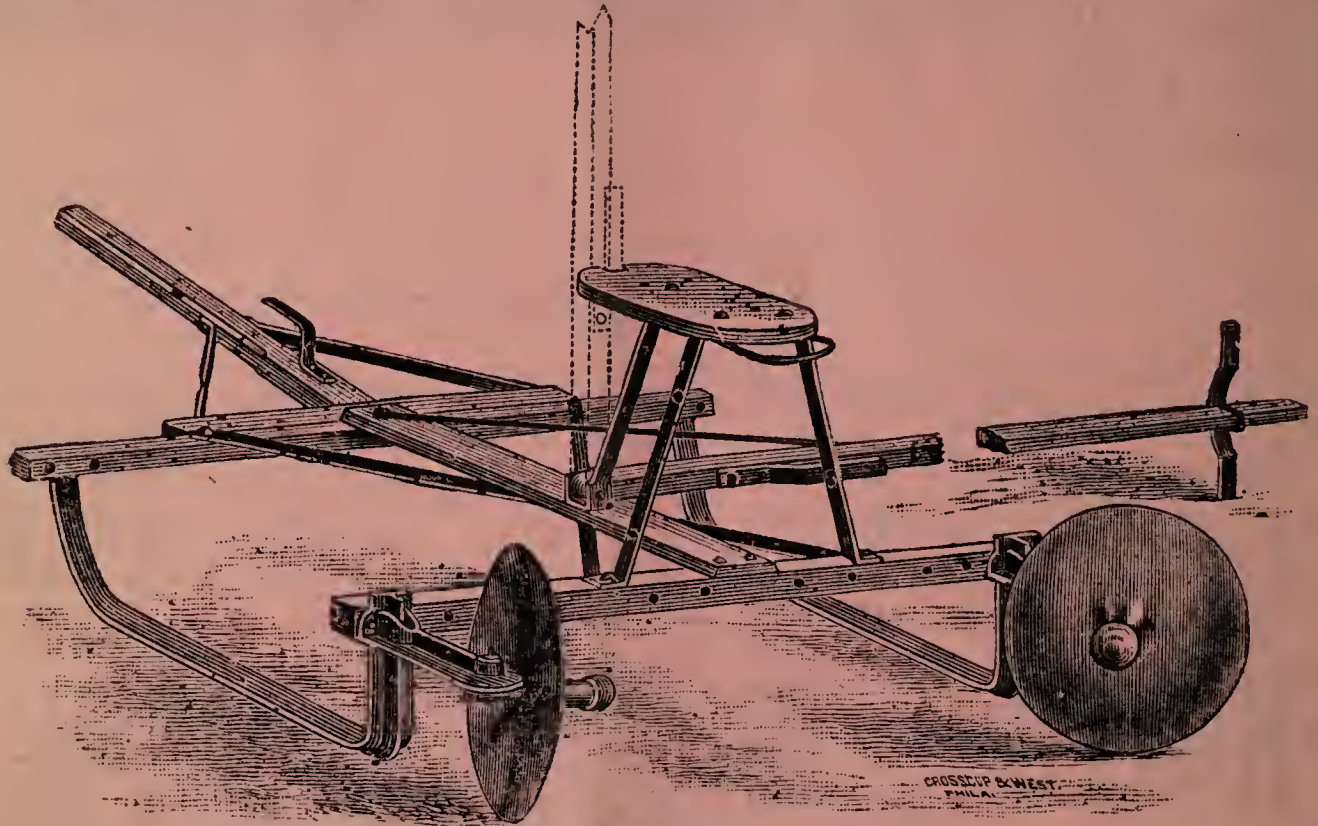
In offering this Implement to Farmers and Gardeners, we feel assured we have in it the best device for marking out or covering rows, etc., that has yet been produced, for the following reasons, viz:

*It will run steadier, open a better row either in hard or soft ground than any other marker in use. It is not choked out by manure, trash or clogs, and leaves the earth in the bottom of the furrow in a pulverized condition, thus making an excellent seed bed.*

The runners are composed of wrought T angle iron, the disks or markers (fifteen inches in diameter) are of cast iron, with chilled hub and steel axle, which add greatly to its durability. Its peculiar construction, with broad runners to prevent the sled from sinking into the soft earth, as well as to steady its motion, and the revolving disks, which cut a straight and clean furrow, renders the draft very much less than that of the ordinary marking sled. The runners and markers are adjustable, and will mark any width desired, from two and a half to five feet, and from a mere mark to six inches in depth. Width of furrow from two to five inches as desired. The gauge or guide pole is so constructed, as to adapt itself to all the inequalities of the ground.

These Implements have been in use in various sections of New Jersey, during the past three years, and have given universal satisfaction.

We give below a few testimonials from parties who have used them:



West Hebron, N. Y., Stock Farm, May 5th, 1882.

I have used the Darnell's Patent Furrower ordered of you some days ago. This afternoon I finished a field of potatoes with it. It worked splendidly, although the ground was quite stony. It far exceeds my expectations. I had no difficulty in covering my rows with it, at just the required depth of four inches. If the merits of this cheap implement were known to the potato growers alone, your sales would be immense.

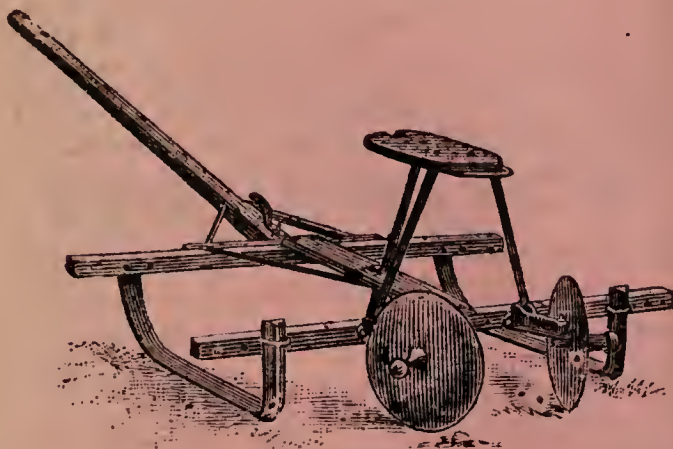
Yours truly,  
EDWARD L. COY,  
Pres't. Washington Co. N. Y., Ag. Soc.

Pleasant Valley Small Fruit Nursery,  
Moorestown, N. J., 1st Mo., 17th, 1883

Having used the Darnell's Patent Furrower and Marker during last season, I take the pleasure in recommending it to all Farmers and Gardeners. It opens a clear, clean furrow (two at a time,) and runs steadily, and is comparatively light work for a team. By reversing the disks, placing them hub out, and bolting the arms in the middle of back cross piece, as in small cut, you can throw a double furrow, or cover rows perfectly.

The implement is thoroughly well made, and will last for years. It is no humbug.

Respectfully,  
JOHN S. COLLINS.



From what I have heard of its work, I do not think there is any implement made for opening and covering rows, that will do its work more satisfactorily than Darnell's Patent Furrower and Marker. It is easily adjusted, does not require a machinist to explain it, well made and sold at a moderate price.

L. F. TILLINGHAST, Publisher of SEED-TIME AND HARVEST

**Send for Circular.**

**H. W. DOUGHTEN, Manufacturer,**  
*East Moorestown, Burlington Co., N. J.*

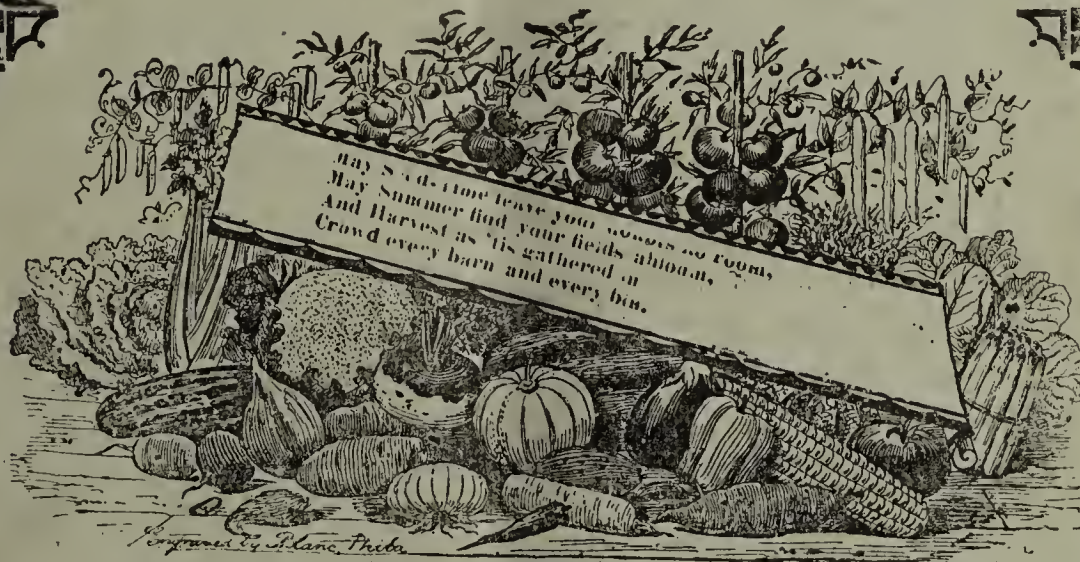


1883.



# Seed-Time and Harvest.

## APRIL.



Devoted to Rural Affairs.

PUBLISHED MONTHLY BY  
Isaac F. Tillinghast, La Plume, Lack'a Co., Pa.

50 Cents a Year.





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**BEST MARKET PEAR** PEACH, PLUM, PEAR, APPLE, QUINCE and other trees; 50 sorts **STRAWBERRIES** Wilson, Bidwell, Miner, Downing, Crescent, Ken.ucky, Sharpless \$2 per 1000. Raspberries, Blackberries, Currants, 30 sorts of grape. Lowest cash prices. Send for Catalogue **J. S. COLLINS, Moorestown, N. J.**

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(Established 1855)

**NEW STRAWBERRIES**  
**RASPBERRIES, BLACK-BERRIES**  
**CURRENTS AND GOOSEBERRIES.**  
**GRAPE VINES,** Apple, Pear, Cherry, Plum, Peach, Quince  
**TREES.** Ornamental Trees, Shrubs, Vines, Roses, &c. Hundreds of varieties.  
**SEEDS** All the new as well as the Best old sorts **Prices Low.** Stock Pure, Quality Guaranteed. \$1, \$2, \$3, \$5 and \$10 Collections. New 36-page *Illustrated Catalogue & Price List* **FREE TO ALL** applicants. Address **H. S. ANDERSON** Union Springs, N. Y.

## U. S. STANDARD 5-TON SCALES, \$60.

THIS PRICE INCLUDES FREIGHT, CARPENTER'S WORK, AND HANGING THE SCALES IN SATISFACTORY WEIGHING ORDER.

Where we have no Agents the Scales will be sent on Trial, Freight paid, and a **SPECIAL DEDUCTION MADE.**

FOR ORDINARY FARM USE, WE RECOMMEND

### THE FARMERS' 3-TON SCALE,

Size of platform, 8 feet by 13 feet.  
Price, \$85.

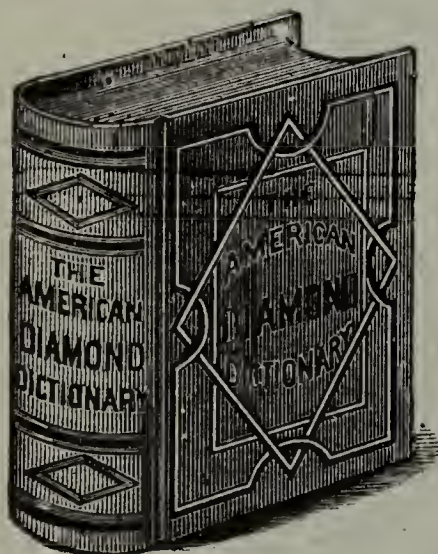
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OSGOOD & CO.,  
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Tables showing power of Man, Horses, &c., Statistics of Light, Sound, &c., Population of the World, Religions of all countries, Interest Tables 4 to 20 per cent., the Metric System, Language and Lexicography, Complexion of the Human Race, The Ocean, and much other valuable and instructive matter. REMEMBER this is not a trashy imported book, but it is a new, fresh, and perfect Dictionary, printed from new type on fine paper, with new engravings, containing over 700 pages superbly bound in fine cloth, embossed sides, with full gilt back and title. (It is exactly like above cut.) Every student, teacher, every man, woman, and child needs this invaluable standard work.

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**UNDERSTAND** That we mean what we say; have 50,000 paper is worth \$1 a year and Dictionary contains as much as any one sold at \$1; that you can have both by return mail; and that we guarantee satisfaction in every case.

**CUT OUT** This offer, and enclose 21 green stamps. If not delighted, you can have your money back. Club of five, \$2.75; ten, \$5.

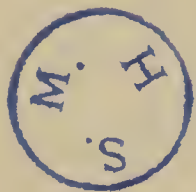
THINK of a 700-page, 1,400 column, cloth-gilt Dictionary, and a standard family paper all free for a paltry 63 cents. Send now. Address, Banner Publishing Co., Hinsdale, N.H.











## PRENTISS.

White, best quality, early, good grower, very productive, hardy, good keeper. Is a native seedling with no foreign blood. Sells wholesale in New York at 15 to 18 cents per pound. Flesh tender, sweet, melting, juicy, with a pleasant musky aroma. Quality the best. Ripens with Concord.



# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

VOL. 4.

APRIL, 1883.

NO. 4.

## A DREAM.

I HAD a dream, I say a'dream—  
Yet scarce a dream was mine,  
Methought I saw Intemperance,  
Before the judgment shrine—  
His form was giant in its size—  
Was giant in its strength;  
His boldness filled me with surprise—  
He stood in self-defiance.

“What canst thou say, Intemperance,  
Ere sentence dire be given,  
Since thou hast peopled hell below,  
And robbed the seats of heaven?  
Thou knewest full well, 'tis written plain  
And marked in the decree,  
No soul that dies the drunkard's death,  
Shall my salvation see.

But thou hast made thy brother drunk,  
Hast damned thy brother's soul—  
Because of thee he downward sunk  
Beyond his own control.  
What mischief hath not thy hand wrought,  
What tears, what groans, what pain,  
What homes annoyed, what souls destroyed  
To fill the cup of gain?”

Methought I did not see him wince,  
Nor show the least appall,  
But with a look that haunts me still,  
He viewed the judgment hall.  
Then answering said, “I've thought of this  
But here my papers are,  
They're from thy children while on earth,  
I bring them to thy bar.”

The papers they are handed in,  
I trembled while I saw,  
In lines of black this right to sin,  
Was headed “LICENSE LAW.”  
This license was a moneyed plan,  
By which the right was sold  
Of robbing, cursing, killing men,  
By paying so much gold.

For so much gold we license thee  
To ruin, kill, destroy,  
To drive from home its brightest gems  
And drown each cup of joy;  
To excite men to deeds of strife,  
To angry words and blows,

To decrease all the joys of life  
And increase all its woes.

For so much gold we license thee  
To fill the drunkard's bowl,  
And thrust upon Society  
Those desecrated holes;  
Those dens of drinking, gambling, wrong;  
Those dens of dark repute,  
Where vice, with Bacchanalian song,  
Sinks men below the brute.

For so much gold we license thee  
To plunge our land in crime,  
And on the people lay a tax,  
Oppression scarce could bind;  
To make court sessions long and dear,  
Our jails and prisons fill,  
And thus with horror multiply  
The curses of the still.

For so much gold we license thee,  
Our poorhouse rooms to fill,  
And many a helpless orphan curse,  
And many a mother kill,  
And many a brother stain with crime,  
Make many a sister moan,  
Make many a father sit and pine  
In a dungeon cell alone.

For so much gold we'll stand between  
Thee and all justice due,  
All wives' entreaties, mothers' tears,  
Pay us and we will shield you.  
“I paid them for their license bill,  
The gold they did receive  
If wrong is done they guilty are,  
As justice will perceive.”

I woke, O! terrible that dream,  
And yet it all was true,  
And all this ruin, all this curse,  
Is caused by ME and YOU!  
Is caused by God's own children here,  
Our numbers might control.  
Might save our nation from this curse,  
Might save our brother's soul.

O Christian, where have we the right  
To license what is wrong,  
How shall we answer in that day  
Before the judgment throne?  
Ye are my stewards, occupy  
Earth's vineyard till I come,  
Lord, aid us that from yonder sky,  
Thy voice may say “WELL DONE.”

—Rev. G. D. Kent, in the *Lever*.



## SWEET WILLIAM'S FATE.

BY W. B. DERRICK.

Sweet William aster for heartsease,  
 And gave her candytuft;  
 She honeysuckled for awhile  
 Then rose and thus rebuffed:  
 "Begonia! sir, your bleeding-heart  
 Some balsam soon will ease;  
 Forget-me-not, as we must part,  
 And now lettuce have peas."

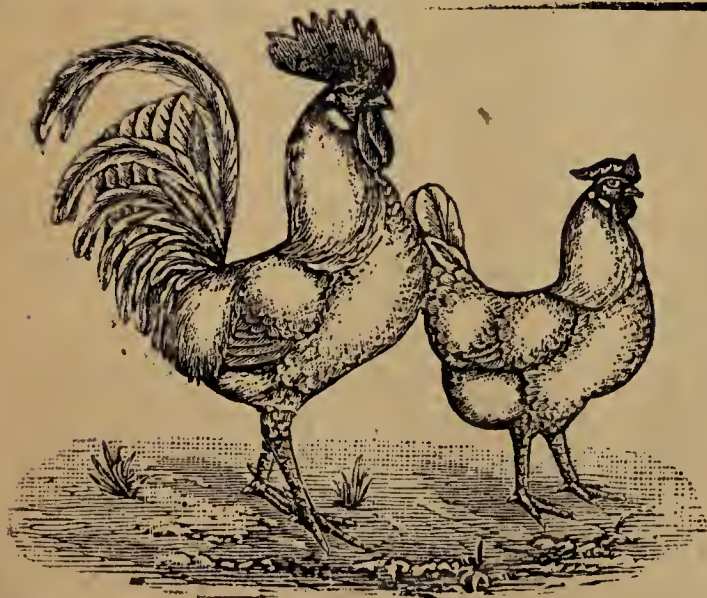
Baileyville, Ill.

## The Best Poultry.

Editor SEED-TIME AND HARVEST;—In accordance with your request I offer the following notes on the best varieties of Poultry, but first let me premise my essay by saying that I have neither eggs nor poultry to sell, and therefore all I may say comes from one who is free from pecuniary bias. I will first take up the Spanish or

## LAYING BREEDS.

These are noted for their beautiful forms and lively habits generally united with large combs and wattles and smooth and glossy plumage. They generally are of small to medium size, mature early and show but little inclination to sit. Among them we find the White, Brown and Black Leghorns. These are named from their color. The White Leghorn is one of the most beautiful of fowls, and while they do



WHITE LEGHORNS.

not compare in size with some of the Asiatic fowls, their flesh is of the first quality. They have large high combs, white or yellowish ear lobes, a trim form, proud carriage and active movements. They are not inclined to sit and have been known to lay 200 eggs in a year. Their eggs are large and white. This may be said of all

of the Spanish fowls. They have yellow legs which is the case with all the Leghorns except the Blacks. With plenty of range and warm quarters for winter they will prove profitable for eggs.



BROWN LEGHORNS.

The Brown Leghorns are much like the White Leghorns except in color. The cocks are marked with fine black breasts and tails, while the most of their other feathers are a bright red. The hens are beautifully pencilled with brown, like a partridge. The Black and Dominique Leghorns are not so generally recommended as the other varieties on account of their smaller size.



BLACK SPANISH.

The Black Spanish are known by their glossy jet black plumage and the large white strip on the face, which frequently grows entirely over the face and around the eyes so heavily as to nearly blind them. They lay the largest eggs of any fowl, unless it be the Houdans and they are a pretty good match for them generally. Their



legs are dark colored and their flesh partakes of the same color. They are not a good table fowl, but as egg producers they show an extraordinary recklessness, often laying themselves to death in order to keep the price down. They should have plenty of range in summer, and in winter they should be supplied with animal food; or they will eat their own feathers as a substitute.



SILVER SPANGLED HAMBURGS.

The Hamburgs are also great layers, but their small size and the poor quality of their flesh do not give them much favor, except among those with whom eggs are the great desideratum. They lay a small white egg and seldom or never want to sit. They have the white ear lobes and large rose combs. The type of the variety is the Silver Spangled Hamburg of which we give a cut. They are unexcelled in beauty of form and feather. The Hamburgs are supposed to be of Dutch origin.



HOUDANS.

The French peasantry have for many years made the production of eggs a specialty, and they have several popular breeds which have been introduced into this country, and among them are the Houdans and Crevecœurs. The Houdans are the best



WHITE CRESTED WHITE POLISH.

known here and consequently the most popular. They are of medium size and are well adapted for the table or market. They are non-sitters and those who breed them generally keep some other kind to hatch their eggs. Their plumage is black and white spotted, and they have a heavy top-knot which is sometimes so heavy as to prove considerably disadvantageous, especially when hawks are troublesome. Those who raise them should keep a few guinea fowls to perform picket duty for them.



WHITE CRESTED BLACK POLISH.

The Polish fowls, of which there are several varieties are also pretty good layers, but generally their small size renders them distasteful to the average farmer who desires flesh as well as eggs; still some fanci-  
(Continued to page 6.)



## ADVICE TO YOUNG MEN.

**The reasons why Telemachus should get married on \$1,000 salary.**

Get married, my boy? Telemachus, come up close and look me right in the eye, and listen to me with both ears. Get married. If you never do another thing in the world, marry. You can't afford it? Your father married on a smaller salary than you are getting now, my boy, and has eight children, doesn't have to work very hard, and every year he pays a great pile of your little bills that your salary won't cover. And your father was just as good a man at your age as you are now. Certainly, you can afford to marry. You can't afford not to. No. I'm not going to quote that tiresome old saying that what will keep one person will keep two, because it won't. A thousand dollar salary won't keep two one thousand dollar people; but it will keep two five hundred dollar people nicely, and that's all you are, just now, my boy. You need not wince or get angry. Let me tell you, a young man who rates in the world as a five hundred dollar man, all the year round; Monday as well as Saturday; the day after Christmas just as well as the day before; the fifth of July as well as the third, he is going to rate higher every year, until he is a partner almost before he hoped to be a book-keeper. Good, reliable five hundred dollar young men are not such a drug in the market as you suppose. You marry, and your wife will bring tact, and love, and skill, and domestic genius, and womanly economy that will early double your salary. But you would have to deny yourself many little luxuries and liberties? Certainly you would; or, rather, you'd willingly give them up for greater luxuries. And you don't want to shoulder the burdens and cares of married life? I see you do not. And I see what you do not realize, perhaps, that all your objections to marriage are mean and selfish. You haven't given one manly reason for not marrying. If you do marry, you are going into a world of new cares, new troubles, new embarrassments. You are going to be careful and worried about many things. You

are going to be tormented with household cares and perplexities, all new and untried to you. You are going to be pestered and bothered and troubled. You will have to walk the floor, with ten pounds of baby and a barrelfull of colic, when you are nearly crazy for sleep. You will have to tell stories to the children when you want to read. You will have to mend a toy for young Tom, when you ought to be writing letters. You will have to stay at home in the evening, when you used to go to the club. The baby will rumple your necktie and the other children will trample into your lap with their dusty shoes. Your wife will have so much to do, looking after the comfort of her husband and children, that she won't be able to sing and play for you every evening, as your sweetheart did. Your time will not be your own, and you will have less leisure and freedom for fishing and shooting excursions, camps in the mountains and yachting trips along the coast than your bachelor friends of your own age. But, then, you will be learning self-denial; you will be living for some one else; you will be loving some one better than you love yourself, and more than a thousand fold that compensates for all that you give up.

Why you want to remain single now, my boy, is just because you are selfish. And the longer you remain single the more this selfishness will grow upon you. There are some noble exceptions among bachelors, I know, and some mean ones among married men; and a selfish married man needs killing more than any other man I know of; but, as a rule, just look around your own friends and see who are the selfish men. Who is it that gives up his seat in a street-car to a woman—not a pretty young girl, but a homely wrinkled woman in a shabby dress? Who is it that heads the charity subscriptions? Who pays the largest pew rent? Who feeds the beggar? Who finds work for the tramp? Who are the men foremost in unselfish work? I know your young bachelor friends are not stingy! Oh, no! I know Jack Fastboy paid \$570 last week for a new buggy; it is as light as a matchbox, and has such a narrow seat that he never can ask a friend to ride with him;



and at the same time, Dick Slocum, who married your sister Alice, five years ago, gave \$250 for the cyclone sufferers. I think the angels laughed all that afternoon, my boy; but I don't think it was because Jack paid \$570 for his new buggy. If you want to shirk the responsibilities of life, my dear boy, you may; if you want to live forty or fifty years longer, with no one under the heavens to think about, or care for, or plan for but yourself, go ahead and do it. You will be the only loser. The world won't miss you nearly so much as you will miss the world. You will have a mean, lonely, selfish, easy time, and unless you are a rare exception to your class, little children will hate you, and the gods never yet loved any man whom the children disliked.—*Burlington Hawkeye.*

### True Words Well Said.

A father talking to his careless daughter said: I want to speak to you of your mother. It may be that you have noticed a careworn look on her face lately. Of course it has not been brought there by any act of yours, still it is your duty to chase it away. I want you to get up to-morrow morning and get breakfast, and when your mother comes and begins to express her surprise, go right up to her and kiss her on the mouth. You can't imagine how it will brighten her dear face. Besides, you owe her a kiss or two. Away back when you were a little girl, she kissed you when no one else was tempted by your fever-tainted breath and swollen face. You were not so attractive then as you are now. And through those years of childish sunshine and shadows she was always ready to cure by the magic of a mother's kiss, the little dirty, chubby hands whenever they were injured in those first skirmishes with this rough old world. And then the midnight kiss with which she routed so many bad dreams as she leaned over your restless pillow, have all been on interest these long years. Of course she is not so pretty and kissable as you are, but if you had done your share of the work during the last ten years, the contrast would not be so mark-

ed. Her face has more wrinkles than yours—far more—and yet if you were sick that face would appear more beautiful than an angel's as it hovered over you watching every opportunity to minister to your comfort, and every one of these wrinkles would seem to be bright wavelets of sunshine chasing each other over the dear face. She will leave you one of these days. These burdens, if not lifted from her shoulder, will break her down. Those rough, hard hands, that have done so many unnecessary things for you, will be crossed upon her lifeless breast. Those neglected lips that gave you your first baby kiss will be closed forever, and those sad, tired eyes will have opened in eternity, and then you will appreciate your mother, but it will be too late.

There are many remedies advertised for the purpose, but the best way to make hens lay is to post up in the chicken house a notice that eggs are going down five cents a dozen every day.

A farmer who was boasting of his respect for man—for man pure and simple, was nonplussed by his wife's saying: "And yet you always count your cattle by the head, while your hired servants are only your hands."

A lawyer in one of the Western courts lately threw a cane at another's head. The court required him to apologize to it. He did so, and added, "While I am about it, I may as well apologize beforehand for throwing another cane at him the first chance I get."

The story is told of an American visiting Montreal, who gave the waiter a silver trade dollar as a fee. Said the waiter: "Sir, did you intend to give me a dollar?" "I did." "Well, sir, this coin is at a discount. I can only take it for ninety-two cents. Eight cents more, please."

Husband: "You are quite comfortable, dear?" Wife: "Yes, love." "The cushions are easy and soft, ducky?" "You don't feel any jolts, pet?" "No, sweetest." "And there is no draught on my lamb, is there, angel?" "No, my ownest own." "Then change seats with me."



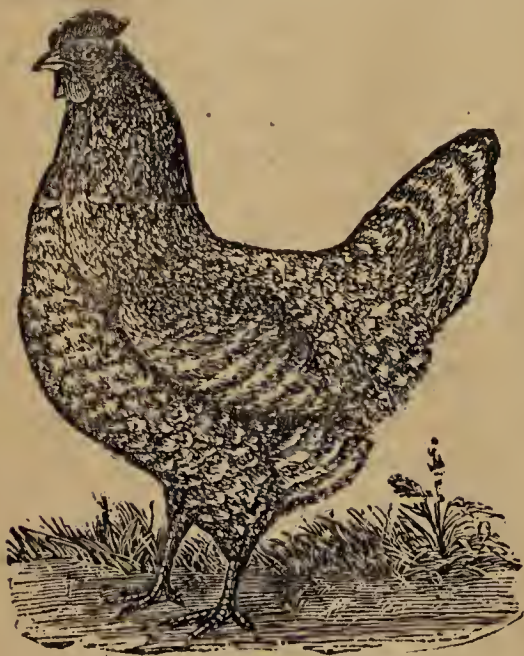
(Continued from page 3.)

ers take great pride in their flocks of White Crested, White Polish and White Crested Black Polish chicks with their heavy military looking plumes, which, while they prevent their seeing an enemy at all times do not prevent their pitching into him when they do see him.



PLYMOUTH ROCK COCK.

The foregoing is a brief summary of the European breeds and we now come to an American breed that has won an enviable reputation, not only for laying, but for excellence in size, table quality, gentleness; and in fact, all that goes to make up a



PLYMOUTH ROCK HEN.

profitable fowl. I refer to the Plymouth Rocks, a breed that since its introduction some thirty years ago, has steadily increas-

ed in favor and is proving itself to be unexcelled by any in those points which go to make it the fowl for the farmer. In size they are large, weighing from six to ten pounds. In color they range from an ashey gray to dark gray, but every feather should be perfectly marked with its own white and blue in proper proportion. Their combs are small and not liable to be frozen; legs and beaks yellow. As winter layers they have proved themselves equal, if not superior, to almost any other breed.



PARTRIDGE COCHINS.

I now come to the Asiatic or flesh-producing fowls. While many of these are accounted fair layers they cannot compare with the smaller varieties in the number of eggs they shell out in the course of a year. The Cochins and Brahmans are the best known of the Asiatic breeds. They were formerly of all colors from white to black,



LIGHT BRAHMANS.



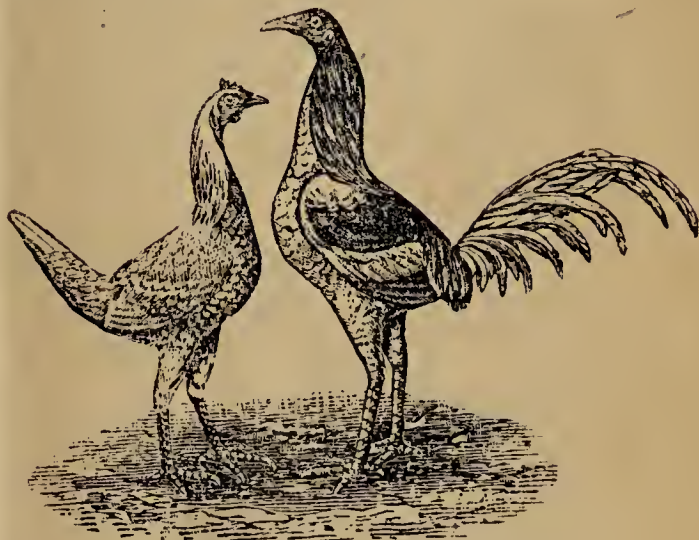
but through the efforts of the fanciers, they are now bred true to a certain line of markings, and a dark colored feather on a White Cochin would be considered *prima facie* evidence of impure blood. Their great size and weight, combined with quiet demeanor, make these fowls general favorites among those who raise poultry for market. Ten pounds is no uncommon weight for a cock of a year old, and they frequently weigh more than that. The most popular varieties at present, are the White, Buff and Partridge Cochins, Light and Dark Brahmias, and the Langshan. The latter is a noble bird having fine glossy black plumage with a bright metallic lustre, large comb and tail, and is an excellent layer. The others are too well known to need a description here. There are probably more breeders of the Light Brahmias in the United States than of any other fowl, and those who invest in them are not often disappointed.



DARK BRAHMAS.

I have now briefly noted the different fowls generally kept for eggs and market, but there are several other breeds kept by fanciers that have especial points of merit. Among these are the Games, which are not only noted for their peculiar inclination to "rule the roost," but some of them are most excellent layers as well. There are so many varieties of Games, that it is almost impossible to give a description or even name them all. They are generally of fair size, tough and hardy, but on account of the dark color of their flesh are not as well liked for market as other varieties. They have small wings, clean legs and are generally destitute of combs. They are active and vigilant and the hens make excellent mothers. The Duckwing Game Bantams

are very active little fellows and permit no intruders on their domain. They, as well as the other Bantams, make excellent little pets for children and are very ornamental on the lawn. The Bantams are good layers but their eggs are too small to be profitable to the consumer.



DUCKWING GAME BANTAMS.

I have been asked which are the best poultry books and journals. There are many good books. Johnson's *Practical Poultry Keeping*, from which I have borrowed the engravings in this article, is one of the best. *The Poultry Monthly*, published at Albany, N. Y., *The Poultry World*, Hartford, Conn., and *The Poultry Bulletin* of 62 Courtland St., N. Y., are among the best of the numerous papers devoted to poultry and pet stock.

CONNOISSEUR.

The boy stood on the back yard fence, whence all but him had fled. The flames that lit his father's barn shone just above the shed. One bunch of crackers in his hand, two others in his hat: with piteous accent loud he cried, "I never thought of that!" A bunch of crackers to the tail of a small dog he'd tied. The sparks flew wide and red and hot, they lit upon the brat: they fired the crackers in his hand and lit those in his hat. Then came a burst of rattling sound—the boy, where was he gone? Ask of the winds that far around strewed bits of meat and bone and scraps of clothes and balls and top and nails and books, and yarn and relics of that dreadful boy that burned his father's barn.

—Isn't this number worth all it cost you?



### Selecting Vegetable Seeds For Spring Planting.

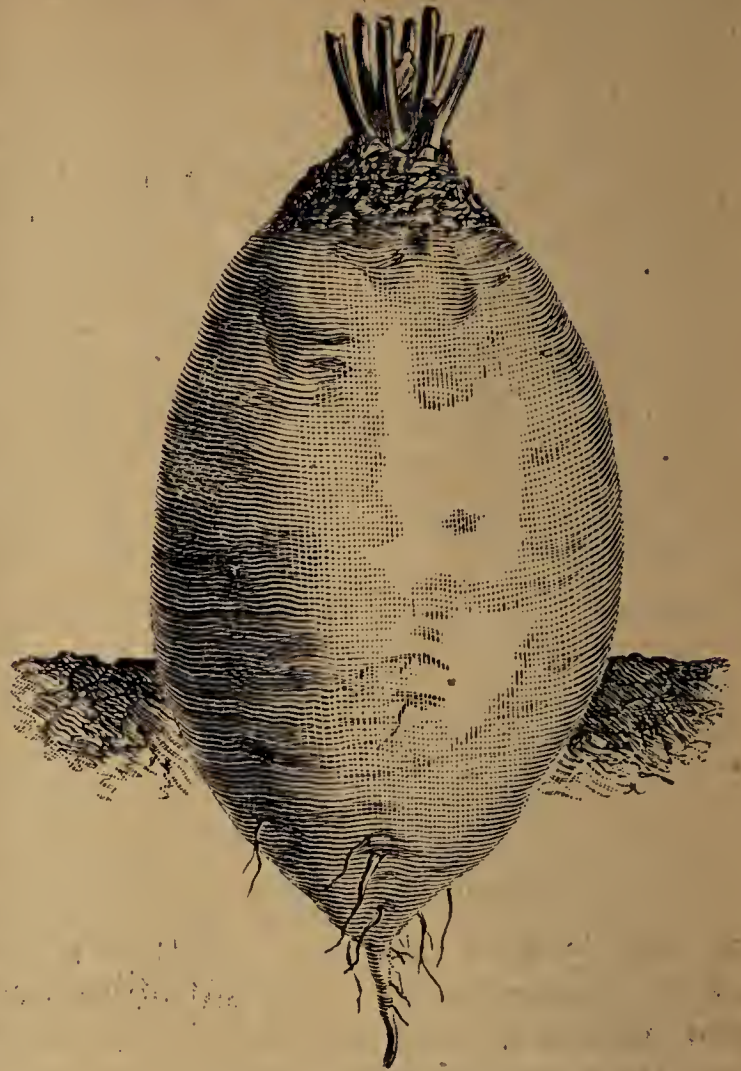
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**ROOTS FOR STOCK FEEDING.**—The cultivation of Mangel Wurtzel Beets with a view to producing a crop for winter food for cattle sheep and swine, is greatly on the increase, as it should be, for it is found that in no other way can so great a value of winter and spring food be produced as in growing these roots.



RED GLOBE MANGEL WURZEL.

To successfully grow Mangels a strong warm loam should be selected and heavily manured. Land set apart for this crop should be plowed as early in spring as possible, and cross plowed just before seeding. At the first plowing it should receive about eight loads of barnyard manure to the acre. After the second plowing it should be harrowed and rolled and thrown into drills in which should be distributed about as much more fine manure. An application of salt, say 10 bushels per acre is said to greatly increase the yield. Phosphate, Bone Manure or any highly nitrogenous fertilizer can also be profitably used, as these roots are gross feeders and the question of a maximum or minimum crop will greatly depend upon the amount of plant food supplied. About 5 pounds of seed is usually sown per acre. Most cultivators sow with a Turnip Drill, but we find that if the seeds are sown by hand, dropping from 3 to 6 seeds in a place at intervals of about one foot in drills three feet apart,



WEBB'S KINVER YELLOW.

that a more certain stand of plants is likely to result. Of course this method is impracticable on a large scale, but however they are sown care should be taken to firmly tread or press the soil around the seeds. On land properly selected, planted and cultivated enormous crops have been frequently grown. We have records of from 1200



YELLOW GLOBE.





NORBITAN'S GIANT.

to 1800 bushels per acre. We know of swine breeders who winter their breeding sows almost entirely upon these roots, finding them the cheapest possible food for this purpose. As to varieties, when classed by their relative shapes there are three types, the globe, half long or ovoid, and long. In color there is red, yellow, and white. The globe or half-long varieties are generally selected for sandy soils and the long red for very rich upland.

#### WISDOM FROM THE CATALOGUES.

The various nursery and seed catalogues which reach our table contain some of the most timely and valuable notes on gardening to be found anywhere, and they are written by practical working men who know just what they are talking about. Under the above heading we shall give from time to time a re-print from these sources.

**STRAWBERRIES.**—*Geo. L. Miller.*—A well-kept strawberry bed is an ornament to any garden, and the labor required to keep it in order is a pleasant pastime, when one has in mind the rich treat in store for him.

Any ordinary soil will grow strawberries, though the richer it is made the larger the fruit. Thoroughly enrich with any fertil-

izer at your command; good barnyard manure well rotted is perhaps the best. Plow or spade deep, but do not bring up any subsoil; then rake or harrow until well pulverized; spread the roots when planting, and press soil firmly around plant; if tight enough to permit the pulling of a leaf-stalk without loosening the plant, it is almost sure to grow.

We prefer planting in the spring as early as the ground will permit, but pot-grown plants, set in August or September, will produce a good crop the next season. For garden culture, the most convenient method is to plant in beds four feet wide, three rows in each bed, and plant one foot apart in the row. A pathway two feet wide should be left between the beds so that the fruit may be easily picked and the beds kept clean without stepping on them. Cover lightly in winter with corn-stalks or some coarse litter, rake off in the spring, dress the beds, and mulch with the same litter or short grass from the lawn.

Plant a new bed every year, spade under after the second crop, and so insure plenty of berries, and evade unsightly beds.

For field culture, we plant in rows three feet apart, and from fifteen inches to two feet apart in the row, according to habit of growth; but do not remove the covering until after fruiting season.

Our plan, we think it is as expeditious as any we know of, is to mark off the rows with a horse and narrow shovel-plow, opening a furrow three or four inches deep; a boy follows, dropping the plants; others come after and set them, spreading the roots and making firm by pressing earth against them from opposite sides with the hands. Only two or three rows are opened at a time, so that fresh soil is always put next to the roots. At close of day's planting, the two-horse roller is run over all, horses walking between rows. In a few days the one-horse cultivator, going twice to a row, fills up what is left of the furrow, and dressing around plants with the hoe makes all smooth. Varieties having imperfect blossoms—*i. e.*, destitute of stamens—are termed pistillate, and should be planted near staminate sorts to produce perfect fruit. To this class belong some of



the best and most productive.

The question is often asked, "What varieties are best to furnish pollen for pistillate sorts?" and the idea prevails with many that any perfect-flowered variety will answer. To produce the best results there are some varieties which we would never recommend for this purpose. There are some kinds having perfect flowers which do not furnish sufficient pollen to perfectly fertilize their own blossoms, especially in a dry time, which fact accounts for imperfect berries and *green ends* often seen in some perfect flowered varieties, and also that some sorts are not as prolific of berries as blossoms. The Sharpless is one of these, and, from observation, we find it more productive when planted by the side of Finch's Prolific, a *strongly staminate* variety. Wilson's Albany we have heretofore regarded the *best* pollen furnisher, and Finch's Prolific, *fully its equal* in this particular, we *confidently* recommend and believe is destined to supersede Wilson's in every respect.

TREATMENT OF PLANTS.—*F. E. Fassett & Bro.*—When plants are received by mail, unpack carefully, place them in moderately warm water and leave them there for a few minutes. If there is no danger from frost, plant them at once in the open ground, give them a thorough watering, shade and protect them from the full rays of the sun and from drying winds till they get established. Those intended for pot culture should be potted at once in pots not too large at first, and then shifted into larger pots as their growth demands, which will be when the roots begin to mat against the sides of the pot. The soil best adapted to most plants is a mixture of old, rotten turf and thoroughly decayed manure, in proportion of two-thirds of the former to one-third of the latter. If turf cannot be procured, good garden soil will answer.

Some one wrote to Horace Greeley inquiring if guano was good to put on potatoes. He said it might do for those whose tastes had become vitiated with tobacco and rum, but he preferred gravy and butter.

A good mother and an old slipper always make a spanking team.

## The Newer Potatoes.

As the planting season is close at hand practical notes on the different varieties of potatoes are seasonable and interesting to many readers. Having for a number of years past, endeavored to test all the newer offerings and compare their respective merits, I can perhaps give some information concerning them which will be of value to the general public.

### EXTRA EARLY VARIETIES.

For very early use the Early Beauty of Hebron is yet held in higher esteem than any other which is well known. Clark's No. 1, is perhaps fully as early, but will not equal it in yield or quality. The Early Sunrise proved the most promising of any very early new variety in our trial grounds last season. The only fault we could see in it was that its general appearance is like the Early Rose which will allow it to be easily counterfeited. Among the very latest introductions for extra early competition may be named Boston Market, Early Gem and Early Harvest, but neither of them have as yet been tested by us sufficiently to warrant us in expressing an opinion of their actual merits.

### MEDIUM EARLY VARIETIES.

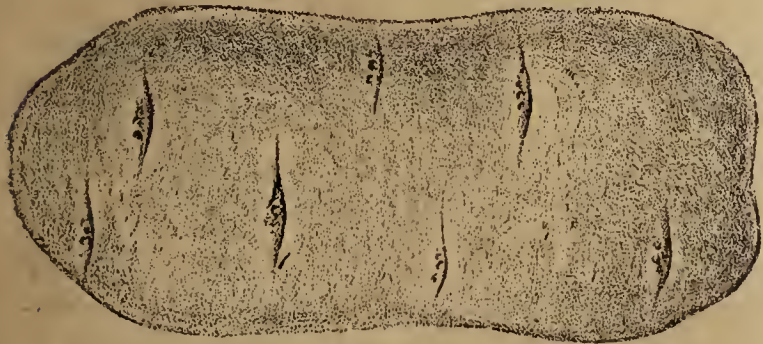
Under this head we shall have to class Pride of America, Brownell's Best, Early Telephone and Snowflake. All these are very fine potatoes, but they are all so very nearly alike that it is almost if not quite impossible to distinguish them. Any person who has grown one therefore knows about what the others are, though the newer ones should be more vigorous and productive than the Snowflake which has now had a run of several years. There are several new offerings, which should be classed as medium early, which we have not yet fully tested. Most prominent among them may be named the Rural Blush, Vick's Prize and Hall's Early Peachblow. Potato-fanciers should give each of these a trial.

### LATE VARIETIES.

There are more candidates for public favor in this class for general crop than either of the above. Among the hundreds which we have tested, the Belle and White



Elephant stand higher in our estimation, than any others which can be procured at reasonable rates. The Belle was introduced by us two years ago, and has given the most universal satisfaction of any variety we ever handled. The late Beauty of Hebron and White Elephant are so closely allied as to be scarcely distinguishable. Those who have either, need not trouble themselves to get the other. Wall's Orange has brought out some excellent reports from those who planted it last season, but as I am specially interested in it, I will not occupy space in praising it here. Jordan's Prolific and new Champion are very promising new sorts. White Star has



WHITE STAR.

become very popular and gives great satisfaction on account of its great yield and beauty. St. Patrick closely resembles Burbank which is well known. Rose's New Seedling yielded bountifully with us last season.

We believe the varieties named above include all the really valuable varieties among the many hundreds which we have tested.

A member of a school board, not a thousand miles from Boston, visited a school under his jurisdiction. When asked to make some remarks, he said: "Well, children, you spells well and you reads well, but you haint sot still." Comment is unnecessary.

A little girl once said she would be glad to go to heaven because they have plenty of preserves there. On being cross-examined, she took down her catechism and triumphantly read: "Why ought the saints to love God? Answer: Because He makes, preserves and keeps them."

, Pa, why do they call 'em high schools? "It's because we pay so much for 'em, my son. You'll understand these things better when you get to be a tax-payer."

## THEOLOGY IN THE QUARTERS.

Now I's got a notion in my head dat when you come to die,  
 An' stan' de 'zamination in de Cote House in de sky,  
 You'll be 'stonished at the questions dat de angel's gwine to ax  
 When he git's you on 'de witness stan' an' pin you to de fac's;  
 'Cause he'll ax you mighty closly 'bout your doin's in de nights.  
 An' de watermillion question's gwine to bodder you a sight!  
 Den your eyes'll open wider dan dey ebber done befo',  
 When he chat's you 'bout a chicken scrape dat happened long ago!  
 De agents on de picket line'er long de Milky Way Keeps a watchin' what you're dribin' at an' hearin' what you say;  
 No matter what you want to do, no matter whar you's gwine,  
 Dey's mighty ap' to find it out an' pass it 'long de line;  
 An' of'n at de meetin', when you make a fuss an' laugh,  
 Why, dey send de news a-kitin' by de golden telegraph;  
 Den de angel in de orfis, what's a settin' by de gate, Jes' reads de message wid a look, an' claps it on de slate!  
 Den you better do your juty well, an' keep your conscience clear,  
 An' keep a lookin' straight ahead an' watchin' whar you steer;  
 'Cause arter while de time'l come to journey frum de lan',  
 An' dey'll take you way up in de a'r an' put you on de stan';  
 Den you'll hab to listen to de clerk, an' answer mighty straight,  
 Ef you ebber 'spec to trabble frow de alaplaster gate!  
 —The Century.

AT THE December meeting of the Massachusetts Horticultural Society, Mr. Benj. P. Ware, in speaking of Potatoes, said: "The Belle is probably the best new variety; several persons who have tested it in competition with twenty others claim for it better qualities than are possessed by any other. It is very productive and remarkable for its uniform size."

Talleyrand wrote to a lord who had bored him: "Dear Lord Blank: Will you oblige me with your company on Wednesday next at 8 o'clock? I have invited some exceedingly clever people and do not like to be the only fool among them."

A hen is a model for dancers. She uever leaves her set except to eat and drink.



## Seed Corn and Melon Seed.

That a judicious selection of seed of all kinds has much to do with the future yield no one will deny. Nevertheless, not one in ten, or one in a hundred likely, pays any attention to it. As I have seen several articles lately on the subject, I will give my experience, which differs from any I have seen. One year I selected my seed corn from the butt of the ear, using *only* the flat and misshapen grains. As soon as I came to *flat, nice* grains, I laid the ear down for meal. I planted my crop with such unsightly grains, and the result was that my corn silked the nearest all at one time, that I ever saw, and a bushel of it weighed sixty-three pounds. I will tell you why I planted the butt grains. Walking by a fence, one day I saw a "poke-berry" stalk, the berries of which had begun to ripen. The berries at the base of the bunch were *fully ripe*, while those at the tip end of the same bunch were not half grown. I then thought that corn, perhaps, ripened similarly, so I examined some roasting ears, and my expectation was true. The *butt* grains were *grown*, when those at the *silk* end were not more than *half* grown. Nature teaches many good lessons. *if our ears were not too long* to heed them. I want such readers of FARMING WORLD to plant a few rows next year with seed selected in the same way, and report the result.

Watermelons, gourds, squashes, etc., form their seed differently, the bulb enlarging from the center. Any little boy, who has ever cut his "daddy's" green melons, knows that the center seed of a "cut-seed" watermelon are larger than those at either end. I have followed the plan of saving melon seed from the center for a number of years, and the result is larger, better flavored, healthier melons. Try it, friends, and see if it is, or is not, the truth.  
—*Farming World.*

"I was not aware that you knew him," said Tom Smith to an Irish friend, the other day. "Know him!" said he in a tone which comprehended the knowledge of more than one life; "I knew him when his father was a boy."

## Keeping the Boys on the Farm.

We know from experience and observation, that farmer's boys are quite apt to become tired of the routine of farm work, as it is conducted on many farms, and long for the day to come, when they can turn their backs upon the farm, and give their time and attention to some occupation in town or city, which they think will be vastly more congenial to them, than they have ever found farming. Some one has aptly said that "when a person does what he *likes* to do, and get pay for it, he has found his vocation." We admit the truth of this. No matter how well suited with his work a person may be, or how congenial it is to him, if he cannot make the labor return him a fair compensation, he has a right to become dissatisfied. On the other hand, when a person is tied down to a kind of work which is distasteful and uncongenial to him, no matter if it does return him a fair profit, he has a right to become uneasy and seek some employment which accords more nearly with his tastes and increases his peace of mind. In fact, we believe that the congeniality of the labor—the privilege of "doing what he likes"—is of far more importance when judging of the desirability of a job, than the number of dollars and cents which can be got out of it. But farmers' boys are quite apt to think that a great gain can be accomplished in both these essentials by leaving the farm, and in some cases, and under some kinds of farm management, we must confess that the boys' ideas are about right. At the same time, we wish to say that there is no need of its being so. There is no earthly reason why the farm should not be made the happiest and most congenial place for a boy to spend his days that could possibly be selected, and there is no reason why his labors should not return him directly a cash profit large enough to keep him contented and happy. But to become so he must feel a personal interest in what he does. He must be allowed to think and plan and calculate for himself, to sow for himself and reap for himself. The farmer who will persist in always holding the



reins of business himself, for fear his boys will not always drive as straight as he thinks he can, will fail to keep his boys interested in his work. The boys should not only be allowed, but encouraged to manage for themselves. Give them a portion of the stock and an acre or more of land for their very own and let them manage it. No doubt but they will make some poor calculations and failures—for who does not?—but remember that sometimes more is learned and longer remembered from a failure, than from the greatest success.

Encourage the boys to keep some thoroughbred fowls, sheep and cattle, and to plant new and improved varieties of small fruits and vegetables. Get them to take a pride in keeping and growing and producing only the best. Get up a little competition between the boys of neighboring farms. Encourage them to exhibit their products at the County Fair, and they will soon become interested and contented and happy, and the idea of leaving their home and the farm for a more congenial occupation will be the farthest from their minds. If you have \$5.00 worth of interest in the welfare of your boys, and wish to encourage them and interest them in home affairs, subscribe at once for the *Country Gentleman*, *Rural New Yorker*, *American Agriculturist* and as many more good rural journals as you can possibly afford, and have them in the name of your boys. Add the *Poultry World* or some other good poultry paper if you can possibly afford it. In no other way can the same amount be expended where it will do them so much good and be of so much help and encouragement to them, as in papers like the above. It will show them continually what new breeds of stock, and varieties of fruits and vegetables are being introduced, and where they may be procured. It will show them what is being done by others, and stimulate them to go and do likewise. The boy will see that he can make money, and will have an interest and enthusiasm to nerve him on, greater than can be measured in dollars and cents. What has heretofore seemed like drudgery to him will become a pleasure, and instead of longing

for the dinner or the supper hour to come, as when doing every detail under the direction of his father, the days will seem to pass away too soon for him to accomplish all he desires to do. And he will be gaining knowledge and experience which he must get in order to become a successful business man. His successful ventures will teach him as much, and his failures be far less disastrous than they would be later in life. He will learn to be wide awake, enterprising and ahead of his neighbors; and when his father's declining years show that the labor and management of the farm is too severe for him to longer perform, he will have a son capable of taking the mantle from his shoulders, one who will prove a blessing instead of a curse to him in his old age.

#### GARDENING FOR BOYS.

A few words now to the boy himself about how to begin and what to plant. Supposing he has but little capital to invest it is necessary that such branches be followed as will make the quickest, rather than the largest returns, from a small investment. Probably Poultry Breeding and Gardening more nearly combine these requisites than any other particular lines of business in which you can engage.

Select a quarter or a half-acre of the best ground upon the farm. It should lie in a warm sunny sheltered position, and must be naturally well drained. If a sloping piece of meadow or clover sod can be had choose it. If not take corn stubble or land which has not been broken from the sod more than one season. It should be free from rocks and trees. Make a diagram of it on paper, and decide as early as possible about what shall be planted, and how much of the space each variety shall occupy. Aim to plant everything in rows and have the rows run the longest way of the plot and far enough apart so that a horse and cultivator can go between them. By running the plow in two or more rows, and throwing the soil from each toward the other, a ridge will be formed which can be raked into a bed for such small seeds as are best sown in garden beds. In this way beds are formed which are not in the way of cultivating the remaining portion with a



horse. Whatever small fruits are set, strawberries, raspberries, grapes, &c., should be placed upon one side in parallel rows to match the balance of the garden. Put on all the manure you can get, selecting that from the horse stables first, and whatever other fertilizer you can procure. Look upon your soil as the dish out of which your crop must feed and do not neglect to feed liberally. No matter how nice a manger you provide, your cattle and horses will never get fat unless you supply it with food. The greatest item of expense in growing a crop is the labor expended upon it, and it requires nearly as much work to produce 50 bushels of potatoes upon an acre, as it does to produce 500. Of course it is more work to harvest the 500, and yet most men, if hired at a certain amount per day to do the work, would rather work in the field which yields the five hundred, than in that which yields but fifty. So, it is plainly seen, that if any profit ever ensues from tilling the soil, it comes from the maximum and not from the minimum crops, and it will be more satisfactory for you to apply your labor and fertilizers and seeds on a quarter of an acre, than the same amount upon a whole acre. When you think that you have done justice to one-fourth of an acre, and can give as much attention to another fourth, then enlarge your garden, but not till then.

I can hardly advise what particular vegetables to plant to bring the best returns. That must be governed by the situation and circumstances of each particular case, such as the nearness to market and the kind of market. Onions, cabbage and celery, are profitable in nearly all sections. The demand for tomato, cabbage, celery and other Vegetable Plants at very remunerative prices is large, and home sales could readily be made in almost every neighborhood in this country. We have seen the growing of a few hundred cabbage plants by a farmer's boy, extend and develop into a business that requires nearly a million plants annually to supply the demand, and the best part of this business is that the returns come so quickly after expending the money and labor. A pound

of cabbage seeds costing, say \$4.00, will produce about 30,000 plants, which will sell readily in nearly any part of the country for from \$1.50 to \$2.50 per thousand, according to the competition in growing them and consequent supply in that locality, and the fact that orders are annually sent to us from hundreds of miles in all directions shows that the business is not overdone in many localities. There is also always a good demand among the farmers around any locality for seed of the new and approved varieties of potatoes, and any smart boy who will keep his eyes open and procure even a single pound each of a few of the best new sorts as soon as they are first offered and give them good care and attention, can sell the product at a sufficient advance over the price of common sorts to pay him a handsome profit upon his investment and labor.

Poultry raising and gardening go well together, although the fowls must be excluded from the garden at some seasons of the year. If some one of the new and fashionable breeds is selected, and care taken to keep up the standard of purity and excellence, it is an easy matter to sell eggs for sitting and surplus fowls for breeding purposes enough to pay handsomely for all care and attention bestowed upon the flock.

There are only a few of the things which a country boy may find to busy himself at with a fair show of profit for all the labor he may wish to expend. There are many other subjects which will present themselves to the minds of the youthful farmers as they advance in their undertakings, and it is the earnest hope of the writer, that all who are stimulated to make a start in life from reading this article, may see success crown their efforts and a happy and prosperous country life be the result.

#### LETTERS FROM THE PEOPLE.

##### SOME FOWL EXPERIENCE.

ISAAC F. TILLINGHAST, E. Q.

Dear Sir,—I see advertised in SEED-TIME AND HARVEST "Pure Bone Meal for Chickens, sample by mail." I am a novice and fresh beginner in husbandry, but don't understand that I am a husband—no—I am



unmarried and want to try bone meal on chicks, but not on children,) and wish to know and try whatever is good and practical. Herewith I send you ten cents for which please send me a sample. Also please state in an early number of S-T. and H., which, according to your own experience, is the best breed of hens for laying and least inclined to sitting, and where can eggs of that breed be had. Should it be too late to give an answer by publication for early sitting, then please give me the desired information through the mail, stating too, the price of the eggs for a sitting. I purchased a lot of hens last fall. I believe they are left over from the first self-sitting after coming out of Noah's Ark. They are pretty badly mixed, and every chance they get to get out of the chicken house, they go for the roof of the buildings. True, liberty is sweet, but they want too much of it; hence, I want to make a start getting a better and more profitable breed.

Respectfully,  
J. A. F. SCHEFFELER,  
Tawas City, Mich.

There are as many different opinions in the minds of poultry fanciers, in regard to the best breed of fowls, as there are breeds. You will probably find much on this subject in this issue. We have for several years kept Brown Leg-horns for a family fowl and think well of them. They are great layers and non-sitters but not the largest fowl by any means. If our object was chickens for market, we should select Langshans or Plymouth Rocks. French fowls for eggs, Asiatics for meat.

Wakefield, Mass., Jan. 26, 1883.

Mr. Editor:—Enclosed please find a slip for SEED-TIME AND HARVEST, which I cut from a western paper. In our beans we find bugs mostly in the Yellow Six Weeks variety. Is there any help? Is watermelon, squash, and cucumber seed better when more than one year old, say 3 to 6 years old? Is the new Golden Dawn Mango good to pickle same as any other pepper? Please answer through SEED-TIME AND HARVEST, and oblige B. W. OLIVER.

We print your selection "Seed-Corn and Melon Seed" elsewhere in this issue. We have no positive opinions to express upon the subject. Any one who wishes can easily experiment on it.

The Bean Weevils are planted with the beans or allowed to escape from affected beans as soon as the summer weather becomes sufficiently warm to develop them. We believe that if boiling water was poured upon the seed beans and left until cool it would destroy them.

Or better yet, plant only seed that is two years old or seed which has been brought from sections which are not infected. We planted some for growing seed very late last season and thus escaped them entirely. We have not seen one in all our seed stocks this season.

Most vine seeds will retain their vitality longer than any other class unless it is Beets. Seeds six or more years old will grow, and we have frequently heard it claimed will produce more fruit and less vine. We cannot say whether there is any truth in it or not. The Golden Dawn Mango is used both when green and ripe the same as any other mango.

### POTATOES IN POUND PACKAGES.

Mr. Tillinghast:

Dear Sir.—You quote different varieties of potatoes at 50 cents and 75 cents per pound by mail. Now suppose I order a barrel of Belle and a bushel of Wall's Orange, (1.) at what price may I add single pounds of other varieties freight on all to be paid by me? (2.) At what rate of discount may I add seeds from your mail list? (3.) May I take  $\frac{1}{2}$  bushel of potatoes at bushel rates?

ANSWER. (1.) Single pounds of potatoes, any variety desired, may be added at 25 cents per pound each. (2.) Seeds may be added from our mail price list at 20 per cent discount from list price. (3.) One-half bushel of anything may be taken at bushel rates, and in case enough pecks or half bushels are taken to make up a barrel, put down each at one-tenth of barrel prices.

Annawan, Ill., Feb. 26, 1883.

I. F. Tillinghast;

Dear Sir,—Am I to understand by your special offer on potatoes, on page 32 of your catalogue, that I can get four pounds of Wall's Orange potatoes for \$2.00. If so, you may place my order on your book and notify me by return mail, and I will respond with P. O., order for \$2.00 to be sent as soon as it will be safe from frost. Yours Truly,

C. F. SWAYZE.

Certainly. That is just what we wish you to understand. We cannot conceive how anyone can understand the offer in any other way, or how we can write it any plainer than already written in the special offer referred to.

—◆—

The new moon was pointed out one evening to Johnny, who was just learning to talk. Being asked if he saw it, he said, "Yes, I see the rind of it."



# Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. IV.

WHOLE NO., XVIII.

LA PLUME, LACKAWANNA CO., PA.,

APRIL, 1883.

*Ho, Hum!*

*I wish the winter would go!*

*And I wish the summer would come!*

*Then the big brown farmer could hoe,*

*And the little brown bee could hum,*

*Ho, Hum!*

We again insert our Seed Price List in the advertising department of this number and will continue the offer made in our last to send your own selection of Flower or Vegetable seeds from that list to the amount of **\$1.00** and SEED-TIME AND HARVEST monthly for one year for only **\$1.00**, or for **50** cents the Magazine a year and your own selection of Flower seeds to the amount of **50** cents.

**Growing Vegetable Plants.**—In our article in this issue on "Gardening for Boys," we spoke of selling tomato, cabbage, celery and other Vegetable Plants as a profitable branch of gardening well adapted to boys. Of course there is considerable *knack* in producing these else they would be plentiful in all gardens and not in so good a demand. We are now issuing a new edition of our 100 paged "MANUAL OF VEGETABLE PLANTS" in which our experience, covering years of practical work at this business, is minutely given, so that any one who will follow our directions will surely succeed. The price of this Manual is 40 cents, but a copy will be sent free to any one who requests it when ordering seeds &c., to the amount of \$2.00 or more.

The school boy's hoop now rolls along,  
His ball begins to fly,  
His *whoop* is what he calls a song,  
His *bawl* resounds on high.

**Seeds at Wholesale.**—Market Gardeners or Dealers requiring large quantities of seeds (say Ten Dollars worth or over) should send for our new Wholesale List. While the prices we give elsewhere in this issue are as low as good reliable seeds can be mailed in small lots on general orders, we can and will give lower rates on some articles in large quantities. If you wish a large quantity of any particular item write for an estimate or send for Wholesale List.

**Potatoes by Mail.**—In sending potatoes in pound lots we usually select the small or medium sized tubers for the reason that they contain many more eyes to the pound and most persons prefer them. Occasionally, however, we get a complaint from parties who say they expected large tubers. Now, if you prefer large tubers in pound orders please say so upon your order and you will get them. Otherwise, we shall continue to send small or medium sized ones.

*"The winter goes, the summer comes*

*And the clouds descend in warm wet showers.*

*The grass grows green where the frost has been.*

*And waste and wayside are fringed with  
flowers."*

**The Newer Potatoes.**—In answer to numerous inquiries about our prices on potatoes, we desire to say that our object in charging a higher rate for pecks, than bushels and barrels, is to cover the expense of boxing single pecks. In case enough different sorts are ordered at one time to aggregate a bushel we will sell them at bushel rates, and if enough are taken to make a barrel we will sell them at barrel rates. In case a barrel of one kind is taken we give  $2\frac{1}{4}$  bushels for a barrel, but if the barrel is made up of different sorts, we can give but  $2\frac{1}{2}$  bushels for a barrel. So in figuring pecks at barrel rates you will call each peck just one-tenth of a barrel. For instance, our barrel price of Wall's Orange is \$1.50 per peck, Cook's Superb, White Whipple, Clark's No. 1 and Belle are 50 cents per peck, and White Elephant, Early Beauty of Hebron and Pride of America are 40 cents peck by the barrel. Any person ordering enough of these va-



varieties to make ten pecks, or one barrel altogether may figure them at these prices. Any person who will order five or more barrels of any kind may discount our barrel prices 10 per cent. As many single pounds as desired may be added to a freight or express order at 25 cts. for each pound. These may be of any variety you choose to select from our whole list.

Any seeds desired in our list may be added to a freight or express order for potatoes, &c., at 20 percent discount from our mail prices, as we will not have the postage to pay.

**Seeds on Credit.**—As our old customers know our usual way of doing business is to require full payment for everything before it leaves our store. Yet we frequently have applications from perfectly good and honest customers, to favor them by sending a bill of seeds, and wait for payment until they are able to turn something into money. Now if we had any way of knowing or being assured that the purchaser was honest and reliable, and would pay as agreed when the bill was due, we should have no objection whatever to granting the favor and waiting for two, four, or even six months for payment. But with the great cost of producing reliable seeds, and the close competition in selling them, there is not a large enough margin of profit to warrant our trusting them into the hands of irresponsible or unknown parties.

After much thought and study upon this subject, we have concluded to send whatever seeds are wanted from our list, to any person who will copy the following form and return it with their order, filling out the blanks to suit their circumstances:

"I hereby certify that I own real estate to the value of over One Hundred Dollars, and for value received I promise to pay Isaac F. Tillinghast or order.....Dollars within six months from date.

(Signed).....  
(Dated)....."

On receipt of this promise and a list of the seeds desired, we will at once fill the order just the same as though cash accompanied it.

We will keep these promises in our possession until due or paid. If payment is

made as promised, when due, or before, we will receipt and return the document.

We take the ground that any person who honestly intends to pay for what he gets will not object to signing such a promise, and if he does not intend to pay, we of course do not care for his patronage. The length of time may be made to suit the customer's circumstances, providing it is within six months, and no interest will be charged if paid when due.

**Why not you?**—The winter is now about ended and spring is upon us in earnest. During the next six weeks thousands of family gardens will be made, and the seeds for planting them are yet to be purchased. Although there are at least two hundred seedsmen in this country who publish large editions of catalogues and scatter them freely over the land soliciting mail orders, we believe there are more people who still depend upon purchasing "commissioned" seeds from the grocery stores in their own towns, than there are those who send their orders directly to some reliable seedsmen to get their supplies. As those who buy at the stores usually wait until about the time the seeds are needed to buy them, there is still ample time for active agents to canvass their neighborhoods and collect a large number of orders.

Kind readers could you not spend a few days at this business? You might help us greatly, and we will pay you handsomely if you will try it. We do not want to tell here publicly how liberally we will pay you, but will send you full particulars on application. Please write at once for our "Terms to Agents" and we will give you a chance to help us and get big pay for it too.

## GARDENING FOR BOYS. \$66 in Prizes!

We would call particular attention to our article elsewhere in this issue entitled, "Keeping the Boys on the Farm." Probably the question of making ready money is one of the principle ones considered by him in forming his decision of going away or staying, and we think a trial of gardening likely to prove as remunerative to him



as anything he can engage in. In order to further stimulate every boy who is led to undertake the cultivation of a garden of his own, to do his very best at it, we have decided to offer Five Prizes, aggregating \$66.00 to the five boys who will make the undertaking, and write out the best detailed account of their summer's work. The boy under 21 years of age who shall produce the best report shall on the first of January next be awarded and paid \$50.00 in cash. The second best shall receive an order for \$10.00 worth of seeds: the third, a copy of the *Country Gentleman* for one year, price of which is \$2.50; the fourth, a subscription to the *Rural New Yorker*, price \$2.00; the fifth, a year's subscription to the *American Agriculturist*, price \$1.50.

The conditions of this offer are that each contestant shall purchase at least One Dollar's worth of seeds from us. Of course we will gladly receive his order for as many more as he wishes or can use to advantage, but he must take at least One Dollar's worth so as to have SEED-TIME AND HARVEST included for a year.

Secondly, he must plant these seeds together with as many as he chooses from other sources, and study to make as great a profit as possible from them in any way which presents itself. If a County or State Fair is held near by we would advise making an exhibit of the products but this is not required.

Thirdly, next fall as soon as the gardening work is over he must write out an account of his undertaking, giving his age and telling what yielded him the greatest profit, how much he spent for seeds, how much for fertilizers, how much for labor besides his own, and other expenses, and how much cash he received in return, and send it for publication to some newspaper, either his own country paper or some agricultural journal, not SEED-TIME AND HARVEST, not neglecting to say that it was done in competition for our prize and that the seeds were from our house. If neatly and concisely written any paper will willingly publish such a report.

Fourthly, he must send a copy of this to us, and these reports will be carefully com-

pared and the one who does the best with his season's work, that is, who gets the greatest amount of profit from the smallest investment, proportionately, will be awarded the first prize, the second best, the second prize, and so on to the fifth.

We will re-print the reports of the five most successful competitors in SEED-TIME AND HARVEST. All competitors must be between 10 and 21 years of age. No report of profit must be recorded which cannot be substantiated by witnesses if desired. We do not aim to offer a premium on the biggest "fish story" that can be told. We want only facts.

#### OUR CLUBBING LIST.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST, (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

American Agriculturist.....	\$1.10
American Rural Home.....	1.00
Agricultural Epitomist.....	.40
Country Gentleman.....	2.25
Demorest's Magazine.....	1.75
Farm and Garden.....	.35
Farm Journal.....	.35
Farm and Fireside.....	.50
Fruit Recorder.....	.75
Floral Cabinet.....	1.00
Gardener's Monthly.....	1.75
Green's Fruit Grower.....	.20
Household.....	.90
Harper's Magazine.....	3.50
New York Tribune, Weekly.....	1.25
New York Tribune, Semi Weekly.....	2.20
Poultry World.....	1.00
Practical Farmer.....	1.00
Rural New Yorker.....	2.00
St. Nicholas.....	2.75
Scientific American.....	2.75
Scribner's Monthly (Century).....	3.60
Toledo Blade.....	1.25
Vick's Monthly.....	1.00
Western Plowman.....	.50
Youth's Companion.....	1.75

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.



## THE PRIZE WORD HUNT.

In the January number of SEED-TIME AND HARVEST a prize of fifty dollars in gold was offered to the four persons who should send in the most complete lists of words found in that number containing eight or more unrepeated letters subject to certain rules there laid down. Among those rules was one requiring that all lists should be made *strictly* alphabetical, and although, particular stress was laid on the word *strictly*, even to the extent of italicizing it, yet about forty per cent of all the lists sent in were made up in total disregard of this plain requirement, and the pity of it is, that a great many of these lists were otherwise perfect. It was the intention of the publisher that all the rules should be perfectly plain, and should so fit one with another that no contradictions should be found, and no dark places be left, but many of the seekers after the prize found that there were contradictions in the rules, and much difficulty in awarding the prize has arisen from the various constructions put upon these rules. However, we have decided to adopt each competitor's construction, as the standard by which to try his or her list and hold him or her strictly to this test, when the construction so made is anywhere within the plain requirement of the rules. Tested by this decision, we find that of the large number of lists offered in competition, the lists belonging to Chequita Smead of Scranton, Pa., Mrs. Phebe Howe of La Plume, Pa., James F. Keeney of Jacksonville, Ill., and F. M. Howe of Factoryville, Pa., are the only perfect ones, and that they are exactly equal in merit. We therefore award the prize to the four persons above named in equal shares of twelve dollars and fifty cents each. It would have afforded us great pleasure to have given each competitor a prize, but where so many try, some must lose. And we trust that all who have taken part in this word hunt will think with one of the competitors that their time has not been wasted even though they have failed to secure a prize. Lists will be returned to competitors with corrections noted thereon, upon receipt of

self directed envelope and a sufficient amount in stamps to prepay postage, if application is made within sixty days.

AN UNPARALLELED OFFER  
on Cabbage and Onion Seeds.

A reference to our price list will show that our regular prices on Cabbage and Onion, as well as other seeds, are already very low in comparison with other price lists. But, as we still have a large supply which we do not wish to carry over we will make the following unparalleled offer: We will fill an order for any one wishing any considerable quantity of cabbage or onion seeds of any variety in our list at *ten per cent less than* the very best offer you can get from any other reliable grower or dealer. We mean by this that we will sell at your own price providing you will order from us, and send us nine-tenths as much money as any other grower or dealer on whom you can depend will charge. We will send you as good fresh seeds as can be procured anywhere at any price, and hope to hear from all who wish large amounts. If you know of any one who wishes cabbage seeds in quantity to grow plants, or onion seeds for market crops or for setts, please refer them to this offer.

"When the winds of winter through the forests  
blow,  
And the moonbeams glitter coldly on the snow,  
Sweet it is to fancy, though the earth is chill,  
How her heart is keeping thoughts of summer  
still."

EVERY family that desires to provide for its young people wholesome and instructive reading matter should send for specimen copies of the *Youth's Companion*. Its columns give more than two hundred stories yearly, by the most noted authors, besides some thousand articles on topics of interest, anecdotes sketches of travel, poems, puzzles, incidents, humorous and pathetic. It comes every week, is handsomely illustrated, and is emphatically a paper for the whole family.

WALDEN, N. Y., Feb. 26, 1883.

W. C. Hart, Walden, N. Y.:

From the sitting of Plymouth Rock eggs purchased from you last season I raised six cockerels and three pullets, all fine specimens, Gilman's strain. Their combined weight when eight months old was 78 pounds. Four cockerels were sold for \$9.00. I declined an offer of \$10 for a trio I now have. I consider your Plymouth Rocks the best I ever saw, and recommend them as such. C. B. GALATIAN.



## Advertisements.

In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.

**SILK-WORM EGGS** for SALE. Reliable. Write. Miss E. A. McCull, Novelty, Knox Co., Mo.

**50** Elegant Chromo Cards no 22 like with name, 10c. Agents wanted. J. F. Mader & Co., Chillicothe, Ohio.

**23 SONGS FREE** (with music,) for addresses of 5 musicians: 36p. Illus. Catalogue free. HOLCOMB MUSIC CO., Cleveland, O.

**JAMES VICK**, Old Iron Clad, Manchester, &c, Strawberries. A beautiful premium to all buyers. Catalogue free. RILEY C. RICHARDSON, Perry Centre, N. Y.

**RUSSIAN MULBERRY TREES**, Early Orange, Liberian, Honduras Sugar Cane Seed. E. L. MEYER, Hutchinson, Kan. 81-page catalog free.

**HOVEY & CO.**, will send their New Illustrated Catalogue of Seeds and Plants free to all who apply for it, in person or by mail, to 16 South Market Street, Boston, Mass.

**LONGFELLOW CARD**, containing his Likeness, Auto graph, sketch by his own hand and two poems. Ag'ts wanted. Sample, 25 cents. DICKINSON & CO., 18t1 19 West 11th Street, N. Y.

**IF YOU** wish to get the cheapest Green-house and bedding plants, write for my free Price List. 20 good bedding plants for \$1. No two alike. Walter Coles, Florist, Claymont, Del. 18pd

**500 FARMS** FOR SALE IN TIDE-WATER VIRGINIA. Cheap and rich lands. Healthy and mild climate. Fish and Oysters in great abundance. 16-18 E. C. LINDSEY & CO., Norfolk, Va.

## JUST ISSUED.

A History of the origin of the celebrated Poland-China Breed of Swine. Added to which are several articles upon Swine Husbandry by the best American writers. Price 25 cents. Address the compiler, F. D. BECK, Bethany, W. Va.

**PANSIES** A SPECIALTY. The Best Quality in the Greatest Variety. Will send free by mail

100 Seeds for 25 cents, 500 Seeds for One Dollar. Descriptive Circular free to all on application. Mention Seed-Time and Harvest.

ALBERT BENZ, Little Neck, N. Y.

18pd

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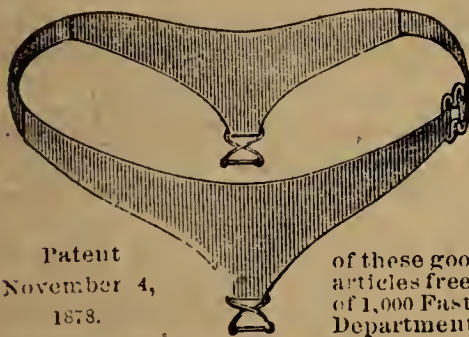
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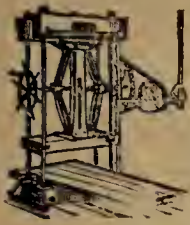
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## NOTES AND GLEANINGS,

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**CYRUS NEFF, OF Pennsylvania,** says his cows never did better than during December and January, when they were not out of their stalls for water. The stable was cleaned twice a day.

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**A CORRESPONDENT** who has been very successful in the cultivation of cauliflowers gives the following points as requisite to success: First, set plants late so as to grow and mature after the summer droughts. From the tenth to the twentieth of June is early enough. Select good deep rich soil and furrow it deeply both ways, three or four feet apart. Loosen up the soil to as great a depth as possible at the intersections and manure in the hill (or more properly hollow) with ashes, bonedust, or well rotted stable manure. Set the plants from six inches to one foot below the surface of the ground and in the heat of summer mulch around them with some loose material which will retain the moisture. In this way very fine, large heads may easily be grown in any locality.

**FERTILIZING WITH CLOVER.**—Nothing helps land so much as clover. Old, worn out fields can be put in a state of fair productiveness by sowing to clover and keeping in clover a few years. Clover makes good pasturage, and is especially valuable in seasons of drought, as it resists it better than any other pasturage crop. It likewise makes excellent hay. If cut in the proper time, saved in a proper manner, and put away in sheds and barns, it is the best hay for most kinds of stock that farmers can save. Plow the ground for clover eight or ten inches deep, if you can Harrow it nicely, and in March on a light snow, if it falls, sow the seed. It is better to sow it without any other crop.

**TIMBER CLAIMS.**—The amended law of the United States in respect to timber claims requires but ten acres to be planted to timber on each

quarter section, or a corresponding proportion on eighty and forty acre lots. The conditions are as follows. Five acres of each quarter section are to be broken the first year cropped the second, and the additional five acres broken. The third year five acres must be planted with trees 4x4 or 2,700 to the acre. The fourth year the remaining five acres which were cropped the third year is to be planted in the same manner. The trees are to be cultivated for eight years, when there must be 675 living trees to the acre. This obtains a patent for the land.

**THE HOME OF THE FARMER** has never been what it might be. The children on the farm have not found it as pleasant a place as it could and should be, the parents have not been the best companions for their children. Farmers have carelessly and willfully made farm life repellant to the rising generation. An increase in the performance of labor has made the hand grow weary. Failure to cultivate the mind has made the culture of the soil a servile trade. The opportunities to the farmer for broad and intellectual training are always within his own neighborhood and under his own control.—C. F. Clark son, of Iowa.

**FEEDING FOR PROFIT.**—Prof. W. A. Henry, at the Wisconsin Agricultural College, tried an experiment to show the quantity of food required to keep pigs alive. Two pigs with an aggregate weight of 10 pounds "just held their own on three pounds a day, and squealed all the time" Others of the same litter gained rapidly on four and a half pounds a day. The profit then came from the extra one and a half pounds.

**W. W. DUNHAM, of Maine,** has forty kinds of grapes under cultivation and mentions Eumelan, Salem, Delaware, Brighton and Lady as among those to be "especially commended for superior quality."

**MANURE FOR STRAWBERRIES.**—A correspondent of the "Fruit Recorder" says: "An experiment made last year by myself may not come amiss at this time with those who grow strawberries. I procured a half-bag of manure, filled it with

**TO START CUTTINGS.** Fill small bottles with warmish water, remove the lower leaves of the cuttings and place them in the water. Hang up the vial to a window where it will get plenty of light. The cuttings should have a bud at the base.

**ARABELLA**—"Oh! I do love a big dog!" George (with a tinge of sarcasm).—"Oh! I do wish I was a big dog!" Arabella.—"Don't worry—you'll grow."



**STANDARD BREEDS.**—At the late meeting of the American Poultry Association held at Worcester, Mass., three breeds of poultry of well-established reputation were admitted to the "standard," viz: Langshans, Leghorns, and Wyandottes, formerly known as American Seabrights. This will permit these breeds to contest at the Fanciers' Shows, having formerly been debarred, and the interest in them will undoubtedly increase for several years. Those who breed for the purpose of selling eggs and chicks to fanciers will undoubtedly make money by investing in these kinds.

**BEST LAYERS.**—As winter layers perhaps the Plymouth Rocks will do as well as any other breed, but the Langshans have an excellent reputation for "shelling out" eggs when the price is high, and are considered equal to any others taking the year together. One hundred and fifty eggs per year is a high average for any of the heavy Asiatic breeds, while a flock of fifty-one Leghorns with good care averaged 207 eggs each for Mr. Hamilton, and after deducting all expenses of food &c., gave him a clean profit of \$4.00 per bird, selling his eggs at 31 cents per dozen. The Hamburgs are also excellent layers, and like the Leghorns, are not inclined to sit. The best layers however, are generally small fowls and require a good deal of range.

FROM a western paper we extract the following practical table which will be useful to every one on a farm at least: There are 160 square rods to the acre, and there are 30¼ square yards in one rod. This gives 4840 square yards in one acre:

- 5 yds. wide by 968 yds. long is 1 acre.
- 10 yds. wide by 484 yds. long is 1 acre.
- 20 yds. wide by 242 yds. long is 1 acre.
- 40 yds. wide by 121 yds. long is 1 acre.
- 80 yds. wide by 60½ yds. long is 1 acre.
- 70 yds. wide by 69½ yds. long is 1 acre.
- 60 yds. wide by 80¾ yds. long is 1 acre.

Again allowing 9 square feet to the yard, 272¼ square feet to the rod, 43,560 square feet to the acre, and we have another table:

- 110 feet by 369 feet—1 acre.
- 120 feet by 363 feet—1 acre.
- 222 feet by 198 feet—1 acre.
- 240 feet by 1813 feet—1 acre.
- 440 feet by 90 feet—1 acre.

**PARIS GARDENERS.**—Perhaps there is no city in the world where so much is made out of the soil in its vicinity as Paris; its early kitchen garden delicacies are proverbial. There are veritable fields of asparagus, peas, strawberries

and violets. Of late years the cultivation of violets has taken an enormous extension, as also of figs in pots. Nice and Parma violets have more than a rival at present in the rich market gardens of the suburbs. It is not less singular than true that the inhabitants of the suburbs have to obtain their vegetables in the city markets. From 1,500 to 2,000 francs (\$300 to \$400) per acre, is the net average produce of a kitchen garden. The commercial cultivation of flowers is also becoming very productive, and as for mushrooms, they are a veritable "gold diggings." France alone consumes this esculent to the value of 9,000,000 francs (\$1,800,000) per year.

**TO GROW 60 BUSHELS OF OATS ON AN ACRE.**—Plow the ground in November; be particular to turn it all over; then in winter give a light coat of manure; spread evenly, from five to ten loads per acre, according to fertility of land. Early in spring, as soon as the ground is dry enough, sow the oats and work them in with a cultivator—going over, and then across; level the ground by going once over with a harrow, and roll if desired, thus getting them in early. A late snow storm will not hurt them. If not put in the ground early the ground gets hard—Husbandman.

I hear many farmers inquiring for a cabbage-worm remedy. I sold 30 pounds of saltpeter to J. A. Burnham of East Hartford, last winter, for that purpose. Put a little in water, and after it has stood for some little time sprinkle the cabbage with it. It is also good for bugs on vines. Two or three applications are sufficient, and it never fails.—J. W. Baker, Windsor, Ct.

**PARSNIPS AND SALSIFY** are not injured by freezing, and may remain in the ground and be dug as wanted, or during a mid-winter thaw. But they become poisonous after they begin to grow in spring.

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WILLIAM B. DWIGHT,  
Professor of Natural History, Vassar College.

"I have received the watch, and was well pleased with it. I have sold it for \$7.00. Send me another."  
J. J. HODGES, Waltham, Mass.

BROOKLYN, N. Y., October 10, 1881.  
WATERBURY WATCH Co.—Gentlemen:—One of your watches was presented to me at the beginning of the past season by one of the officers of this road. I was responsible for the time used on the road. I started all trains by your watch. Mr. Gunther, our President, stated that he never had the trains run so regularly as they were the past season. I showed him the watch I run them by, which was a Waterbury Watch that did it. I stopped every morning during the season, and compared the watch with the chronometer at the Long Island Depot, and found my watch did not vary half a minute the entire season. WM. S. BLYDENBURGH,  
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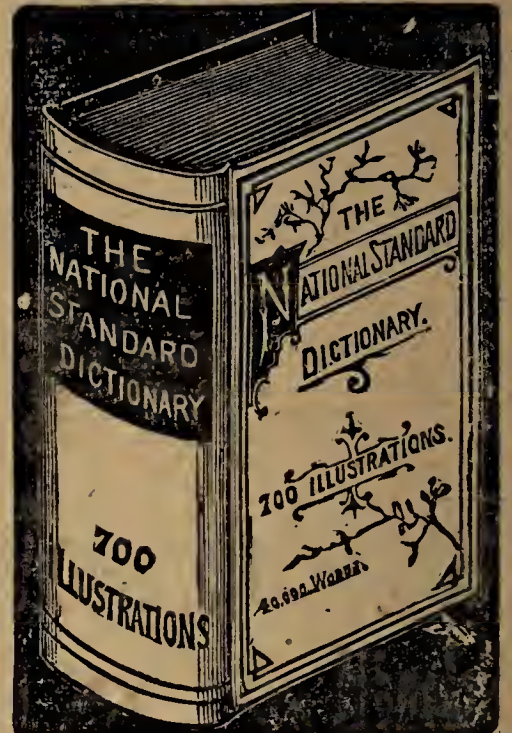
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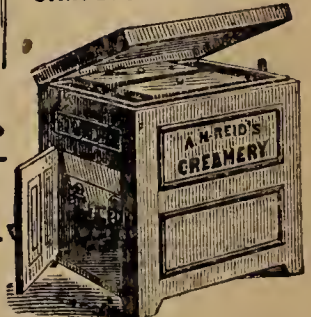
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Early Cluster.....	05	10	1.25
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Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	—

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Above Varieties Mixed.....	10	60	—



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President Garfield, New, .....	10	—	—		
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Island Beauty .....	05	.30	.60		
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Golden Rural, New, .....	05	.20	.40		
Saint Paul, (New) .....	10	.30	.60		
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Purple Top Strap Leaf .....	05	10	.80		
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| 10. Onion, " " .....                          | 5       |
| 11. Lettuce, " " .....                        | 5       |
| 12. Radish, best early varieties mixed, ..... | 5       |
| 13. Tomato, best " " .....                    | 5       |
| 14. Musk Melon, best " " .....                | 5       |
| 15. Water Melon, " " .....                    | 5       |
| 16. Spinach, round leaved, .....              | 5       |
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Rural Branching Sorghum .....	05	10	60
Mammoth Russian Sunflower ..		05	40
German Millet, [bu. on application,]		05	50
Pearl Millet .....	05	10	60
Potato Seeds from Wall's Orange 10			

**NOTICE.** Please do not order small quantities of varieties not named in our list. Should you, however want any considerable quantity of anything offered in any seedsman's catalogue, we can nearly always obtain it to advantage and will be pleased to quote prices on application. In case we cannot supply you we will endeavor to tell you where you can get what you want to best advantage.

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M. Rural Blush .....	.75	4.00	12.00	30.00
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L. Wells' Seedling .....	.75	1.00	3.00	8.00
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L. New Champion .....	.75	1.00	3.00	8.00
V. E. Early Sunrise .....	.75	1.25	4.00	10.00
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E. Brownell's Best .....	50	1.00	3.00	8.00
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M. White Star .....	50	.75	2.50	7.00
L. Cook's Superb .....	50	.75	2.00	5.00
L. White Whipple .....	50	.75	2.00	5.00
V. E. Clark's No. 1 .....	50	.75	2.00	5.00
M. Belle .....	50	.75	2.00	5.00
M. White Elephant, .....	50	.75	1.50	4.00
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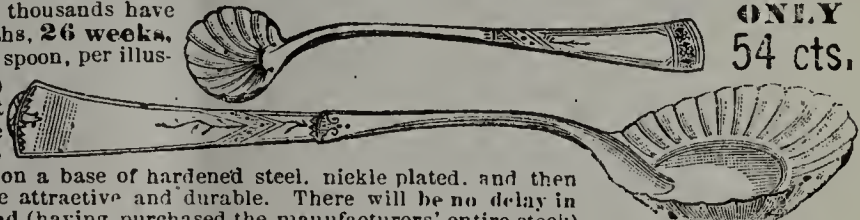
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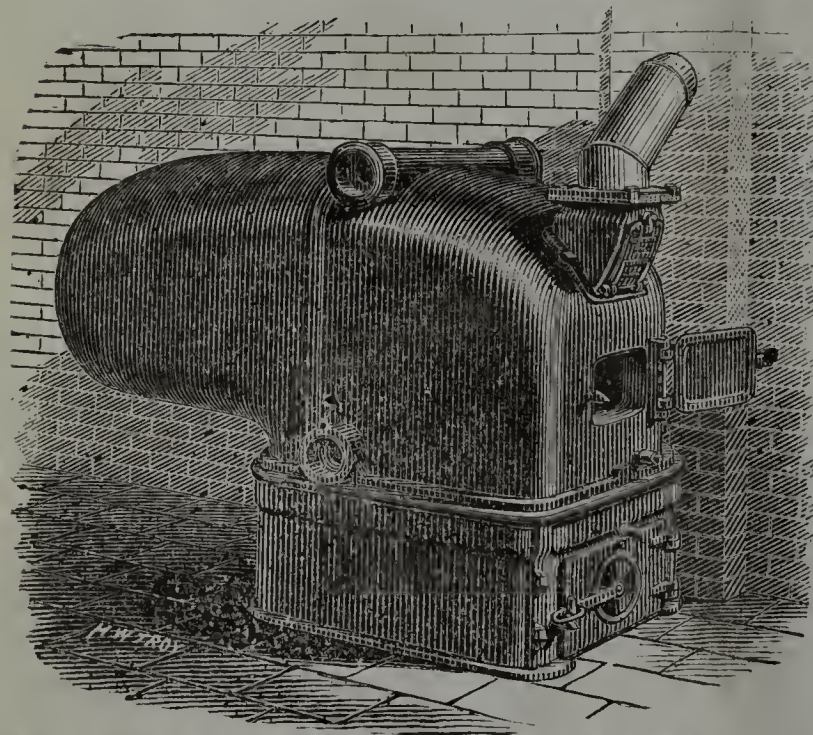


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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

— FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT. —

VOL. 4.

MAY, 1883.

NO. 5.



RHODANTHE.



## Cleopatra.

Cleopatra, Queen of Egypt, was one of the most brilliant and beautiful women the world has ever known, but her husband, Ptolemy Dionysius, who was her own brother, deprived her of her share of the kingdom and drove her to seek protection of the Romans. Cæsar was then emperor of Rome, and she used all her powers of fascination to win his favor, and succeeded.

When Cæsar was assassinated, she was accused of having assented in the crime, and was brought before Marc Antony for trial. Although coming to judgment, she came in the pride of beauty and anticipated triumph. Her galley was burnished with gold, its silken sails were filled with odors, and the silver oars, which were plied by the most beautiful maidens of Egypt, moved to the sweet sounds of music. The lovely Cleopatra, arrayed in slight drapery, reclined under a canopy on the deck, and appeared more like the dream of some sculptor or painter than like a human being.

Marc Antony was charmed with her person and talents and became her lover, neglecting his wife. But this woman of splendid attractions, who could make great men her slaves, and might have wielded an unlimited power for good, was ambitious, extravagant and unprincipled. After Cæsar's death, Antony aspired to the head of the government, but Octavius Augustus, grand-nephew of Cæsar, opposed him; a battle was fought for the sovereignty of the world at Actium on the Mediterranean, west of Greece, at which Cleopatra, with her sixty galleys, deserted him, and he, rashly abandoning the conquest, followed her off from the field of action.

She caused herself to be reported dead, upon hearing which Antony besought his faithful friend and servant, Eros, to kill him. Eros pretended to consent, but when Antony's face was turned away he killed himself instead. Antony was so touched by this proof of devotion, that he took the sword and wounded himself mortally, but lived long enough to be carried into the presence of Cleopatra. Here we find him in a magnificent apartment, its

walls of purest alabaster, polished like mirrors, and its columns of gold most delicately ornamented. Through the open windows are seen the dark, glossy leaves of the fig, the broad canopy of palms a hundred feet high, pavements of milk-white marble, cool as snow, and beautiful fountains of sparkling water.

On a couch which glows with the pictured fabrics of Eastern looms lies Marc Antony in almost superhuman majesty, his eyes closed the curls parted from his noble brow, but his face so natural that, but for the rigidity of the limbs, one might think he slept. Evidences of affection are all around; perfumes liberally sprinkled upon his auburn locks, and garlands of freshest flowers upon his cold limbs. Cleopatra sits beside him in speechless woe, with fixed yet vacant gaze. Unlike her regard for other heroes, she has loved him for himself, and not for his fame or power. Near them, on a table of the richest porphyry, negligently strewn with instruments of music, there stands a plain and common-looking basket, filled with the glossy leaves and purple fruit of the fig; they look very tempting, but there is a slight, rustling sound, at times, and a movement of the leaves, not regular, as if shaken by the breeze, but heaving up at intervals, as if some living thing was lurking underneath, and on a close examination, deadly asps are found crawling among the fruit; these serpents Cleopatra has applied to her bosom, and a very tiny spot of blood shows where the poison has been injected into her veins. Octavius, the successor of Cæsar, has conquered, and she will not be his prisoner; her hero is dead, and she will follow him.

Octavius comes himself, with all the nobles of his court, and flatters her with honeyed words, but she rejects his clemency with haughty scorn. He says: "We would have the beautiful Cleopatra among our friends: she is queen of Egypt still."

"By the great gods, I am! Nor is it in the power of all Rome to make me other! Free was I born and royal! Cæsar, I scorn your mercies, as I defy your menaces! My father left me a crown, and crowned will I go to my father!"



With this she flung her hand in defiance toward the victor, placed the antique crown of the Ptolomies upon her raven locks, and stretching herself upon the couch by the side of Antony, closed her eyes, gave one long convulsive shudder, and Cleopatra the beautiful was no more. Egypt never since has known a native sovereign.

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### ROOM ENOUGH FOR ALL.

Don't crowd and push on the march of life,  
Or tread on each other's toes,  
For the world at best, in its great unrest,  
Is hard enough as it goes.  
Oh, why should the strong oppress the weak  
Till the latter goes to the wall?  
On this earth of ours, with its thorns and flowers  
There is room enough for all.  
If a lagging brother falls behind  
And drops from the toiling band  
If fear and doubt put his soul to rout,  
Then lend him a helping hand.  
Cheer up his heart with words of hope,  
Nor season the speech with gall;  
In the great highway, on the busiest day,  
There is room enough for all.  
If a man with the tread of a pioneer  
Steps out on your track ahead,  
Don't grudge his start with an envious heart,  
For the mightiest once were led.  
But gird your loins for the coming day—  
Let nothing your heart appall—  
Catch up if you can with the forward man,  
There is room enough for all.  
And if by doing your duty well,  
You should get to lead the van,  
Brand not your name with a deed of shame,  
But come out an honest man.  
Keep a bright look-out on every side,  
Till, heeding the Master's call,  
Your soul should go from the world below,  
Where there's room enough for all.

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### The Resurrection Flower.

There is a rare flower, found only in the East, that has excited a great deal of interest on account of its mystery. Botanists have found it difficult to classify it, because it has properties belonging to different classes. It was brought to this country by Dr. Deck, who procured it from an Arab, to whom he had rendered medical aid in upper Egypt. As compensation, the Arab handed him a stem which held what seemed to be two bulbs of dried seeds. The Arab said he had taken it from an

Egyptian mummy, and that the flowers were very highly esteemed.

The peculiarity of the plant is that though apparently decayed and worthless, after being immersed in a glass of water for a moment, it expands slowly, but steadily, and a beautiful star-like flower appears to view, something between a passion-flower and a sun-flower, but more beautiful than either. After the flower has remained open for more than an hour its petals close just gradually as they expanded, and then nothing is visible but the dried up bulb.

Dr. Deck says he saw the same flower go through this process at least a thousand times, and each time with the same result. He presented one of his flowers to Baron von Humoldt, who considered it one of the greatest marvels in the vegetable kingdom. Prof. Torrey owned a specimen, and Bishop Wainwright obtained two during his tour in Egypt.—*Southern World*.

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### VERNAL LEAVES.

THE rapid growth of vernal leaves  
The eye beholds once more,  
In glancing through the forest aisles,  
And 'long the river's shore.

THE mountain wood, in verdant green,  
That looked so brown and gray,  
Is richly dressed in leafage now,  
With which the zephyrs play.

THE stately rows of hamlet trees  
Their shade throw on the ground,  
And every shrub and leafy plant  
Again with leaves abound.

THEN, teeming through the summer time,  
They shall grow green and bright,  
Till, ripened by the mellow days,  
And seared by autumn's blight.

S. A. MUNSON.

---

The "Air Line"—A kite-string.  
Bred upon the waters—Mosquitoes.

A woman may kiss a tobacco chewer if she chews.

A Nebraska belle is engaged to Mr. C. Lemon. Lemonade?

The old saying is, "throw physic to the dogs," but where will you find the dog that will touch it?

The fellow who couldn't get a discount denounced bank bills as only make believe money. Sour grapes.



## Some Bee Notes.

BY CONNOISSEUR.

The Bee-keeping of to-day is far in advance of what it was twenty years ago, and he who would make a success of it must keep posted with regard to the latest discoveries in the science and use the most improved appliances for accomplishing the great object, which with most people is the production of a large yield of honey and the getting of a good price for it.

Of the various kinds of bees, the Italians are taking the lead at present and are likely to continue to do so, on account of their gentle dispositions and their ability to gather much more honey than the black bees are capable of doing. Much has been written of late concerning the "coming bee," but the majority of apiarists regard their own strain with the most favor, and perhaps it is just as well for different apiaries require different management and the owner of a colony of bees soon learns its disposition and can generally obtain better results from it than anyone else, provided always that he gives it the same time and attention.

A SWARM or colony of bees consists of a queen, a few hundred drones and from twenty to thirty thousand workers. The queen is the only perfect female or mother bee in the hive and usually lays all the eggs which frequently number from two to three thousand per day in the busy season. The drones are male bees and are generally driven out of the hive and killed in the fall of the year. The worker bees are undeveloped females and in the summer season, when working hard, live only from four to six weeks, but have been known to live for seven or eight months in cold weather. For the first week or two of the worker's life it builds comb and acts as nurse for the young brood, but after that it goes out and gathers honey and pollen. A full hive of bees is a regularly organized band of workers and an excellent model of industry for the human family.

HIVES.—Frame hives, or those containing frames in which comb is fastened and which may be easily moved from one hive

to another as necessity requires, are the only kind of hives that can be used to advantage in securing large amounts of surplus honey. Large apiarists generally make their own hives, doing the work in the winter season when their bees do not require their attention. For those who use only a few hives it is generally cheaper and better to have them made by some manufacturer of apian supplies than to undertake to make them themselves, as when made by machinery they are more perfect than those made by hand and are all exactly one size, so that the parts are interchangeable. Of the various sizes, that devised by Rev. L. L. Langstroth seems to find most favor in the United States, though there are many very successful apiarists who use and recommend other sizes both larger and smaller than the Langstroth.

From our own observation it makes but little difference what particular hive is used, only so that all of the hives in the apiary are of the same size.

ATTEND TO YOUR BEES.—Many persons who engage in bee-keeping equip themselves with movable comb hives and then give them no more attention than they formerly gave the old box hives. The result is, that the bees do not do any better, and many times not even so well, as they did in the box hives, and the owner naturally becomes disgusted with the result and pronounces the new-fashioned hives a failure.

COMB FOUNDATION.—One of the most useful inventions of the age connected with bee-keeping is that of the comb foundation. Foundation consists of a thin sheet of pure wax with hexagonal or six-sided indentations on either side of it in imitation of newly formed cells as made by the bees themselves. These indentations are not exactly opposite each other but are just sufficiently removed so that a part of the bottom of one cell shall form a part of the bottom of another on the opposite side of the sheet, and when the cells are drawn out by the bees it becomes very strong comb and equally good, if not better, than that made entirely by the bees. The formation of foundation is effected in different



ways, the principal ones being the pressing of sheets of wax between two surfaces of metal or other hard material, on which are raised portions which indent the wax, or passing the sheets of wax through rollers to accomplish the same object.

If a swarm of bees that have just left the parent colony, be given a hive filled with frames of foundation they will immediately build it out and store honey in it, sometimes carrying in several pounds within forty-eight hours which they could not do if they had to build all of the comb for it.



DWARF HELICHRYSUM.  
**Everlasting Flowers.**

The Everlasting (or, as they are more commonly called, *Eternal*) Flowers are attracting considerable attention at the present time, on account of their beauty in the flower border as well as their use and value for winter decoration. As they retain their form and color for several years, they make, when mixed with a few ornamental grasses, very pretty bouquets, baskets, wreaths, etc. In the flower border during the summer season they are, when well grown, remarkably attractive, and on this account alone, well worth cultivating. In addition to these useful qualities, several of them are valuable for bedding and massing, equaling in effect some of the best ribbon plants.

In order to preserve the flowers of Everlastings, it is necessary to pay some attention to the time of gathering them. The flowers, with the exception of the *Gomphrenas*, should be gathered before they are fully expanded and hung up in a dry, dark

closet until they become perfectly dry. They require to be tied in small bunches, so that they will not mildew and that the stems dry straight.



ACROCLINIUM.

To cultivate Everlasting Flowers so as to obtain satisfactory results, it is absolutely necessary to give them sufficient room in the flower border to properly develop themselves; and in order to guard against drought it is also necessary that the soil should be both rich and deep. To effect this object, the flower bed or border should be dug over to the depth of at least two feet, and a good portion of well-rotted manure or leaf-mold thoroughly incorporated with the soil.



AMMOBIUM ALATUM.

*Acroclinium roseum* and *A. album* are two very pretty and distinct varieties, the former being of a bright rose color and the latter pure white. This species is of strong growth, attaining a height of about two feet

(Continued on page 8.)



## MAY.

YOUNG May is on the mountain!  
 The valley, hill and plain  
 Resound with notes of gladness  
 At her return again.  
 The brook sends up its music,  
 The wild bird trills her lay;  
 From dawn till evening shadows  
 She carols on the spray.

YOUNG May is here to greet us,  
 With her bright and glad some hours,  
 Bearing on her balmy pinions  
 The breath of early flowers;  
 The violet by the brooklet  
 Looks up with loving eye,  
 And with her gayer visitors  
 Smiles as she's passing by.

SWEET May, thou'rt ever welcome,  
 And our hearts oft swell with grief,  
 That one so fair and winsome  
 Should have a stay so brief.  
 We'd joy to have thee linger  
 Forever in our bowers,  
 To cheer us with thy brightness,  
 Thy singing birds and flowers.

THEDA C. E.—

### Growing Tomatoes.

Some time ago, I promised if you desired, to give you my method of growing tomatoes, and also my experience and that of some of my neighbors in growing celery. You say it will please you to have me do this, so I have concluded to begin with tomatoes. Celery is a kind of second crop, and as what I have to say about the growing of it is mainly in the handling and bleaching, I will write again before the time comes to do that work.

I raise all my early plants in a cold frame. Formerly I made a hot bed, but found it did not pay for the extra trouble. There is very little sale for plants here, and none whatever for the matured vegetable, so I only raise enough for my own family. The frame I have is in a sunny part of my garden, and raised a foot from the ground. About eighteen inches from the sides of the frame I have boards, which at the back and sides are nearly the height of the frame; between the frame and the boards I fill in with forest leaves, well trod down, these help to keep in the heat and also keep out the cold. The soil in the frame is com-

posed of about equal parts of well rotted manure and leaves, with good garden soil and sand. About the last week in March I dig over the soil in the frame and make it fine, and then put on the glass for three or four days, so as to get the soil warm. Then I sow my tomato seeds, taking a little extra trouble and time, first being sure my seed is good. I sow the seed on the surface, and no nearer together than an inch apart, if any of them come up thicker I pull them out, but would rather not disturb the plants in the seed bed. After I have sown the seed, I press them in well with a trowel, then cover with from an eighth to a quarter of an inch of nice sand, which I know to be free from weed seeds, then water well, and always with tepid water. I never let the seeds or plants get dry in the frame. Then put on the glass and let it stay until the plants make their appearance. After that I take off the glass when the days are fine, and keep it on nights and stormy days, and if there are any sign of frost, cover with a blanket. When the plants are four or five inches high I do away with the glass altogether. Usually the first week in June I prepare and rake over the ground where the tomatoes are to grow; get a strong garden line the length of the row I want, and here let me say, the longer the row the better to keep clean, either by hand or horse power. I then drive down pegs at each end and stretch the line very tight, then step on the line from end to end. This makes a very straight and distinct mark. If more than one row is wanted I measure off four feet from each end of the first row, then strike another line as before, and so on for as many as may be wanted. Then I get my stakes, but here I had better describe them. Any hard or soft wood will do for stakes, if anything like straight. For part of my stakes I am now using the limbs of soft maple trees; if such cannot be had, good stakes can be made from fence rails. Take 14 feet fence rails, free from large knots, strike a chalk line in the middle and from end to end, then saw in two and divide both into equal parts, these will make four stakes 7 feet long 3 inches wide and one inch thick; then sharpen the end of each.



When new, I always give my stakes two or three coats of boiling hot coal tar for about 18 inches of the sharpened end, and if properly taken care of they will last for years. Having the stakes ready I get a heavy hammer and drive down a stake about ten inches or a foot, and at the head of and to the line. Two and a half feet from the other I drive down another stake in the same way. And if the stakes are made of fence rails, I let the broad sides face north and south, and it does not make any difference by this method whether the rows run north and south, or east and west. I have grown tomatoes by the last named for over a dozen years. After all the stakes are driven I commence to transplant the tomatoes; if there has been a recent rain, all the better, but if the weather is dry I do not wait; in that case, I get a pail of water and a basket of fresh cut grass. I then take the tomatoes out of the frame and transplant one to the south side of each stake, giving each plant about a quart of water, and then insert a handful of grass underneath each plant, putting two or three clods of earth on the grass to keep it from being blown away. If the weather remains dry, each plant will drop down on the grass through the day and get up again at night; when the grass becomes dry the plants are established. I do not lose one plant in a score this way, and it will do just as well for cabbage and cauliflower as tomatoes. When I have finished transplanting, I do nothing more but to keep them clean and the soil around each plant loose. In about three weeks the plants will have made their first blossoms, which always come out on the main or leading stalk. In the axil between the leaf and stalk, a shoot always forms, and generally there is two, sometimes three, shoots below the first blossoms on each plant. I then take a sharp pen knife and cut out all the shoots below the first blossoms; then tie up the plant to the stake just below the blossoms. For that purpose I use old woolen or cotten cloth cut into strips which I find to be the cheapest and best. Beyond keeping them clean I do nothing farther until the next blossoms come out, then I go over the vines and cut out all the shoots

that have formed between the first and second blossoms, and so on until each tomato vine reaches the top of each stake, tying them to the stake about three times. Then I do not prune any more at the top, but keep off all shoots down below, for it is a fact that always two, sometimes three shoots will start from the same place. If any accident should happen to the leading shoot at the top of the vine, then another or the next shoot must take its place.

I do not claim that I originated this method of growing tomatoes, although I have practiced it for over twenty years, and have never yet met with a failure. No matter what kind of a season it may be, this plan always gives satisfaction, and plenty of ripe tomatoes. Having no side branches the plant pushes up to the top of the stake with great rapidity. The fruit is not smothered by the foliage, and ripens and colors up evenly. The tomatoes are always large, well formed and of good flavor, and they will not average one rotten tomato to a bushel, and last but not least, the fruit is easily gathered, especially by the women, as even after a rain they can go and gather the tomatoes and not wet their skirts. In the March number of SEED-TIME AND HARVEST I see some one recommends tying tomatoes to sunflower stalks. I do not like that method, I think the tomatoes ought to have the whole ground and above all things, I think hens ought to be kept out of a garden. There is also another reason why I object to the sunflower as a stake for tomatoes. If there was more than one row of tomatoes the sunflower would shade the next row behind; now no tomato ought to be grown in the shade, especially of houses and trees. If any of your readers think of adopting this method of growing tomatoes, I hope they will not make the mistake of cutting away the leaves. A leaf is not a shoot; the shoot will make a branch and many leaves if allowed to grow. I have written this out at length, mainly for the benefit of amateurs like myself, more particularly those that know little or nothing about tomato culture.

[Our correspondent referred to, meant to recommend dry sunflower stakes of previous year's growth, we think, and not growing plants.—ED.]



(Continued from page 5.)

and produces a great number of daisy-like flowers with a yellow center. To preserve the flowers of the *Acroclinium* with a bright center, they should be gathered the first day they open.

The wing-stalked *Ammobium alatum* is one of the most distinct as well as the hardest of the Everlastings. The plant grows over two feet in height, and the stem is stiff and angular in appearance, the pretty little flowers being of a pure white color. A new variety, *A. alatum grandiflorum*, with flowers twice as large as those of the original species, is one of the latest novelties.



GOMPHRENA. (*Globe Amaranth*.)

The Globe Amaranthus, *Gomphrena globosa*, and its varieties grow about two and a half feet in height, and are, when well grown, among the most handsome and showy Everlastings. The flowers of the Gomphrenas should not be cut before they are of full size, but they must not be left until the lower scales commence to drop off or become injured. The Gomphrenas are also valuable for massing on the lawn, and, if arranged with regard to the color of their flowers, present a highly attractive appearance. They also possess the desirable quality of standing our hot, dry summers without injury, and as the flowers are produced in the greatest profusion from June until frost, and remain in perfection for two or three weeks, I do not think that more can be said in their praise.

*Helipterum Sanfordii* is an extremely graceful and pretty species, of dwarf branching habit, growing about one foot

in height, and producing its rich golden yellow flowers in clusters. *H. corymbiflorum* is pure white. The flowers of this genus require to be cut when the heads are about opening, as they expand during the drying process. They retain their color and brightness for years.



HELICHRYSUM MONSTROSUM.

The *Helichrysums* form exceedingly useful ornamental plants for the mixed border. *Helichrysum monstrosum floro pleno* grows about two feet high, the double flowers being large and showy, and of various colors—white, yellow, purple, and rose, with their various shades. *H. elegans* and *strictum* grow about a foot in height; they are of branching habit with elegant silver foliage and yellow flowers, somewhat resembling Immortelles.

*Rhodanthe* is another very graceful genus of compact growth, producing its neat and pretty flowers in the greatest profusion. *R. Manglesii* is a most beautiful and delicate species, but unfortunately does not often succeed in the flower border. *R. maculata* is a more hardy and robust species, and is perfectly at home in the flower border. It is of a rosy purple color, with a bright yellow center. *R. atrosanguinea* has dark crimson flowers with a dark violet center, while *R. atrosanguinea alba* is pure silvery white.



The *Waitzias* are also pretty Everlastings, producing their flowers in clusters. *W. grandiflora*, yellow, and *W. corymbosa*, red, are the two best kinds. The flowers should be gathered early, as the center soon becomes discolored.

The *Xeranthemums* are remarkably free-flowering Everlastings, of neat, compact habit, growing about one foot in height, with silvery white leaves, and producing their flowers on long stalks. *X. album*, white, and *cœruleum*, blue, are the two most distinct sorts.



XERANTHEMUM.

The seeds of the *Gomphrenas* do not germinate freely unless sown in heat, and the cottony coating with which they are surrounded removed. These, the *Helichrysums* and the *Ammobiums*, should be sown thinly in a shallow box of light soil and covered lightly. As soon as the plants are strong enough to handle they should be transplanted into other boxes and kept close until well established. The seeds of *Acroclinium*, *Xeranthemum*, *Rhodanthe*, *Waitzia* and *Helipterum* can also be sown in a

similar manner; they all require a treatment similar to that advised for *Gomphrenas* as regards transplanting, etc. When they have become well established after being transplanted, they should be removed to a cold frame and gradually exposed to the open air and planted out in the flower-border when all danger of frost is over.

The seeds can also be sown in a cold frame in April, or in the open ground on a well-prepared border in a sheltered situation after the tenth of May, and the plants removed to the flower-border when strong enough. When sown into a cold frame they require to be transplanted into boxes or other frames before they are removed to the open air.

The *Gomphrenas* form an exception to this rule; they require heat, and should be sown as directed above.—*Chas E. Parnell*, in *The American Garden*.

#### Brooklyn Bridge Statistics.

FIRST talked of by Col. Julius W. Adams, about a quarter of a century ago.

Act of incorporation passed April, 1866.

Survey begun by John A. Roebling, 1869.

Construction begun January 2, 1870.

First rope thrown across the river Aug. 14, 1876.

Master-Mechanic Farrington crossed in a boat-swain's chair August 25, 1876.

Depth of the New York foundation below high-water mark, 78 feet 6 inches.

Depth of the Brooklyn foundation below high-water mark, 45 feet.

The New York tower contains 49,945 cubic yards of masonry; The Brooklyn tower, 38,079.

Weight of the Brooklyn tower, about 93, 214 tons.

Weight of the New York tower, about one-third more.

Size of the towers at high-water line, 150x59 feet; at roof course 136x53 feet.

Height of the towers above high-water mark, 276 feet 6 inches.

Height of roadway in the clear in the middle of the East River, 135 feet.

Grade of the roadway, 3 feet 3 inches to 100 feet.

Width of promenade in center of bridge, 15 feet 7 inches.

Width for railway on one side of the promenade 12 feet 10 inches.

Width of carriage-way on the other side of the promenade, 18 feet 9 inches.

Length of main span, 1,595 feet 6 inches.

Length of each end span, 930 feet.

Length of Brooklyn approach, 971 feet.

Length of New York approach, 1,560.

Length of each of the four great cables, 3,578 feet 6 inches; diameter, 15¾ inches; number of steel galvanized wires in each cable, 5,434; weight of each cable, about 800 tons.

Weight of steel in the suspended superstructure, 10,000 tons.



### Incubators.

There is much curiosity regarding artificial poultry-rearing, and the incubator men, if they are good business men, should be driving a lively trade. Inquiries reach us nearly every week about artificial hatching and rearing. Some in earnest search after information and others mostly out of curiosity.

As is known to many of our readers we have never been very enthusiastic over the incubator, not because it is not feasible, but mainly because the average poultry-raiser is not ready for its purchase. To make a practical success of the incubator it is necessary to study it and to learn how to operate it. The business is one requiring an apprenticeship as much as the management of a locomotive and it will take nearly as long to learn it. Great harm has been done by foolish enthusiasts in presenting the business in print as a very simple and easy thing to manage. Many are led to believe that it is just as "easy as rolling off a log." Whereas, the fact is that much care and intelligence are required to make the thing go at all.

At the annual meeting of the board of Agriculture of New Jersey, this question was brought up, and information asked. Several persons stated that they had failed; others said they had no trouble to hatch the chicks, but failed in rearing them after they were hatched. One gentleman reported that he had succeeded quite satisfactorily hatching and rearing.

This is perhaps the average experience in the business. Our impression is that those who are about to engage in it would do well to pay particular attention first to artificial brooding. When they have mastered the details of this part of the business they are prepared to engage in the hatching process. It is conceded on all sides that it is much easier to hatch the chicks than it is to rear them.

The writer is not in a position to speak from experience on the subject. He has seen chickens hatched in incubators, and seen them reared artificially with entire satisfaction to the operator, and therefore

knows it can be done. No one is advised to invest in artificial poultry rearing; but all are cautioned that it is somewhat risky and uncertain. The right persons will succeed.—*Farm Journal*.

### WISDOM FROM THE CATALOGUES.

SOWING THE SEED.—*D. M. Ferry*.—There is no more prolific source of disappointment and failure among amateur gardeners than hasty, careless or improper sowing of the seed. A seed consists of a minute plant minus the roots, with a sufficient amount of food stowed in or around it to sustain it until it can expand its leaves, form roots, provide for itself, the whole inclosed in a hard and more or less imperious shell. To secure germination, moisture, heat, and a certain amount of air are necessary. The first steps are the softening of the hard, outer shell, the developing of the leaves of the plant from the absorption of water, and the changing of the plant food from the form of starch to that of sugar. In the first condition the food was easily preserved unchanged, but the plant with its undeveloped leaves and no root was incapable of using it, while in its sugary condition it is easily appropriated; but if not used it speedily decays itself and induces decay in the plant. A seed then may retain its vitality and remain unchanged for years, while after germination has commenced, a check of a day or two in the process may be fatal. There is no time from that when the seed falls from the parent plant until it in turn produces seed, ripens and dies, when the plant is so susceptible of fatal injury from the overabundance or want of heat and moisture as that between the commencement of germination and the formation of the first true leaves, and it is just then that it needs the aid of the gardener to secure favorable conditions. These are:—

*First*—A proper and constant degree of moisture without being soaked with water. This is secured by making the surface of freshly dug soil so fine that the smallest seeds may come in immediate contact on all sides with the particles from



which they are to absorb the required moisture, and the pressing of the soil over the seeds so firmly with the feet or the back of the hoe that the degree of moisture may remain as nearly as possible the same until the plants are up.

*Second*—A proper degree of heat, secured by sowing each variety of seed when the average temperature of the locality is that most favorable for its germination. This may be learned from a careful study of the following pages and the experience of the most successful gardeners of your vicinity.

*Third*—Covering the seed to such a depth that while it is preserved at a uniform degree of heat and moisture, the necessary air can readily reach it, and the tiny stem push the forming leaves into the light and air. This depth will vary with different seeds and conditions of the soil, and can be learned only from practical experience. In general, seeds of the size of the Turnip should be covered with half an inch of earth pressed down, while Corn may be an inch, Beans two or three, and Peas two to six inches deep.

*Fourth*—Such condition of soil that the ascending stem can easily penetrate it, and the young roots speedily find suitable food. We can usually secure this by thorough preparation of the ground, and take care *never to sow fine seeds when the ground is wet.* Occasionally a heavy or long continued rain followed by a bright sun will so bake and crust the surface that it is impossible for the young plant to find its way through it, or a few days of strong wind will so dry the surface that no seed can germinate. In such cases our only remedy is to try again.

**SOWING FLOWER SEEDS.**—*Nanz & Neuner.*—The general rule for sowing flower-seeds, as well as any other kind, is to sow them at a proper depth, and the depth at which they are sown should, in every instance, be governed by the seed itself. As the sprouts of the small seeds are naturally small, if sown as deep as large seeds, they will be unusually long in starting, or, more likely, perish in the ground after sprouting for want of strength in the young sprouts to force a passage through the soil. Very small seeds, such as Portulaca, Lobelia, etc.,

should be merely sprinkled on the surface of the ground, after making it quite smooth, and barely covered with fine-sifted, light, mellow soil, and afterward protected from the scorching sun and heavy rains by a cloth, mat or some green branches around it. It is to facilitate the germination of fine seeds that hot-beds or cold frames are useful. By being protected at the sides and ends with boards and covered with glass, they confine the moisture which arises from the earth, subject to changes of temperature, as a uniform state can be maintained, no matter what the weather may be. Care, however, is required to prevent scorching the young plants. In bright days, the heat is intense inside the frames, and unless air is freely given, or some course taken to obstruct the rays of the sun, most likely a great portion of the plants will be ruined. When the sun gets pretty warm, give the glass a thin coat of whitewash. This gives a little shade, and with some air during the middle of bright days will make all safe.

**TUBEROSES.**—*Wm. Rennie.*—The Tuberose is one of the most delightfully fragrant and beautiful of summer-flowering bulbs, throwing up spikes of double white flowers, two or three feet high, which remain in bloom a long period. The bulbs may be planted from February to May. When they are needed very early, they may be planted in the greenhouse or hotbed in February or March, and for a succession of flowers, in April and May. In planting remove the useless small offsets around the main root, and place a single tuber in a pot four or five inches wide. Use good loam and leaf-mould, with good drainage. Start them slowly upon a temperate heat, in the hotbed or forcingpit, or later in the season in a frame. Water slightly at first, and when the bulbs begin to grow increase the quantity. Those started early should be supplied with a good bottom heat till May, when they may be shifted into pots six or seven inches wide. By the first of June, all may be plunged out in a warm border, staking each plant to prevent their being broken by the wind. On the approach of cool weather in September, those remaining in bloom should be remov-



ed to the conservatory or parlor, where they will continue in flower a long period.

A SURE REMEDY FOR THE CABBAGE WORM.—*Samuel Wilson.*—As the cabbage crop has lately become very much injured, and sometimes almost entirely destroyed, by that troublesome pest—*The Green Cabbage Worm*—numerous and various remedies have been tried to destroy or keep away this injurious and destructive insect. After trying nearly everything we could think of without receiving much benefit we have adopted the following remedy which has proven a complete success when properly and timely applied: With four pounds of dry, fine, light wheat bran mix one-half pound of strong, finely-ground cayenne pepper. Then dilute one ounce of *Carbolic acid* (which can be had at any drug store), with one quart of water; with this water thoroughly sprinkle and mix through the bran and pepper. Spread out thinly on a board or thick paper to dry. When thoroughly dried, put in a tight jar or box until used. With this preparation dust your cabbage plants in the morning while wet with dew. Commence when 6 or 8 inches high, and repeat the operation twice a week until out of danger. *Carbolic acid*, although entirely harmless, is very unpleasant and injurious to the insect tribe. The butterfly or miller that lays the eggs from which the worm is hatched will not alight on the plant that has the smell of the carbolic acid, and if any should happen to alight long enough to lay an egg, the cayenne pepper will destroy the young grubs as soon as they begin to eat. This remedy is entirely harmless.



COCOANUT SQUASH.



PERFECT GEM SQUASH.

### What to Do With Your Wild Oats.

“A boy must sow his wild oats.” In all the wide range of English maxims there is, perhaps, not one, take it all in all, worse than this. Look on it on what side you will, it is a bad one. “Whatsoever a man soweth,” be he young, or old or middle-aged, “that shall he also reap.” So says the word of God. The one only thing to do with wild oats is to put them carefully into the hottest part of the fire, and get them burnt to ashes, every seed of them. If you sow them, no matter in what ground, up they will surely come, with long tough roots like couch grass, and luxuriant stalks and leaves—a crop which it turns one’s heart cold to think of. The devil, too, whose special crop they are, will see that they thrive, and you will have to reap them. No common reaping will get them out of the soil; it will have to be dug down deep, again and again—and well for you if, with all your care, you can make the ground sweet again before your dying day.



ESSEX HYBRID SQUASH.



### Bee-Keepers' Conventions.

The growing interest in Bee-keeping has resulted in establishing local meetings or conventions of those interested in the production of honey in various parts of the country. These meetings are productive of much good, as the novices will learn much from the experience of others.

We had the pleasure of attending a meeting of the Keystone Bee-keepers' Association at Scranton, a few days ago. This is the only society of the kind in Northeastern Pennsylvania and much interest was manifested by those present. The society numbers some fifty members owning from six to two hundred colonies of bees. The questions discussed were, The Production of Surplus Honey, Wintering Bees, and Rearing Queens. Mr. J. Vandervoort of Laceyville, Pa., the inventor of the Vandervoort Fountain Machine, was present and exhibited some of the finest sheets of foundation we ever saw. All present agreed that a much larger yield of surplus honey could be secured by the use of foundation than without it. It was generally agreed by those who had tried it, that the foundation for the lower frames or brood chamber should be secured by fastening with fine wire drawn through the frames several times from top to bottom. These wires stiffened the frames and kept them from sagging, a fault which is quite common in unwired frames and results in the breaking down of combs in hot weather. For the section boxes small triangular pieces of thin foundation were recommended.

Different methods of wintering were described by the members present, and as most of them had lost more or less bees, it was agreed that no perfect method had been discovered yet. Mr. Geo. C. Green of Factoryville, who had lost a very small percentage for the past four years, advocated the use of the chaff hive, as also did several others. There appeared to be no professional Queen Breeders present but a few chapters from Mr. Alley's new book on Queen Rearing were read and proved to be very instructive.

It was decided to make a Society Exhibit

at the next Lackawanna County Fair and we presume that some fine specimens of the work of the industrious little insects will be exhibited.

The Constitution and By-Laws of this Society are very plain and simple and requires very little machinery to run it and we recommend that our bee-loving friends in all parts of the country unite in forming these local societies for mutual aid and improvement.

**The Silk Industry.**—The Womens' Silk Culture Association of No. 1328 Chestnut St., Philadelphia, offers \$500 in premiums for the best single pounds of cocoons produced during the season of 1883. Entries to be made not later than Dec. 1, 1883. The \$500 will be divided into ten premiums consisting of 100, 75, 65, 60, 50, 45, 40, 30, 25, and 10 dollars respectively. The lots in competition will be tested by experts who will reel the silk and award the prizes according to the quality and quantity of silk produced. The cocoons for which prizes are given will become the property of the Association.

A faithful brother in a Fairfield (Conn.) church recently prayed for the absent members, "who were prostrate on beds of sickness and chairs of wellness."

We frequently see it stated that a scheme is on foot. Wouldn't a scheme be advanced faster if it could be got on horseback?

Curious, isn't it, that some people greatly troubled with sleeplessness get over that difficulty so soon after settling into their pews on Sunday.

Live within your means and nobody will know how much you have ahead; but the moment you borrow a cent people will know how poor you are.

### FLOWERS.

BY W. B. DERRICK.

SWEET, lovely flowers, so bright and fair,  
Born of the sunshine and the air,  
On dews sustained, with nectar filled  
That from Ambrosia was distilled,  
Mellifluous gifts from Heaven above,  
In tokens of effulgent love;  
I love them, for they cheer the heart,  
Bright hopes inspire and joys impart. ;

*Baileyville, Ill.*



### Improving Potatoes.

BY THOMAS D. BAIRD.

It is very evident that seed potatoes brought from the north and planted here will yield at least one-third more to the same amount of seed than seed grown here. And northern grown seed planted here will diminish in size and yield every year until they get on a common level with "home grown seed."

From two experiments I am convinced if potato growers would plant with an eye to improvement there would be no need of getting northern seed so often. It is plain to the observing eye, that the seed end of the potato has more eyes and closer together, than those at the stem end have. This fact caused a test to be made. The potato was cut near the middle, and each end cut to single eyes and planted one eye in a place. After the plants were up, it was noticed that the plants from the seed end were the weakest looking plants. And at digging time the potatoes from the seed of the seed end were quite small, while those from the seed of the stem end of the potato were nice and large. But, fearing there might have been some difference in the soil, the next season another experiment was made. The seed was cut in the same way as in the first trial, and planted in alternate rows that there might not be any difference in the soil. After the seed was planted, manure was spread over the seed as equally as could be. The rows were labeled that there should be no mistake made. After the plants were up those from the seed end were the weakest. When the potatoes were dug the potatoes from the seed end would not average more than a third the size of those from the stem end of the potato. From these experiments I believe potatoes might be improved by planting seed of the stem end of the potato. This season I shall try the experiment and count and weigh the potatoes from each seed.

A fool in a high station is like a man on the top of a mountain; everybody appears small to him, and he appears small to everybody.

### Economizing Space in the Garden.

BY W. D. BOYNTON.

A piece of ground devoted to vegetable gardening is usually brought up to the highest possible degree of productiveness by cultivation and fertilizing. Such space is, of course, much more valuable and capable of doing much more for you in return than an equal amount of space in the average field. Still I have seen many farmers sow a patch of dwarf peas early in the spring, on such land, gather them the last of June, or the first of July and let this spot of garden soil, capable of producing three such crops, be idle the remainder of the season, or, rather, let it grow up to weeds. The same may be said of the space occupied by the early radishes, lettuce, corn, potatoes and many other vegetables.

In a well managed garden, very little space will be left unoccupied for any length of time during the growing season. As one crop is gathered another will take its place, and where insects, poor seeds or other mishaps have left a vacancy the gardener should fill them at once with some crop appropriate for the time and place. Where early potatoes have been taken off the last of June or the first of July, late cabbage for winter use may be set out. When peas have been taken off still earlier, say the middle of June, cucumbers for pickles may be planted, and even beets may be sown, often yielding better and keeping longer than those sown earlier in the season. Sweet corn for late use may be planted between the rows of potatoes which are soon to be dug. The principal crop of peas will also do better if planted from the 10th to the 15th of June, as they are less liable to attack from the weevil, which, earlier in the season, deposits its eggs in the young growing fruit.

Who would not rather have a garden present something of a miscellaneous appearance instead of having the vacant corners filled with purslain or pig-weed. Such economy of space will also lead the gardener into the habit of providing a better supply of vegetables for the table all through



the summer. By keeping the otherwise waste places filled with late peas, corn, lettuce, radishes, etc., he will be providing a constant succession which should always be the main object in conducting a garden. Many gardeners are satisfied by having two or three messes of each vegetable in its order—just enough to make one want more—and the vacated space is at once taken possession of by the weeds.

A crop of weeds upon which the seeds are allowed to ripen is a much greater drain on the soil than any garden crop would be, saying nothing of the labor they will cause in after years by this wholesale method of seeding down to weeds.

#### NOTES AND GLEANINGS.

FRUIT EVAPORATING COMPANIES are being organized in different places in the west. There is no doubt but that these institutions will afford favorable opportunities for the investment of capital, and Fruit Growers in the vicinity of them will be benefited by the increased demand that is sure to follow for their products.

IT IS NOT perhaps as well known as it should be that all bones, which can be collected upon every farm or gathered by boys from the surrounding country, can easily and cheaply be dissolved upon the farm and converted into a most valuable fertilizer. A noted Russian experimenter describes his method of dissolving bones as follows: "To 4000 pounds of bone take 4000 pounds of unleached wood ashes, 600 pounds of fresh burned lime, and 4500 pounds of water. First slack the lime to a powder, mix it with ashes, and placing a layer of bones in a suitable receptacle—a pit in the ground, lined with boards or stones—cover them with the mixture; lay down more bones and cover, and repeat this until half the bones are interstratified with the ashes and lime then pour on water and let it stand. From time to time add water to keep the mass moist. As soon as the bones have softened the mass can be shoveled over and used to cover more hard bones just as the lime and ashes were at first."

LONG HORNS, SHORT HORNS OR NO HORNS.—We notice that there is a strong feeling in the New England States in favor of Polled Dairy Cattle, and in view of the lack of mercy which such animals show each other we believe this a movement in the right direction. Col. Mead, the proprietor of "Suffolk Farm," one of the noted dairymen of Vermont, has heretofore kept short-horns, and there are some creditable dairy and beef stock of that breed now in his stables, but believing that the "coming cow" is to be hornless, he has recently imported from Suffolk England the finest herd of Polled Reds in the world. He is so well pleased with them that he will sell all his horned stock and turn his attention entirely to these.

They are said to be of a solid cherry red color, and are as harmless when herding together as a flock of sheep. Never having learned to fight they might find themselves at a disadvantage if turned in with a lot of horned cattle.

At the New York State Experimental Farm last summer, seed corn was planted from the tips, middle and butts of the ears and with results that were unexpected. It has been the old time practice of many farmers, when preparing seed corn for planting, to shell off and discard the seed from each end, supposing that the middle kernels would bring the best returns. The Geneva experiments did not accord with this old-time opinion, and now the Director has issued a circular asking the farmers of the state to join in making an experiment upon so large a scale that the answer given may be unquestionable and settle the matter.

SO THE FARMERS are prosperous; and the prosperity of the farmers insures good business for the merchants. There was a decline in many kinds of business last Spring, and some timid people began to predict another panic, but the most sagacious business man said, "Wait. Let us see what the crops will be like. If they are good, business will brighten up again." The crops are good and business is brightening up, so that no more talk of a panic is heard. It appears, then, that the farmer is the



main stay of the country, after all; but probably few people realize how much of the actual wealth and consequent importance of the country come from him. Not only do the merchants of America depend on him for prosperous business, but they and their employes, the manufacturers and their legions of workingmen, the working forces of the railroads, and the vast army of food-consumers of every kind must be supported by him; and only after they are fed is he at liberty to send his crops abroad.—*Philadelphia Bulletin*.

## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. V.                      WHOLE NO., XIX.  
LA PLUME, LACKAWANNA Co., PA.,      MAY, 1883.

For lo, the Winter is past, the rain is over and gone; the flowers appear on the earth; the time of the singing of birds is come, and the voice of the turtle is heard in our land.—*Bible*.

THE CALL FOR COPIES of our April Number which contained a prize offer to boys for gardening, has been so great that the supply was exhausted and hundreds of applications received since. We regret that we have not room to repeat the particulars of the offer in this number, but it will probably reach its readers too late to enable them to successfully compete this time. If the contest proves as interesting as we anticipated, we shall no doubt repeat it next season early enough to give all a chance to compete.

WE HAVE NO REASON to complain of lack of support in the way of subscriptions to SEED-TIME AND HARVEST, (its sworn average circulation, counting each and every issue since January 1882, having been over 22,000 copies per issue,) yet we realize that its present subscribers might help to

make it much more valuable by soliciting subscriptions from their friends, many of whom no doubt, never yet saw a copy. We will repay liberally all who will exert themselves a little in this direction.

The Spring is here—the delicate-footed May,  
With its slight fingers full of leaves and flowers,  
And with it comes a thirst to be away  
In lovelier scenes to pass these sweeter hours,  
A feeling like the worm's awakening wings,  
Wild for companionship with swifter things.

—N. P. Willis.

WE AGAIN INVITE our friends to contribute items of interest for publication. Why not let the light of your experience shine for the benefit of your fellow passengers in the journey of life? We venture to say there is scarcely a reader who could not contribute some item which would prove of profit or pleasure to our readers. Please let us hear from you.

WE ARE FREQUENTLY asked by our patrons where they can obtain certain articles, many of which are advertised in SEED-TIME AND HARVEST, and quite often people send to us for things advertised by others. Now, we like to accommodate, and nearly always send on the order to the advertisers, but, as a general thing, any other person can get goods of our advertisers just as cheaply and promptly as we can, and we therefore advise sending the money to them and not to us, as when we forward the order we are at the expense of postage and get only thanks in return.

ADVERTISERS who have given SEED-TIME AND HARVEST a fair trial generally admit that there are few mediums published which give so good returns for the amount of money invested as it does. This is due, we suppose, firstly, to the fact that our readers are, as a class, wide awake men and women who have plenty of money to spend, and secondly, because there is such a host of them. To induce a trial we will offer any responsible man or firm who has never used our columns a good discount on a trial "ad" for our next four issues. Please send copy of your advertisement for estimate and we will give special rates which cannot fail to pay you.



IN OUR LAST ISSUE we offered to send out SEEDS to responsible parties who would certify that they were worth over One Hundred Dollars and would pay for them in six months or less. We did this partly as an accommodation to any of our friends who might be "short" of sufficient funds to enable them to purchase as many seeds as they really needed, and partly to work off seeds while they were fresh and good, which we might otherwise carry over. A large number have availed themselves of the offer and we will continue it for 30 days longer. But we wish to say that our intention was to confine this to SEEDS ONLY and do not intend or expect to send potatoes, plants, or other goods on such orders. The plan is an experiment on our part, and its repetition in future will depend entirely upon the promptness with which our friends pay off these promises, or the amount of trouble we are caused in collecting them. We hope we shall not be compelled to enter any names upon a black list on account of trouble in this direction, but any person who will go back on such a promise and make us trouble ought to be placed there. Don't you think so?

*But there's something uncounted, unseen, that comes;*

*An' a heigh ho!*

*If you leave it out you can't prove your sums;*

*An' a heigh ho!*

*And this is the way to say it, or sing:*

*"Oh, Spring is the loveliest thing in Spring!"*

*An' a heigh ho, an' a heigh!*

In that soft season when descending show'rs  
Call forth the greens, and wake the rising flow'rs;  
When opening buds salute the welcome day,  
And each relenting feels the genial ray.

—Pope.

THE SEED POTATO TRADE has been very lively with us this spring and we have filled thousands of orders ranging in size from a single tuber to a car load. The Early Beauty of Hebron has been very extensively planted and our supply is entirely exhausted. We could not nearly fill our orders for Early Sunrise, Rural Blush or Boston Market, and we judge from the interest manifested in them that these will be very popular varieties another year. We can still fill small orders for about all

other varieties offered in our list but shall not hold them much longer than June 1st, so if any are still wanting them, orders should be sent at once. See prices in the April Number. We will now sell our surplus of Belle at \$3.00 per barrel.

**Surplus Stock.** For the balance of this season we will send any seeds on our list at 20 per cent less than catalogue rates for cash. See list on pages 30 and 31. Will mail good fresh Onion seeds at \$1.00 per pound postpaid. There is yet plenty of time to sow for setts for next year's use when Onions are bound to be scarce and high. Fewer have been sown this spring than for years past, and a reaction will certainly take place in prices. Can't you turn a few dollars by seeing thus far into futurity?

**Now for some Squashes.** Five years ago the Hubbard was considered the very best winter squash in cultivation, and about every farmer and gardener in the country grew it. Then came the Marblehead and Butman as improvements upon the grand old Hubbard, which seemed scarcely possible, but thousands were, of course, ready to give them a trial. But it is well known that neither of them has eclipsed the old Hubbard, and of late a reaction has taken place and the Hubbard is now in demand, at least twenty-five pounds of Hubbard seeds being called for this season to one of the others. The Essex Hybrid is very much liked and is largely called for, in fact, it has been hard to supply the demand for seeds of it. It is hard to say what a man can grow which will go farther toward a good living than a wagon load of winter squashes. And they are easily grown *if you only keep the bugs off*. Probably protecting the hills with boxes is the surest remedy, but "eternal vigilance" is the price which most of us have to pay for our squashes. The two excellent little fall squashes "Perfect Gem" and "Coconut" were left out of our list by oversight. We have the seeds at 15 cents per ounce. See cuts on page 12.

When every brake hath found its note, and sunshine smiles in every flower.—Edward Everett.



### New Postal Regulations.

If you will cut this out and stick it in your memorandum book, says the *Chicago Times*, you will find it convenient for reference, and be spared the trouble and expense of writing letters of inquiry to the newspapers. On and after October 1, 1883, letter postage will be two cents for each half ounce or fractional part thereof between all points in the United States. The rate will then be the same on drop letters and all others. No changes have been made in rates on other classes of matter. On and after July 1, 1883, you can obtain at any money order office postal notes in the sums of \$5 and under by paying a fee of three cents. These postal notes will be made payable to bearer without corresponding advices. They will be payable at any money order office within three months of the date of issue. After the lapse of that time the holder can obtain the par value only by applying to the postoffice department at Washington. On and after July 1, 1883, you can obtain a postal money order for as large a sum as \$100. The present limit is \$50. The fees on and after that date for orders will be as follows: Not exceeding \$10, eight cents; from \$10 to \$15, ten cents; from \$15 to \$30, fifteen cents; from \$30 to \$40 twenty cents; from \$40 to \$50, twenty-five cents; from \$50 to \$60, thirty cents; from \$60 to \$70, thirty-five cents; from \$70 to \$80, forty cents; from \$80 to \$100, forty-five cents. The postal notes will, no doubt, be found more convenient in one respect than the fractional paper currency was, since they can be obtained for any number of cents under \$5. There will also be less liability to loss by theft than there was when fractional notes were used for transmission through the mails, especially if the department uses judgment in prescribing the size and form of the notes, and in selecting the paper on which they are to be printed. On the other hand, they will be less convenient in that they can only be obtained at money order offices at a considerable sacrifice of time, especially in large cities. It will be observed that after the 1st of October the cost of sending any sum under

\$5 by postal note will be five cents—two cents postage and three cents fee. The new fees on orders are considerably less than the old; but it will be found, no doubt, that they can be reduced still further and considerably simplified without loss to the department. The postmasters will have a little more to do probably, when the new provisions of law come into operation. It is not likely, however, that many of them will resign in consequence. Congress, it may be added, has taken care to protect postmasters against the consequences of the reduced rate of postage on letters.

### An Expert Swindle.

From the *Chicago Daily Times*.

A new scheme devised by a couple of young sharpers to wheedle the rustics out of their dollars was nipped in the bud yesterday by the police, and its devisers now languish behind the bars. A few days ago, W. M. Johnson & Co., manufacturers of sour-kraut at No. 23 South Water street, received a letter from Isaac F. Tillinghast, a gentleman living at La Plume, Lackawanna Co, Pa., with whom they had business relations, asking them to make inquiries in regard to the "Union Package Delivery Company," of No. 2, West Lake street. Mr. Tillinghast had received from the alleged company a postal-card reading as follows:

UNION PACKAGE DELIVERY, No. 27 WEST LAKE STREET CHICAGO, April 6, 1883.—DEAR SIR: There is at this office at your disposal one package, which will be forwarded to you by mail upon receipt of the required charges—64 cents. Please give this your earliest attention. Respectfully yours,

UNI N PACKAGE DELIVERY.

Said to contain .....valued at \$....

Contracts taken for delivering merchandise, etc., to any part of the world.

Mr. Tillinghast wrote that he had never heard of the Union package delivery, and did not want to be swindled, even for a small sum. W. M. Johnson & Co. sent the gentlemen's communication to Supt. Doyle, and asked him to investigate the matter.

The case was placed in the hands of officers Bruton and Hanley, of the Desplaines street station. They called at No. 27 West Lake street, and in room No. 5, a



small apartment, two callow youths, whose appearance did not seem promising for a firm who were "prepared to take contracts for sending merchandise to all parts of the world," were found. They were questioned pretty sharply about their business, and their answers being unsatisfactory, they were taken to the Desplaines street station, giving the names of W. F. York and F. C. Duncanson, and locked up. They vigorously protested that their business, though not strictly legitimate, could not be classed as swindling, and claimed to have received the sanction of the postoffice department. The scheme operated by the young men was to send out a number of postal-cards similar to the one received by Mr. Tillinghast, and then, if an answer was received, in return for the 64 cents they would send a package containing a small book or other article, valued at about one-half the amount received.

The young men were seen in their cell last night by a reporter for THE TIMES, to whom they admitted that their business was a little wrong, but said it was not a swindling scheme.

"In return for the money we received," said York, "we proposed sending a book which would cost our customer at least a dollar at retail, but which cost us in job lots about 34 cents. We thus gave a fair equivalent and made a little money on our goods. We had been in the business only a few days, and had as yet not sent out any goods, though the police think we had been sending out a quantity. We went to the postoffice department and inquired if our business was a violation of the postal laws and if it would be interfered with by the postoffice authorities. We were told that we could go on, but we would have to send the goods at our own risk. A day or two ago we became fearful that our business was not strictly legitimate, and had begun to return the money we had received to those who had sent it when we were arrested.

The assertion that they had begun to send back any money is regarded by the police as very gauzy, and will be ventilated in court to-day. Both young men are quite intelligent looking. Young Duncan-

son is the son of Dr. Alexander Duncanson, a reputable physician, formerly of Kankakee, Ill., whose office is now at the corner of Madison and Robey streets. The young men were booked on a charge of obtaining money under false pretenses.

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### LETTERS FROM THE PEOPLE.

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#### CABBAGES FOR THE SOUTH.

Shreveport, La., Feb. 15, 1883.

Isaac F. Tillinghast, Esq:

Dear Sir: I believe you are going to make SEED-TIME AND HARVEST interesting South as well as North. Will you please answer the following questions:

What variety or varieties of cabbage will grow and head in the greatest degree of cold? Here if we have good plants and put them out in September, they will generally grow and head all through the winter. Have been using Flat Dutch and Drumhead, but believe some earlier maturing varieties would be more profitable if they will stand as much cold.

Will the American Wonder and Racer Pea stand and grow in as cold weather as the Philadelphia Extra Early? Respectfully,

G. W. STONEB.

ANSWER: Your own observation and experience in the matters you ask about are certainly more valuable than the opinions of one who has never been so far south as your state. From our observations here, we should say that the Flat Dutch and Late Drumhead cabbages were the most hardy varieties grown. We have never observed any great difference in different varieties of peas so far as standing cold is concerned. It is a hard matter to injure any variety with frost, even here.

#### NEW SEEDINGS.

Gordon, O., Mar. 15, 2883.

Mr. I. F. Tillinghast;—Enclosed find an order for  $\frac{1}{2}$  bushel of Wall's Orange Potatoes, he price-price by the peck in the Catalogue you sent me. If you can not fill it let me know immediately. I am much pleased with the enterprise you take in the seed business. I am an old potato grower; I have originated some good new kinds myself. I have a very good strawberry, originated with me, not yet sent out. I have also a very good, very late seedling apple of no one quality; also a very good grape and a yellow raspberry, all of which are not yet sent out. I am growing strawberry seedlings which have not yet fruited. The "Big Bob" strawberry originated in an adjoining coun-



ty, (Miami). I have also done a little at growing semi-tropical fruits in Florida. Could tell you a good deal about Florida and its products, climate &c. Would be pleased to have you send me your Seed-Time and Harvest when convenient.

Yours truly, GEO. TOWNSEND.

We should be pleased and no doubt many of our readers interested, by the publication of an article on Florida and its fruits. If favored with a small sample of any new potato or other vegetable or fruit we will take pleasure in testing it.

#### PRAIRIE FLOWERS.

Herrick, Neb., Oct. 11, 1882.

Mr. Isaac F. Tillinghast:

Dear Sir: I send you two kinds of Prairie Flower Seeds that are deserving of a name for their beauty. The small flat seeds are a kind of evening primrose; light straw color, semi-double and very fragrant. It blooms early in the evening, but is a very profuse bloomer; does not always bloom the first year. I thought it never did, but some of mine did this year. Never cultivated it before myself.

The other is a light purple flower. It grows like a snapdragon on a tall stem. The roots live on from year to year but do not spread.

Respect'y, MARY B. CLARK.

Many thanks for the seeds. We will plant them and see what they will do here. We are always glad to receive seeds for trial of any new or valuable flower or vegetable which our friends kindly send us.

#### WHITE-WASHING HOT-BED GLASS.

Boiceville, N. Y., Feb. 7, 1883.

Mr. Tillinghast;

Dear Sir, Will you be so kind as to inform me if the glass for a hot-bed should be coated over with something or not.

Yours Truly, O. N. PERRY.

Early in the season when the weather is likely to be cool, and the sun obscured by clouds, no coating should be placed upon the glass, but as the season advances, and the sun becomes hotter and the plants larger, a coat of white-wash is sometimes an advantage, as some shade is necessary to keep them from scorching.

#### RAISING PEAS.

Lynn, Pa., Feb. 14, 1883.

Mr. I. F. Tillinghast:

Dear Sir,—I would like to give all your patrons my method of raising peas, but perhaps it is needless. Two trenches three feet apart (they may be made with a big plow) partly filled with well-rotted manure;

then an inch or two of soil top of this; then the seed (be liberal of it;) cover the seed six inches for Champion of England. Allow them to come up, and hoe them before bushing. The Philadelphia I do not cover as deep, and they do not need as high brush. Respectfully,

S. S. THOMAS.

#### POTATO BUGS.

Mr. Tillinghast,—Editor of SEED-TIME AND HARVEST,—Did any of your customers succeed in destroying potato bugs with Pyrethrum? I applied some mixed with water and in a few minutes the slugs began to drop off, but I neglected to go back to see whether they recovered, till after a rain and a week had passed, so others had time to come from other parts of the piece; so I could tell no more about it.

HENRY A. SPRAGUE,  
Charlotte, Maine.

We shall be pleased to hear from any who gave it a trial, successful or otherwise.

#### NEW FEATURES OF THE SEED TRADE.

Novi, Mich., Feb. 7, 1883.

Isaac F. Tillinghast:

Dear Sir.—Seeds received in good order. Enclosed please find another order which will, I think, entitle me to SEED-TIME AND HARVEST for one year. Thanks for the January number. A guide for me to order from. Your American Racer Pea is not described and I do not know what it is, early or late, as I want the very earliest.

There are two new features in the seed trade this season. The first, I noticed in David Landreth & Son's Rural Register and Market Gardener's Price List, as follows. The five and ten-cent papers are stamped with the date of their issue. This season's purchasers are thus assured of the freshest crop. No other house in the trade does this. Let me here say, is it not an all important thing which all seedsmen would do well to try, the labelling of the date of growth on each packet sent out?

Some years ago, for various reasons, I grew annually some seeds in my garden; put them away without labelling. This gave me some trouble. I next labelled them. I had some trouble yet in failures. Some seeds were left over year after year and lost their vitality. I next put the date of the year that the seeds were grown on the labels, which was still better.

The second item, I noticed on a package of Jersey Wakefield Cabbage Seed, from Isaac F. Tillinghast, viz., Good for four years. Oh, what two important items. Will it become the general practice for seed growers to label



their seed packages with the date of the year they were grown, (not the year they are used) also their vitality as good for——years. Various tables are published annually in every seed catalogue, but the most important one is left out, viz., The Vitality of Seeds. I, for one, know the importance of those two items, for the Market Gardener and others. Last season there came to me no less than seventeen different persons to ask about cucumbers, suuashes and melons. Last week, a neighbor informed me, that at the Grainge Meeting, held at Farmington, this county, the Professors from the Agricultural College made this an important point in their speech. I give below a partial list. Would you be kind enough to furnish me the balance in SEED-TIME AND HARVEST?

Good for one year—Onions and Parsnips.

For two years—Egg Plant, Carrot, Peas, Beans, Thyme, Pepper, Rhubarb, Salsify and Sage.

For three years—Asparagus. Parsley, Spinach, Lettuce and Radish.

For four years—Cauliflower, Cabbage, Celery and Turnip.

From five to ten years—Cucumber, Squash, Pumpkin, Melon and Tomato, and all except the cucumber is better after the the third year, as they fruit better and run less to vines.

Please let this call out your opinion of it.

Yours Respectfully, HENRY LOCK.

### *To Beginners in Gardening.*

From several years of experience in garden-  
dening, I find it almost folly to try to raise  
choice vegetables until the ground has become  
rich and the whole structure mellow and live.  
But for a poor man who has a little land near a  
small country town where they are not so exact  
as to quality, I know from my own experience  
he can take quite poor land and manage to  
make money at gardening. Having begun gar-  
dening on perhaps as poor soil as ever was cul-  
tivated, and under the most adverse circumstan-  
ces too, for I was not able to walk a step my-  
self, and my work and marketing was done by  
two boys 7 and 10 years old. By their labor  
and my brain work we have gradually brought  
up our soil until now we can grow a beet, rad-  
ish or cabbage that will please the most fastidi-  
ous eye or palate. I wish to offer a few hints to  
those who are limited in means, and whose land  
is poor, yet who wish to try their hand at gar-  
dening.

It is seldom you find a village with 800 or

1000 inhabitants but that you will find a mar-  
ket for beans, beets, radishes, tomatoes and  
melons, and in those you will find earliness the  
most valued qualities. Take what manure you  
have got and can get, pile it in a heap to rot.  
Keep it moist and well covered with sod or soil  
so that you hold all escaping gasses; do not  
suffer it to get dry. When needed, turn it a  
day or two before using and it will become dry  
enough to become fine. As soon as your ground  
will work tolerably well, break it deep and  
work it mellow; mark off rows with a shovel  
plow three feet apart, and fill in the furrows all  
the manure you can spare. Rake over a little  
soil and drop two beet seeds every four inches,  
and sow radishes between. After the plants  
come up throw ashes over them. If you have  
any hen manure scatter a little of that over also.  
Prepare bean ground in the same way as for  
beets and radishes, and plant them every two  
inches apart in the rows. Have plenty of seed  
and plant your beans early risking the frost; in  
about seven or eight days after your first plant-  
ing, plant more, so if the first are cut down by  
frost you will have some coming on. Prepare  
the ground well for tomatoes and melons, and  
put in the hill and work in the soil all the ma-  
nure you can afford. Remember, unless the  
seed is planted early it is vain to hope for an  
early crop. As earliness is success, you should  
plant the earliest varieties you can get. Seed  
from a more northern climate aids in earliness.  
To aid in selections I will give what I find in  
my experience to be the earliest and best. The  
True Egyptian Beet is unexcelled for earliness.  
It is handsomely shaped, of very dark red color  
and exceedingly sweet, tender, and of delicious  
quality.

Melons: I have found none so safe or so early  
for market as the Ice Cream; green skin; red  
flesh; sweet, and very delicious; white seed.

Gipsy, is a large and vigorous grower, fine  
for market, good quality but many smaller sized  
ones; will rot at blossom end.

Bay View Musk Melon is a most desirable  
melon, green flesh, rich and of exquisite flavor.  
It is not the same as Casaba, as some growers  
claim.

For early market the Early Dark Scarlet Tur-  
nip Radish is certainly in the lead. Short Top  
Long Scarlet should follow for a succession.

Tomato: Perfection is splendid and will bear  
until frost.

THOMAS D. BAIRD.

A Southern bank president says the rats  
ate up the \$30,000 he is accused of stealing.



## Advertisements.

In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.

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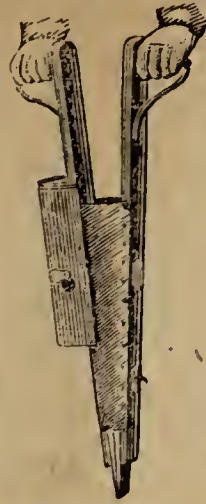
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N. B.—The popular and beautiful weekly publication known as **HOUSE AND HOME**, illustrated newspaper (established 1880), is one of the best and most elegantly illustrated weekly newspapers of the day, full of News, Art, Science, Fashion, Music, Poetry, Charming Stories, Wit and Humor, Useful Knowledge, and Amusement for every American home. In fact, a pictorial history of the world from week to week—sixteen pages beautifully illustrated—same size as Harper's or Leslie's illustrated weeklies.



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**22**

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### Sending Plants by Express, and Their Care on Arrival.

During the next two months there will no doubt be millions of Cabbage, Celery and other plants shipped from the growers to those who wish to set them or sell them, and a few hints in regard to the proper manner of handling and keeping them may save a great many losses. Many people think that the sooner a plant is re-set after being taken from the seed-bed the better. This is an error. It actually benefits a plant to be taken up for twenty-four hours before being re-set. It is impossible to take up or remove a plant from the seed-bed without breaking or destroying many of the fine rootlets, at the ends of which are the minute mouths, by which the plant sucks up its substance from the soil. In this way the elements of plant growth are taken into the system as it were, and the excess of moisture evaporates from the leaves and passes away, much after the manner that an animal derives support from the air which passes through its lungs and food through its stomach. When these mouths or suckers are broken or detached, of course the supply of moisture is cut off, yet if exposed to the sun or wind the evaporation continues to go on from the leaves, hence the plant wilts badly. If the plants can have their roots wet and leaves shaded for twenty-four hours after being taken from the seed-bed new rootlets will form and a re-action takes place with a vigorous determination to live and re-establish themselves. If set then, they will wilt less and start much quicker than if immediately re-set. Plants which are packed for transportation most frequently spoil by heating and turning yellow where tightly packed. The leaves and stems should be kept as dry as possible or they are likely to rot. Nothing will spoil a lot of packed plants quicker than to pour water upon them. If the ground is in readiness for them upon arrival no doubt the best thing to do is to set them at once. But if it is not, and it is necessary to keep them for any length of time, unpack them immediately and dip only the roots of each bunch

in a puddle of loamy soil and water stirred to about the thickness of good cream. Then proceed to "hill them in" as a nurseryman would fruit trees. That is, dig a shallow trench in the garden and open the bunches and set them in so a hundred plants will occupy two or three feet of drill. Pour water along to settle the soil around the roots and leave the tops dry and exposed to the sun. The roots will start and the plants keep in this way for weeks if necessary. They can thus be watered and shaded with very little trouble if necessary, and kept until the weather is suitable for setting in the field.

### AMONG OUR EXCHANGES.

THE LADIES' FLORAL CABINET for May contains some elegant engravings and descriptions of new ornamental plants, among which are the Crinum, the Asparagus Plumosus and the Tree Dahlia. Excellent articles on Flowers and ornamental gardening, with Poems and Stories make up an exceedingly interesting number. \$1.25 per year. Published at 22 Vesey St., N. Y.

THE high standard of excellence set by the late James Vick in the publication of VICK'S MONTHLY MAGAZINE has been fully appreciated by his worthy successors and no falling off has been permitted in any of its departments. The floral department is especially fine, thoroughly practical directions being given for the cultivation of all kinds of flowers and foliage plants each month, with original illustrations of all novelties. Rochester, N. Y. \$1.25 per year.

OUTING. An Illustrated Magazine of Recreation published at Albany, N. Y., commences its second volume with the May number, and is certainly a unique publication filling a place never before occupied by any American Magazine. Articles on Trout Fishing, Velocipeding, Hunting and Boating, with descriptions of the most popular resorts for spending vacation are given in every number. It also contains many excellent illustrations by first class artists. We predict for it a successful future and trust its publishers may be rewarded for their enterprise by a hearty support. \$2.00 per year with SEED-TIME AND HARVEST.

Messrs. D. Lothrop & Co., the great Boston publishing house whose large advertisements of valuable new books are to be found in this issue, are also publishers of THE PANSY and WIDE AWAKE, two of the finest juvenile monthlies in the world. Our young folks watch for their monthly visits with great anxiety and derive a host of pleasure and instruction from their pages. And the interest in them is by no means confined to the juvenile portion of the family. We find them among the most interesting of all our exchanges.

ARTHUR'S HOME MAGAZINE.—Every number of "Arthur" is a treasure. The June Number will contain, among other attractions, a beautiful Frontispiece entitled, "Crowned in Summer," "A Reminiscence of Horace Greeley," by Mrs. C. I. Baker, "A Border Sketch," by Isadore Rogers, "The Money Question," by Celia Sanford, "Walter Scott and his Assistants," "The Chemistry of Bread Making," "The Nature and Use of Prayer," by Rev. Chauncy Giles, The Mother's Department, Boys' and Girls' Treasury, The Home Circle, Young Ladies' Department, Fashion Department, &c., are well sustained. We can truly say of it, the best Magazine for the price in America. T. S. Arthur & Son, Philadelphia. \$2.00 a year.



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How many parents there are in our broad land who allow their children to spend from two to five dollars yearly in the purchase of cheap story books, that do not tend in any respect to make them either better or wiser, yet who would think it almost a useless waste of money to pay \$1.75 a year for the YOUTH'S COMPANION, published weekly by Perry Mason & Co., Boston, Mass., and yet each number of this excellent paper contains as much reading matter as the average ten-cent story book, and is quite as interesting and much more instructive.

EVERY number of HOME CIRCLE shows an improvement on the preceding issue. The May number is a capital one, containing several illustrated articles descriptive of Ancient and Modern Architecture, Natural History, Different Peoples of the World, &c. Among the writers, we notice the names of Dr. L. P. Brockett, Rev. G. M. P. King, Wm. E. Simonds, Wilson Flagg and others. An interesting story by "Pansy" entitled, "An Endless Chain," has been running for some time and increases in interest. The "Point Chautauqua College of Reading" is a department of great interest to Students, conducted by Rev. Gilbert Fredericks, of Centralia, Ill. It also contains an excellent juvenile department. Published at Philadelphia, at \$1.50 per year.

THE May issue of Demorest's Monthly Magazine is exceedingly rich in literary articles, and is decidedly one of the most attractive numbers we have yet had of this instructive and entertaining publication. Among the many praiseworthy articles may be mentioned: "Art in its Infancy," "The Farm of Flowers," "The Bayeux Tapestry," "The Mannish Young Woman," "Record of Women," and "An English Glove Factory." Jennie June gives another of her articles, "How we live in New York," and Mrs. Hungerford furnishes some useful information about "Weddings, Home Art and Home Comfort," "Current Topics," and the various departments are all good. The illustrations are varied and excellent, and include a fine oil picture called "The Trio." There is no magazine better adapted to the household than Demorest's, and its moderate price makes it available to all.

THE JUNE number of THE POPULAR SCIENCE MONTHLY is filled as usual to overflowing which renders it impossible for us to convey to our readers more than a short sketch of its contents. "Medical Quack and Quackeries," "Recent Storms and Sun-spots," "Vivisection in the State of New York," "Quartz, Its varieties and formation," "The Remedies of Nature," "The Cost of Life," "Our Marriage and Divorce Laws" are the titles of some of the more important articles. An excellent portrait of the elder Prof. Silliman, of Yale College, with a sketch of his life and notices of his fruitful scientific works are given. The editors, Prof. E. L. and W. J. Youmans have assumed a great task in keeping the "Monthly" in the front rank of Scientific Magazines but they appear able to do it. It is published by D. Appleton & Co. New York, at fifty cents a number or \$5.00 per year.

THE extraordinary success of GLEANINGS IN BEE-CULTURE still continues, and the JUVENILE GLEANINGS, a nice little off-shoot, has entered upon its second year. Bee-keepers, and especially beginners, will find much of interest in its pages. Its high moral tone will commend it to all who love the pure, the right and the virtuous. A year's subscription and a hive of bees would be an excellent present to a boy and tend to increase his love of home.

THE KANSAS BEE-KEEPER, published monthly by Scovell & Anderson, Columbus, Kansas, is an excellent Magazine and deserves a hearty support. We can heartily recommend it to our western friends.

## Advertisements.

*In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.*

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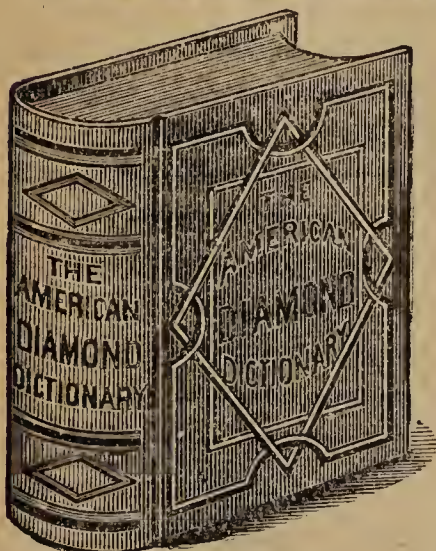
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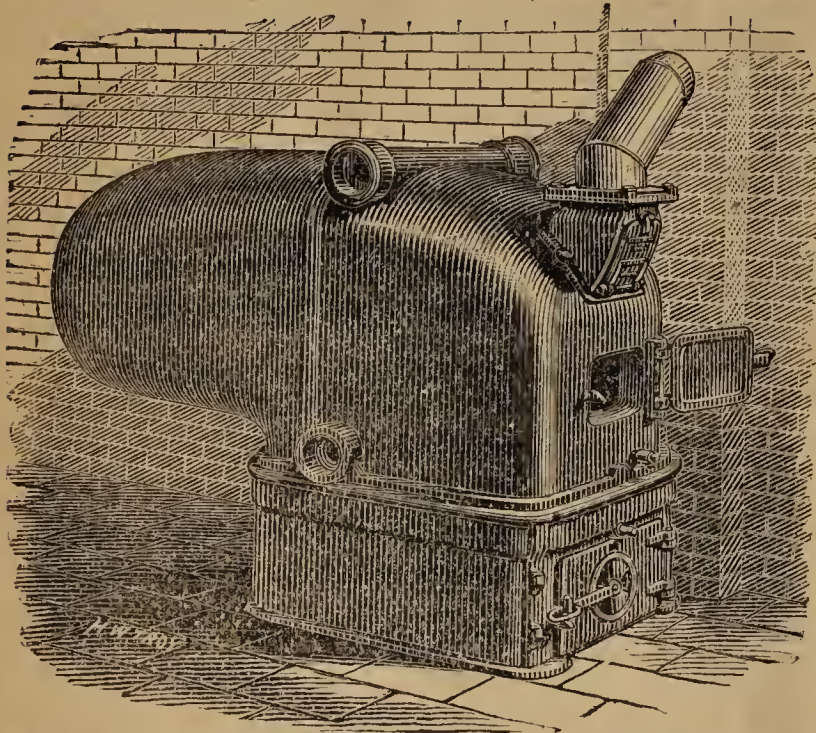
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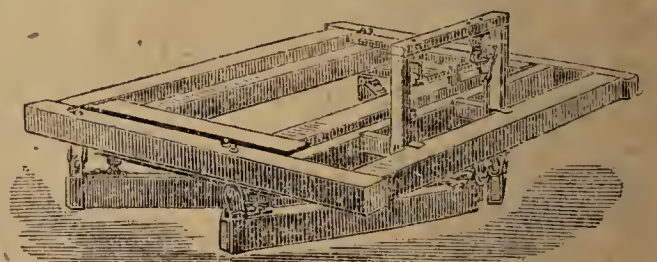
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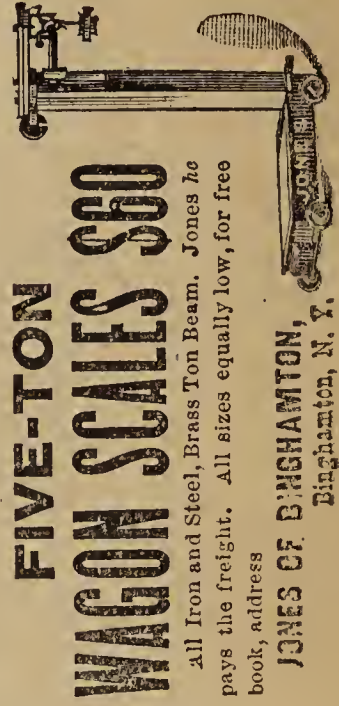
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Nonpareil.....	20	1.25	—
Lenormand's Short Stem....	20	1.25	—
Above Varieties Mixed.....	20	1.25	—

**Cabbage.** **American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

Hartwell Early Marrow.....	15	50	8.00
Very Early Favorite.....	15	50	8.00
Early York.....	05	15	2.00
Berkshire Beauty, New.....	—	—	—
Early Bleichfield.....	10	25	4.00
True Jersey Wakefield.....	10	25	4.00
Henderson's Early Summer..	10	25	4.00
Newark Early Flat Dutch....	10	25	4.00
Large Early Oxheart.....	05	20	3.00
Early Winingstadt.....	05	20	3.00
Fottler's Early Drumhead....	05	25	4.00
Premium Flat Dutch.....	05	25	4.00
Late American Drumhead.....	05	25	4.00
Marblehead Mammoth.....	05	25	4.00
Perfection Drumhead Savoy..	05	25	4.00
Red Drumhead,.....	05	25	4.00
Red Dutch.....	05	25	4.00
Early Dark Red Erfurt.....	10	35	5.00
Above Varieties Mixed.....	10	30	4.50

<b>Carrot.</b>			
Early Short Horn.....	05	10	1.25
Improved Long Orange.....	05	10	1.50
Danvers Orange.....	05	10	1.25
White Belgian.....	05	10	1.00
Above Varieties Mixed.....	05	10	1.00

<b>Celery.</b>			
Golden Hartwell, New.....	15	—	—
La Plume Chestnut, New.....	10	25	3.00
Crawford's Half Dwarf.....	05	25	3.00
Carter's Dwarf Crimson.....	10	25	3.00
New Golden Dwarf.....	10	25	3.00
Dwarf White Solid.....	05	25	3.00
Boston Market.....	10	50	—
Sandringham.....	05	25	3.00
Giant White Solid.....	05	25	3.00
Celeriac, Turnip Rooted.....	05	25	—
Above Varieties Mixed.....	10	30	—

<b>Chicory.</b>			
Large Rooted.....	05	10	1.25

<b>Cress.</b>			
Curled, or Peppergrass.....	05	10	1.25
Water Cress.....	10	60	—

<b>Cucumber.</b>	Pkt.	Oz.	Lb.
Tailby's Hybrid, New.....	05	10	1.50
Early Cluster.....	05	10	1.25
Early Russian.....	05	10	1.25
Peerless Early White Spine..	05	10	1.25
Green Prolific.....	05	10	1.25
Long Green.....	05	10	1.25
Above Varieties Mixed.....	05	10	—

<b>Egg Plant.</b>			
Long Purple.....	10	50	—
Improved N. Y. Purple.....	10	60	—
Very Early Dwarf Purple....	10	50	—
Striped Gaudalupe.....	10	60	—
Long White China.....	10	60	—
Above Varieties Mixed.....	10	60	—



<p><b>Endive.</b></p> <p>Green Curled ..... 05 20 2.00</p> <p><b>Gourds.</b></p> <p>New Nest Egg ..... 15 — —</p> <p><b>Kohl Rabi.</b></p> <p>Large Purple,..... 10 35 —</p> <p>Early White Vienna ..... 10 35 —</p> <p>Above Varieties Mixed..... 10 35 —</p> <p><b>Lettuce.</b></p> <p>Black Seeded-Satisfaction ..... 05 20 2.00</p> <p>Royal Summer Cabbage ..... 05 20 2.00</p> <p>Black Seeded Simpson, New,.. 05 30 4.00</p> <p>Hanson ..... 05 20 2.00</p> <p>Victoria ..... 05 20 2.00</p> <p>Early Curled Simpson ..... 05 20 2.00</p> <p>True Boston Market ..... 05 20 2.00</p> <p>White Seeded Tennisball..... 05 20 2.00</p> <p>Black Seeded Tennisball..... 05 20 2.00</p> <p>Drumhead, or Malta ..... 05 20 2.00</p> <p>Above Varieties Mixed ..... 05 20 2.00</p> <p><b>Leek.</b></p> <p>Large Scotch Flag .. ..... 05 30 4.00</p> <p><b>Musk Melon.</b></p> <p>Nutmeg..... 05 10 1.25</p> <p>Skillman's Netted..... 05 10 1.25</p> <p>Improved Yellow Cantaloupe 05 10 1.25</p> <p>Green Citron..... 05 10 1.25</p> <p>Pine Apple..... 05 10 1.25</p> <p>Jenny Lind..... 05 10 1.25</p> <p>Surprise, New, ..... 05 15 2.00</p> <p>Bay View, New,..... 05 15 2.00</p> <p>Montreal Green Nutmeg, New, 05 20 3.00</p> <p>Netted Gem ... ..... 05 20 3.00</p> <p>Hackensack ..... 05 10 2.00</p> <p>Christiana Orange ..... 05 10 2.00</p> <p>Above Varieties Mixed..... 05 10 1.50</p> <p><b>Water Melon.</b></p> <p>The "Boss," New, ..... 05 20 3.00</p> <p>Japan Sculptured-Seeded ..... 05 20 3.00</p> <p>Cuban Queen, New..... 05 20 3.00</p> <p>Phinney's Early..... 05 10 1.25</p> <p>Striped Gipsev..... 05 10 1.25</p> <p>Ice Cream ..... 05 10 1.25</p> <p>Mountain Sweet ..... 05 10 1.25</p> <p>Ferry's Peerless ..... 05 10 1.25</p> <p>Citron. (for preserving,) ..... 05 10 1.25</p> <p>Above Varieties Mixed..... 05 10 1.25</p> <p><b>Mustard.</b></p> <p>White French..... 05 05 60</p> <p>Black American ..... 05 05 60</p> <p><b>Onion.</b></p> <p>Southport Yellow Globe, New 05 20 2.00</p> <p>Southport Red Globe, fine,.... 05 20 2.00</p> <p>Early Red Globe..... 05 20 2.00</p> <p>Yellow Danvers..... 05 15 1.60</p> <p>Red Wethersfield ..... 05 15 1.60</p> <p>Large Yellow Dutch..... 05 15 1.50</p> <p>White Globe ..... 05 20 2.00</p> <p>White Portugal..... 05 20 2.00</p> <p>New Queen ..... 05 20 2.00</p> <p>White Italian Tripoli..... 05 20 2.00</p> <p>Giant Rocca..... 05 20 2.00</p> <p><b>Parsnip.</b></p> <p>Smooth Hollow Crowned ..... 05 10 .75</p> <p>Early Round..... 05 10 .75</p> <p>New Maltese ..... 05 10 1.00</p> <p><b>Parsley.</b></p> <p>Extra Fine Curled ..... 05 15 2.00</p> <p><b>Pepper.</b></p> <p><b>New Golden Dawn</b> ..... 15</p> <p>Sweet Bell or Bull Nose..... 10 25 4.00</p> <p>Large Sweet Mountain..... 10 25 4.00</p> <p>Red Cayenne ..... 10 25 4.00</p> <p>Spanish Monstrous (New) ..... 10 40</p>	<p><b>Pumpkin.</b></p> <p>Large Cheese..... 05 10 .85</p> <p>Sugar. (Fine for pies,)..... 05 20</p> <p>Connecticut Field ..... 05 05 .45</p> <p><b>Radishes.</b></p> <p>Early Scarlet Turnip ..... 05 10 1.00</p> <p>Early White Turnip ..... 05 10 1.00</p> <p>Long Scarlet Short-Top..... 05 10 1.00</p> <p>Early Scarlet Olive ..... 05 10 1.00</p> <p>French Breakfast..... 05 10 1.00</p> <p>Grey Summer Turnip..... 05 10 1.50</p> <p>Golden Yellow Summer (New) 05 10 1.50</p> <p>Summer Varieties Mixed.... 05 10 1.25</p> <p>China Rose Winter ..... 05 10 1.00</p> <p>Black Spanish Winter ..... 05 10 1.00</p> <p>California Mammoth White.. 05 15 2.00</p> <p>Winter varieties Mixed ..... 05 10 1.50</p> <p><b>Rhubarb.</b></p> <p>Linnaeus ..... 05 10 1.60</p> <p><b>Salsify, or Vegetable Oyster.</b></p> <p>White French ..... 05 15 1.50</p> <p><b>Spinach.</b></p> <p>Round Leaved ..... 05 05 0.50</p> <p>Monstrous Viroflay ..... 05 10 1.00</p> <p><b>Squash.</b></p> <p>Low's Essex Hybrid, New,.... 10 15 2.50</p> <p>Early White Bush ..... 05 10 1.00</p> <p>Summer Crookneck ..... 05 10 1.00</p> <p>Hubbard..... 05 10 1.25</p> <p>Marblehead ..... 05 10 1.25</p> <p>Butman, ..... 05 10 1.25</p> <p>Mammoth ..... 10 30</p> <p><b>Tobacco.</b></p> <p>Connecticut Seed Leaf..... 10 30</p> <p>Spanish Long Leaf..... 10 30</p> <p><b>Tomato.</b></p> <table border="0" style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: right;">Pkt.</th> <th style="text-align: right;">Hf.-Oz.</th> <th style="text-align: right;">Oz.</th> </tr> </thead> <tbody> <tr> <td>Livingston's Favorite, New,</td> <td style="text-align: right;">20</td> <td></td> <td></td> </tr> <tr> <td>President Garfield, New,.....</td> <td style="text-align: right;">10</td> <td></td> <td></td> </tr> <tr> <td>Essex Hybrid, New.....</td> <td style="text-align: right;">10</td> <td style="text-align: right;">.30</td> <td style="text-align: right;">.60</td> </tr> <tr> <td>Ford's Alpha, New,.....</td> <td style="text-align: right;">10</td> <td style="text-align: right;">.30</td> <td style="text-align: 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# CABBAGE PLANTS.

A great specialty of our business has for the past fifteen years been the production and sale of Cabbage Plants, and thousands of market gardeners and planters have learned that they can get stockier, healthier and thriftier plants of us than they can grow themselves and cheaper too. We actually sow them *by the acre* and shall this season have "millions for defense." The seeds are sown in beds in the open ground in drills far enough apart so that they have room to grow short, stocky and with an abundance of fine fibrous roots, very unlike those so frequently seen crowded in boxes or raised beds. Plants from our first sowings are ready for setting on June 1st, and from that date we shall have them ready at all times until August.

**Varieties.**—For earliest use we shall have at the beginning of the season a supply of Early Jersey Wakefield and Henderson's Early Summer, but of course there is but little demand for these after June 1st.

*Early Flat Dutch.* This fine variety is gaining rapidly in public estimation and we shall sow largely of it this season. In trials made in the experimental grounds of the *Rural New Yorker*, and also at the New York State Experimental Station last season, we notice this variety is reported to have produced a greater number of perfect heads in proportion to the number of plants set than any other. The heads are large and solid, somewhat resembling the Late Flat Dutch, but two or three weeks earlier in maturing.

*Large French Ocheart.* This is the earliest variety we should advise setting after June 1st. It produces fine cone-shaped heads which grow close and firm and with but few loose leaves.

*Early Bleichfield Giant.* An early short-stemmed German variety which has become quite popular in some sections. It is good for first early planting, and again for very latest in July after it is too late to risk the standard late varieties.

*Early Winningstadt.* This is an old and popular variety, which produces very hard pointed heads. Like the early varieties above, it may be set 3 by 1½ feet when nearly 10,000 plants may be set on an acre. It is very sure to head, even on poor and sandy soil, and is not injured by the worms so much as the looser heading ones.

*Fottler's Improved Brunswick.* This variety which is by some called Fottler's Early Drumhead, is in season about half way between the Winningstadt and Late Flat Dutch. It produces a large flat white head on a very short stump, and for all purposes is becoming one of the most popular varieties. The demand for it is second only to Late Flat Dutch, and surpasses it in some sections.

*Late Flat Dutch.* This is perhaps better known and more widely cultivated than any other variety. Different strains are known by various names as "Excelsior Flat Dutch," "Premium Flat Dutch," &c., but if seeds are carefully grown from the best selected heads there is but little difference in them. For winter use the plants are set in this latitude from June 20th to July 20th, though we would recommend setting some earlier variety after July 4th.

*Late Am. Drumhead.* This somewhat resembles the Flat Dutch in appearance, is rather lighter in color and preferred by some.

*Marblehead Mammoth.* This is the largest cabbage grown. Very rich land, good cultivation and a long season must be given it or it may fail to fully develop.

*Drumhead Savoy* is the best of its class. The savoy is the tenderest and best cabbages in cultivation, but the worms are more likely to injure them than any others.

*Red Dutch* and *Red Drumhead* are largely used for pickling raw, and sell at a high price on account of their high color.

*Mixed Varieties.* We shall grow plants from seeds of all of the above varieties mixed for family use at same price as for separate kinds.

**Prices.**—One hundred plants by mail post paid, 40 cents. Four hundred plants packed in a light basket, by express \$1.00, 1000 plants by express, \$2.00, 5000 or over by express at \$1.50 per 1000. These prices include free boxing and delivery to express office here.

## Other Plants.

We shall also be able to supply in their respective seasons, a limited quantity of choice plants of Livingston's Perfection Tomatoes at \$2.50 per 100, and Golden Dwarf Celery at \$3.00 per 1000 by express. We selected these as in our opinion the very best varieties known for general use.

ISAAC F. TILLINGHAST,  
La Plume, Lack'a Co., Pa.



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We actually give away and send by mail, FREE of all cost to you, one of our **FAMILY NEEDLE PACKAGES**, containing 120 of the very best Silver Steel Spring Needles, if you will get two of your friends to order one package each, at 25 cents.

**EACH PACKAGE OF NEEDLES** contains a full assortment, suited to every possible need of family sewing, as follows:

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| 1 Paper Sharps, No. 7.         | Wool Darners.        |
| 1 Paper Sharps, No. 8.         | Yarn Darners.        |
| 1 Paper Sharps, assorted sizes | Embroidery Needles.  |
| Tape Needles.                  | Motto Needles.       |
| Long Darners.                  | Carpet Needles.      |
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The Waterbury Watch is a stem winder. The case is NICKEL-SILVER and will always remain as bright as a new silver dollar. The Watch has a heavy beveled edge, crystal face. The works of the Watch are made with the finest automatic machinery. Every Watch is perfect before leaving the factory. So well known have these Watches become, thousands are buying them in preference to higher priced Watches—**Over 100,000 have been made and Sold** the past 12 months. The company are now making nine hundred Watches every day or 3 every 2 minutes. You would imagine the whole country supplied by this time. By no means. This is the merchant's Watch, the farmer's Watch, the miner's Watch, the laborer's Watch, the boy's Watch, the school-girl's Watch—in fact, Everybody's Watch.

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**A FEW HIGH TESTIMONIALS.**—Thousands more could be Given.

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Allow me to take this opportunity of expressing my admiration for the excellence of this simple and inexpensive watch. It keeps better time than a silver watch in our house which cost, at a reliable dealers', seven times as much. Each of my boys carries one of these watches and with great satisfaction.

Yours very truly,

WILLIAM B. DWIGHT.

Professor of Natural History, Vassar College.

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J. J. HODGES, Waltham, Mass.

BROOKLYN, N. Y., October 10, 1881.

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*Contains the Reading Course of the Chautauqua Young Folks' Reading Union.*

A large, live, illustrated monthly. It gives the finest and freshest serials, short stories and poems now prepared or preparing for young people; also entertaining articles by travellers, explorers and specialists in natural science; bright papers about housework and cooking and home decoration; chatty papers upon the national affairs of all countries; articles on bodily health and strength; delightful lessons in home carpentry, hunting, fishing, camp life—in short, all topics and pursuits which concern young folks, all their hopes, dreams, sports, plans and pleasures are taken up in WIDE AWAKE by trained, discerning, sympathetic and lively writers.

—:O:—

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1883.



Seed-Time and Harvest,

JUNE.



An Illustrated Monthly  
MAGAZINE,  
Devoted to Rural Affairs.

PUBLISHED BY  
Isaac F. Tillinghast, La Plume, Pa.

SUBSCRIPTION, FIFTY CENTS A YEAR.



# A NEW PREMIUM!

"In a Nutshell,"

The latest and best work of  
DR. DIO LEWIS.

For two new subscribers to SEED-TIME AND HARVEST and \$1.00 we will send by mail a copy of this elegant new book which is retailed by the publishers at \$1.00 alone. Any present subscriber sending \$1.00 may order one copy of this popular book and two yearly subscriptions to SEED-TIME AND HARVEST to be sent to any address desired.

## -WHAT IS "IN A NUTSHELL?"

The book has just been written in compliance with the urgent solicitations of several prominent educators having a large number of youths entrusted to their care. It is an epitome of the wisdom and the observations of a whole lifetime concerning the numerous topics which most interest all who would like to stand high in the sphere in which they live. While many of the subjects treated are commonplace, such as Climate, Ventilation, Sleep, Food, Mastication, Digestion, Exercise, Cold Baths, Building a Brain, Longevity, Quintessence of the Blood, etc., etc., there is not a paragraph in the book which is one bit stupid or uninteresting. Several copiously illustrated chapters upon "Curious Fashions" constitute an invaluable feature of the work. Many of the distortions of the savage, as well as of the civilizee, are fully exposed; and the whole subject is treated in a new light. The hideousness of some of our prevailing fashions are so graphically portrayed that every sensible reader must henceforth look with pity, rather than pride, upon their crippled monstrosities. The book fervently appeals to our youth for reform; and it is believed that parents will eagerly seize upon this opportunity to improve their children. It contains interesting and vital facts, the knowledge of which is worth a thousand times the price of the book.

## -WHAT OUR MOST DISTINGUISHED EDUCATORS SAY ABOUT "IN A NUTSHELL."

Inasmuch as the work had been written at the suggestion of several prominent educators, the publishers, before issuing it in the regular bound form, mailed "Advance Sheets" to heads of our most prominent institutions of learning for the purpose of ascertaining whether it could be improved by their suggestions and criticisms. Hundreds of college presidents, and others, have responded in long letters of their heartiest praise. These letters may be fairly epitomized by the following phrases:

- "Very valuable."—*President Porter, Yale College.*
- "Most admirable."—*President Cattell, Lafayette College.*
- "Clear, common sense."—*President Patton, Howard University.*
- "Cannot fail to be useful."—*President Fairchild, Oberlin College.*
- "The points are in just the form to arrest attention and do good."—*Pres. Herrick, Pacific University.*
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- "What can they be furnished for by the hundred?"—*Prin. Rusk, School of Elocution.*
- "It is packed with good hits in plain, attractive form."—*Pres. Payne, Wesleyan University.*
- "As was to be expected from such a source, thy excellent work is crowded with most valuable practical suggestions."—*Pres. Magill, Sicarthurmore College.*
- "Why do you address it especially to college students? It seems equally applicable to all intelligent people."—*Prof. Hitchcock, Amherst College.*
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- "It would be a noble colporteur work to go from college to college distributing this little book to students."—*Prin. Warner, Business College, Akron.*
- "The more I read it the more I am convinced that it ought to be circulated by the hundred thousand."—*Pres. Hooper, Rust University.*
- "The book will be invaluable not only to students, but to everybody who shall read it. I think I shall put it in the hands of our teachers for daily use in their classes."—*Supt. Hatzler, (Newark, O.).*
- "It is fitted to seize the attention of students and guard them against abuses. Dr. Lewis has done a real service to the colleges of the country by preparing it, and by making it so short and terse."—*Pres. Magoun, Iowa College.*
- "This work alone would be a worthy monument of a useful life."—*Pres. Mayhey, Detroit.*
- "Its style beautifully illustrates the power of rhetoric, making the book a useful model for classes in English literature."—*Pres. Murfee, Howard College, Ala.*
- "I have read thousands of pages of medical works in search of the very information here given 'In a Nutshell' without being benefited as I have been by this work. It is a gem."—*Rev. Livingston Smith.*
- "No one can fail to understand this little book. It should be in the hands of all schools and families that the young may learn to take care of that beautiful temple, the human body."—*Supt. Bond, Connecticut Industrial School for Girls.*
- "At what rate could you furnish one hundred copies for distribution?"—*Prof. Weidner, Augustana Theological Seminary.*
- "'In a Nutshell' is the best thing of the kind that ever came to my notice. The style is unique, fascinating and vigorous, and the matter deeply interesting and important. It should be in the hands of every young person in Christendom. Thus disseminated, carefully read and faithfully practiced, the benefits that would accrue to the race are incalculable."—*Horace E. Smith, Dean, Albany Law School.*
- "If the habits of our children were formed upon his counsels, health and longevity would largely take the place of physical weakness and premature death. Having observed these rules, I can testify to their benign efficiency. I am just entering my seventy-eighth year with a sense of vigor rare with me forty years ago."—*Pres. Thompson, Theological Institute, Hartford, Ct.*
- "Warnings are given with great caution, and without exciting those propensities which it aims to control."—*Supt. Drury.*
- "One hardly knows which to admire most, the perfect English or the striking presentation of the subject by this the most eminent sanitarian in the United States."—*Prof. Young, Hartford, Ct.*
- "I wish it were possible to put a copy of this little volume into the hands of every student—boy and girl—in our land. I do not see how the book could be improved."—*Supt. Ellis, Rochester, N. Y.*
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- "This little book confirms my previous high estimate of the author."—*Pres. Quimby, New Hampshire Female College.*
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Address, Seed-Time and Harvest,  
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

— FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT. —

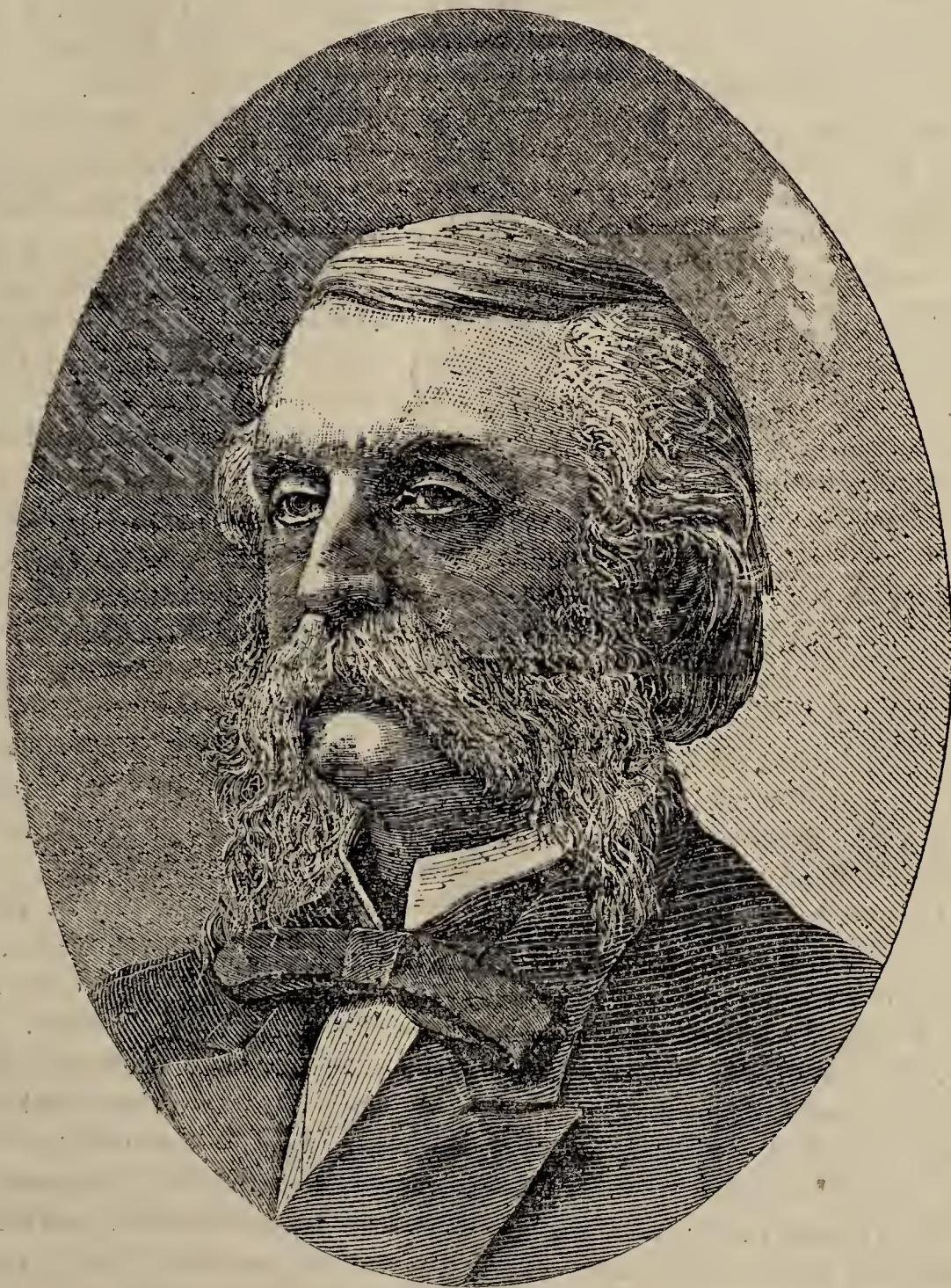
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VOL. 4.

JUNE, 1883.

NO. 6.

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J. R. DODGE, M. A.,

STATISTICIAN OF THE DEPARTMENT OF AGRICULTURE.



## JUNE.

BY W. B. DERRICK.

THE gayest month of all the year—  
Bright, rosy June—is here;  
Sweet flowers in garlands seek her brow,  
And fragrance fills the air.

THE birds are warbling their sweet songs,  
And, singing, seem to say  
That Nature is enjoying now  
A happy gala-day.

THE weather has been warm indeed,  
And quite dry for awhile,  
But we've just had a pleasant shower,  
Enough to make one smile.

THE grass is much refreshed, and lo!  
The green corn in the field  
Is growing now so very fast  
The pigs begin to squeal!

FOR well they know, or ought to know,  
That man who feeds them well  
Will kill them when they're fat and sleek,  
To "cure" them, or to sell.

THE prospect now is very good  
For crops of every kind  
Throughout this beauteous prairie land—  
No better can you find.

THEN let us not desponding say  
This is a "world of woe,"  
But rather like the lark be gay,  
As through this life we go.

Baileyville, Ill.

## CHOOSING A BUSINESS.

The Carpenter's Trade.

A great change has come over the carpenter's business during the last fifty years. Formerly carpenters made almost everything of which the material was common wood, from a clothes-peg to a kitchen-table, from a cow-shed to a church; and whatever they made they also mended.

I can myself remember taking my sled, *Antelope*, to a village carpenter for repairs, and discovered him in his shop making a coffin. It was something of a shock, and I was quite abashed at the idea of interrupting him for so trifling a job. At present coffins, like much other wooden merchandise, are not made; they are turned out by machinery.

In the same way doors of all kinds and sizes are manufactured, from cellar doors of pine to parlor doors of rosewood and mahogany; sash also, blinds, stairs, mouldings and many other things. There are

large villages which are chiefly supported by some special manufacture of wood.

There is one in Maine where they make boys' sleds in incredible numbers, and of excellent quality. A boy now gets a better sled for a dollar than could be had forty years ago for three dollars,

A carpenter told me, a few days ago, that he occasionally buys the doors of a house for less money than he could buy the rough boards of which they are made. Well-made doors, too, and thoroughly seasoned! I have myself, at Winchendon, Mass., a wonderful town for wooden manufacturers, seen clothes-pegs made at a cost of thirteen pegs for one cent, and a pretty good pail for eleven cents.

At present, then, the business of a carpenter is to combine into some desired form or object a number of articles which he buys ready made to his hand. In a new sense of the word, he is a "joiner."

Nevertheless, the foundation of success in carpentry is skill in the use of the old-fashioned tools. A builder must be *able* to make a door or sash, and make it well, even if he never has to make one. Boys may rely upon it that with all the help carpenters get from machinery, it requires more skill and judgment to be a good carpenter than it did when he had to do everything with his own hands.

If he only has to stand and direct the operation of a machine, he cannot be himself a machine, and the constant observation of a complicated piece of mechanism tends to elevate and educate him.

I saw the other day a machine which planed both sides of a board, grooved one edge and *matched* the other, all in one operation, in twenty seconds. By a little extra pressure, two men could pass through that machine two thousand boards in ten hours. In other words, two men and the machine were doing the work of four hundred skilled mechanics, and they appeared to be merely pushing a board along and pulling it out at the other side, without care or thought.

If you watch them do this for half an hour, you will discover that they have charge of an exquisite and sensitive piece of machinery, which has to be continually



watched and frequently re-adjusted. They must be men of judgment and intelligence. "Snug, the joiner," of Shakespeare's comedy, with his comic and gross stupidity, could not work with such a machine ten minutes without bringing himself or it to disaster.

Indeed, boys, the reign of stupidity in every sphere of human activity is drawing to a close, and the lad who means to be anything or do anything effective in life must prepare to use his head as well as his hands. He must live and work up to the noble machinery which he will be expected to handle and direct.

I asked an excellent carpenter, a few days ago, what was the chief quality a boy must possess in order to become a good workman. He answered without an instant's hesitation,—

"Aptitude."

"But," said I, "how can you or the boy himself tell whether he has aptitude or not?"

"Well," said he, after duly scratching his wig, "one of the first things a boy wants to do, who has in him the making of a good carpenter, is to hammer, whittle, saw and chop. He likes to watch men who are at work with tools, and he has a good deal of curiosity about the tools themselves. By the time he is twelve years of age, unless all his native sense and ingenuity have been schooled out of him, he will make a very good dog-house, bird-cage and rabbit-trap; put up a very respectable shelf for his mother in the store-room, and knock together a pretty good shed or summer-house for his sisters in the garden. He has a sort of *relish* for work and tools."

Such is the boy for a carpenter. The advantages of carpentry are so obvious, and some slight degree of skill in it is so easily acquired, that it continually attracts the wrong boys as well as the right ones. In these days of sharp competition, the man thrives best who can do things which few can do, or can do common things in a superior way.

If, therefore, you do not perceive in yourself any signs of "aptitude" for the carpenter's trade; if you have no "relish" for good work and ingenious tools; if you

have not something of the mechanic's peculiar patience, or power of keeping on without fret or worry, it is better to avoid the bench and try something which does not require these qualities.

Let us suppose, however, that after proper consideration, you have made up your mind to be a carpenter. How are you to get into the trade?

A boy now, in a country place, on coming out of school at sixteen years of age, gets into carpentering in a very simple way. He stops at a carpenter's shop and says perhaps to the master,—

"I have worked with carpenter's tools a little. My cousin is a carpenter, and I have been round his shop a good deal. Can you give me a job?"

If it is a busy time, and the master wants hands, he will try him for a day; "feel of him," as a carpenter expressed it, "to find out what he is made of." He will set the lad to helping a man make a picket-fence, one operation of which is digging holes for posts. Often, the first hole the boy digs decides his fate. If he has "gumption," the hole will have two qualities that win respect.

First, it will be straight; secondly, the minimum of earth will be displaced in digging it. An unhandy boy will throw out four times the amount of dirt necessary; he will scatter that dirt all around; and, after all, the post may not stand upright in the hole.

The boy that digs his first hole in that way is very likely to be told at the close of the day, that he is not wanted the next. He may be set to nailing on pickets, a very simple matter; only they must be put on straight, just so far apart, and just so high. A careful boy after nailing on six pickets under the eye of an experienced man, will make no more mistakes.

He will soon learn to do easy work with certainty and rapidity. His merits will at once attract attention, because steadiness and patience are among the rarest qualities shown by boys of sixteen or seventeen; and what an employer most wants is men who can be trusted to carry on a piece of work without superintendence.

I heard a carpenter say recently,—



## SEED-TIME AND HARVEST.

“If a young fellow asks me for a job, I look him over first of all, and if I like his looks, I mark two or three boards, give him a saw, and tell him to saw them off. If he saws them straight I begin to think there’s something in him, and so I do even if I only see that he tries hard to saw straight, though he may not hit it. Everything in our trade is done by trying. When I see a boy that can *try*, I feel like giving him a chance.”

If a young man proves capable of doing the easy work of a carpenter, such as nailing the rough boards on the side of a house, he can earn at once one dollar and twenty-five cents a day, which he can increase to one dollar and fifty cents by the time he has been at work six months. I am speaking now of average country places, not of large cities like New York and Boston.

In the course of two or three years, a wide-awake young man, handy with tools, and always trying his best, can earn the highest wages ordinarily paid to a journeyman carpenter, two dollars and fifty cents a day. When he is competent to be a foreman, and take entire charge of an important piece of work requiring several hands, he may receive from three to four dollars a day, though the latter rate is not common except in cities.

You will often hear carpenters say that the old system of apprenticeships produced better workmen than the one which I have just briefly described. Facts do not bear out their assertion. The carpenters sent over by the British Government to examine and describe the carpentry exhibited at the Paris Exposition of 1867, reported that the French carpenters, who serve long apprenticeships, are among the worst in Europe, and the American carpentry ranks with the very best in the world. They mentioned with particular praise the construction of a model cottage sent over from America, and the wooden work on the locomotive engines exhibited by Americans.

I have often myself on a long journey inspected with lively admiration the beautiful work of a sleeping-car, and the wise construction of the light wooden bridges. We may be very sure that the men who

plan such work spent their precious fifteenth and sixteenth years at school, not in a shop, bullied by their elders and wasting their time in servile employments.

What does carpentry lead to? This is a very interesting question to ambitious youth, who naturally and properly look forward to a fair advancement in life, and wish to spend the evening of their days in peace and dignity. In country towns the most natural issue of carpentry is building and architecture. I knew myself a boy who was deliberately placed in a carpenter’s shop by his parents as a step towards the profession of architecture, and after working three or four years at plain carpentry (with lessons in drawing) he established himself as an architect in a southwestern city. He there formed a partnership with a builder, and they soon had their hands full of business.

Many carpenters have invented new tools, new methods, new devices, and thus made their way to a large business. Others invest their savings (eking them out with some credit) in a set of machinery for making blinds, sash, doors, sleds, stair-rails, or mouldings, and send the product of the same all over the country.

In New York, Boston and Philadelphia, there are men who began life at the workman’s bench, and now have shops in which all such articles are manufactured on the greatest scale and with wonderful economy both of material and power. There is such a shop in Boston, in which one hundred men, aided by a steam-engine of sixty-horse power, manufacture as much carpenter-work as five thousand men could accomplish by the labor of their hands alone. It is a museum of wonders. On walking over it I was reminded of a remark made by John Quincy Adams upon returning from a manufactory in Russia.

“I ought,” said he, “to visit a manufactory once a week in order to learn my own ignorance.”

It really takes your breath away to see the rapidity and certainty with which such operations as sawing, mortising, dove-tailing, grooving and polishing are done by the machines in this establishment, which I suppose Carlyle would call an explosion of all the carpentries.



If a carpenter in Salem or Concord has a contract to build a house, he sends to a shop like this for all his doors, sashes, blinds, rails, kitchen and bath-room fittings, which come to him, nicely packed, as freight, all thoroughly seasoned, both by natural and artificial process.

There are not many men in the world who can create, or even conduct, an establishment like this, because it requires a combination of faculties and talents such as are seldom found in the same individual.

But in many a quiet country place there are carpenters who take pleasure and pride in their work; who have built for themselves nice little houses, filled them with beautifully-made furniture, and established a limited but sufficient business. These are among the most fortunate of mechanics and men. They do not reckon their income in thousands, but their wants are few and moderate; they take a holiday when they need one. They bring up their children to be good citizens, and they have an inexhaustible satisfaction in doing their work in the best manner.—*James Parton, in Youth's Companion.*

### J. R. DODGE, M. A.,

STATISTICIAN OF THE DEPARTMENT OF AGRICULTURE.

The excellent portrait we give in this issue is of a man who has become well-known to most of the farmers of our land through his important labors in the Department of Agriculture. As chief statistician of that Bureau he has gained a reputation for accurate knowledge of the area and value of the growing crops unequalled by any other person in the United States. For upwards of twenty years he has been at the head of the Bureau of Agricultural Statistics, and during that time has written most of the reports, and for fifteen years revised and edited all of its publications.

“As a statistician, he has evidently realized the absolute necessity for accurate interpretation of returns in a country continental in extent, of knowing intimately the soil, climate, crop specialties, labor, conditions, and peculiarities in rural economy of

every locality from which reports can come. With an intimate knowledge of the local condition of agriculture, the regular reports of two thousand counties may have an interpretation that will not misrepresent and stultify their meaning. With remarkable opportunities for such a study and a quick perception of salient points of observation he has personally examined prevalent methods in all departments of rural husbandry in nearly every State and Territory of the United States.

“In preparation for this work after a youth in New England, (he is a native of Southern New Hampshire,) spent in obtaining an education, academical and technical, including the art of printing, he went South, remaining five years in Mississippi, taking charge of an academy and incidentally occupied in journalism, in the meantime studying closely the agricultural system of which cotton is the chief corner-stone. Returning, five years were spent in Nashua, New Hampshire, and seven in Ohio, in the midst of the agriculture of the great Central Basin, editing an agricultural paper, the *American Ruralist*, an eight-page journal, published at Springfield, Ohio, and circulating East and South, as well as West, at the commencement of the civil war. He was also editor of the *Daily Telegram*, which, in 1861, was merged into the *Springfield Republican*, a paper that still occupies an influential position in Ohio journalism.

“In the long session of 1861-2, Mr. Dodge was Senate reporter for the *Republican*, and also for the old *National Intelligencer* while Colonel Seaton was still its editor. For four years subsequently he was connected with the New York Associated Press and also with the Department of Agriculture as editor, until acceptance of the position of statistician, with its burden of responsibilities, precluded all other literary or journalistic work.”

We are under obligations to Mr. Lee Crandell, manager of the enterprising *National Farmer*, of Washington, D. C., who kindly allowed us the use of the engraving, and also to that journal for the above extracts from the brief sketch of Mr. Dodge, which recently appeared in connection with his likeness.



### Punctuality in the Household.

Punctuality is a virtue which the housewife must cultivate, that she may set a good example to her young servants. To be up be-times, to dress neatly for breakfast, not going about the house slipshod, with hair untidy, and muffled up in a dingy dressing-gown; to confer with the cook about dinner and take a look round the larder at the regular hour; to be in readiness for all the meals, is the role of the woman who aspires to take her place among wise and notable matrons. If a mistress is always down late for breakfast, the servants will fall into the habit of being late also. The cook will say, "If I cook the eggs and bacon, they will only get cold;" the housemaid will put off laying the cloth until the last minute, while she hurries through the rest of the work that is behind hand on account of her late rising. So the master comes down to a lonesome room, with the cloth half laid, and waits patiently or not, according to his nature, for the eggs to be boiled and the bacon to be fried, while the spoons and forks are thrown hurriedly all askew on the table. Then he swallows half a breakfast, reading his newspaper, and rushes off to catch his train, may be finding himself just too late, to his great annoyance, and in so flurried a state that heart, digestion, or temper invariably suffers. When he comes home at night, the same disorder reigns—mistress is out; cook, taking advantage of her absence, and knowing well that dinner need not be up to time, has scarcely begun to prepare it; housemaid possibly putting the last touches to her toilet; the fire low, the gas unlighted, what wonder that he comes to regard his office as the pleasanter place, and that his books there engross his mind, to the exclusion of all home thoughts? Late, irregular meals are often the cause of indigestion, which is synonymous with bad temper; and the wife who does not manage that her husband has his breakfast and dinner on time only deserves her fate if she sits down opposite to a face lowering with ill-humor rather than radiant with contentment. Let her be in time

herself and her servants will soon learn that they dare not be behind. The omelet will be hot on the breakfast table, the cloth neatly laid. At dinner time the hearth will be swept up, the room cheerfully bright, while the meat will be sent up to table not half-cooked, with potatoes like bullets as an accompaniment, but in an eatable state, sweet and juicy, and the entremets, up to the moment, will be light, wholesome and tasty. Unpunctuality is waste of time, and waste of time is waste of money.—*The American Cultivator.*

### REMINDING THE HEN.

"It's well I ran into the garden,"  
Said Eddie, his face all aglow;  
"For what do you think, mamma, happened?  
You never will guess it, I know.

"The little brown hen was there clucking;  
'Cut-cut!' she'd say, quick as a wink,  
Then 'cut-cut' again, only slower;  
And then she would stop short and think.

"And then she would say it all over,  
She did look so mad and so vexed;  
For mamma, do you know, she'd forgotten  
The word she ought to cluck next.

"So I said, 'Ca-daw-cut,' 'Ca-daw-cut,'  
As loud and as strong as I could;  
And she looked round at me very thankful,  
I tell you it made her feel good.

"Then she flapped, and said 'Cut-cut-ca-daw-cut;  
She remembered just how it went then.  
But it's well I ran into the garden—  
She might never have clucked right again!"

—*Besste Chaudler in St. Nicholas.*

### Graduating Costumes.

The usual discussion about graduation costumes has begun, and this year the plea is advanced that as a white frock is a necessity to a young woman it is as well that she should have it when she leaves school, and base is the slave who pays for it, if he make any objection to so doing. This is very pretty in sound, but in truth there are a great many girls whose parents can afford to maintain them while the city educates them, who will have no more use for a white frock during the two or three years of their lives following graduation than they will have for a suit of sables, and for whom one might be demanded with as much propriety as the other.



There are a great many lives, very pleasant lives to lead and not altogether useless to the world, in which a white frock like those worn at graduation exercises would be absolutely useless, and the custom which compels a girl to have such a costume is altogether to be condemned, but who is going to help the poor things? Not their teachers, unless they wish to be overwhelmed by an outpouring of girlish logic and deafened with cries of "mean old thing!" Not the school committee, for the members of that body have tried to deal with the matter and have found themselves powerless.

The only persons who can relieve girls of straightened means from the necessity of useless expenditure are those wealthy women who have daughters about to graduate. Let them lay down the rule that their children shall receive their diplomas arrayed either in their ordinary school dress or in plain costumes suitable for every-day wear, and the way becomes easy for the poor girl who can clothe herself according to her means without seeing the difference between her appearance and that of her more favored schoolmates any greater than it usually is. If she have not sufficient strength of mind to bear that difference, it is of little consequence either to the city or to her parents whether she is graduated or not, but it is shameful to compel her to be extravagant or to seem singular.—*The American Cultivator.*

### Hints to Travellers.

ALWAYS keep your head and arms inside the car window.

Remember that it is not necessary to be intrusive in order to be polite.

Take your time in getting on or off the cars; nothing is gained by haste.

Avoid being boisterous, and do not try to make yourself conspicuous.

Never disclose your business to the stranger in whose company you may happen to be.

Bear in mind that the comfort of others should be taken into consideration when you travel.

Your open window may be a source of

great annoyance and discomfort to your neighbors.

Do not litter the seat you occupy with boxes and bundles, to exclude other passengers from sharing with you the accommodation it affords.

Respectfully decline any and all invitations, extended by strangers with whom you are brought in contact, to indulge in social games of cards.

Do not ask the conductor foolish questions about the route; remember that he is not familiar with the running time of all the roads in the United States.

### AFTER A WHILE.

THERE is a strange, sweet solace in the thought

That all the woes we suffer here below  
May, as a dark and hideous garment wrought  
For us to wear, whether we will or no,  
Be cast aside, with a relieving smile,  
After a little while,

No mortal roaming but hath certain end;  
Though far unto the ocean-spaces gray  
We sail and sail, without a chart for friend,  
Above the sky-line, faint and far away,  
There looms at last the one enchanted isle  
After a little while.

Oh, when our cares come thronging thick and fast,  
With more of anguish than the heart can bear,  
Though friends desert, and, as the heedless blast,  
Even love pass by us with a stony stare,  
Let us withdraw into some ruined pile,  
Or lonely forest aisle.

And contemplate the never-ceasing change  
Whereby the processes of God are wrought,  
And from our petty lives our souls estrange,  
Till, bathed in currents of exalted thought,  
We feel the rest that must our cares beguile,  
After a little while.

—Nathan D. Urner.

### A Tested Bug Remedy.

BY M. B. DUMBELL,

Get a large dredging box one that will hold about a pint of powder, procure one or two ounces of finely ground red pepper, mix with a little wheat flour, about a teaspoonful of flour to an ounce of pepper, then just as soon as the cucumber plants make their appearance dust them well with the mixture, giving the plants a look every day to see that the pepper is not blown away; going over the plants again immediately after a rain, and so forth, until the plants are out of danger.



Many years ago when I lived in the city of Rock Island, a friend of mine had a very nice garden. The first year he planted and replanted cucumber seed, and just as soon as the plants made their appearance the bugs would destroy them; he tried lime, soot and two or three other things, but all to no purpose, finally, he hit on the remedy I now send to you, and that drove the little pests away and kept them away, and I know he had as fine a lot of cucumber vines as any I have ever seen.

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### MULCHING.

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The advantages of mulching during the growing season are so manifold that we seem to be neglectful of our duty if we do not from time to time publish a word in its favor. Almost all plants are greatly benefited by it and very many specially so. The quince is a fruit which needs or rather likes a moist soil, and where the soil is not naturally of that character, the want may be supplied by mulching. We have seen quinces successfully grown on a hard gravelly, leachy soil year after year, because every spring a mulch of coarse litter from the barn yard was placed around each tree. This gradually rotted down and supplied the necessary fertilizing properties and in addition it kept the ground always moist and prevented the growth of grass and weeds. No amount of digging or labor of any kind will do as well as mulching. The roots of the quince grow very near the surface, indeed, they often show themselves on the top of the ground. The mulch keeps the ground in perfect order without digging and breaking the feeding roots.

Mulching is specially effective where it can be done with raspberries, both black and red. The former are most benefited by it as their roots do not travel to the extent that others do and consequently they cannot so readily supply the requisite amount of moisture. The mulch prevents the evaporation of water from the soil beneath it and also gathers more from the atmosphere. Well mulched berries will ripen all the fruit that sets, while those not mulched, should the weather prove a little dry, will frequently succeed in ripening not more than two thirds of the berries, the rest drying up.

Trees and vines which have been newly set are specially benefited by mulching, and if the practice was more generally in vogue we should hear far less complaints against nurserymen for

delivering poor stock. There is scarcely a tree or plant that it will not benefit. It must not be piled up in a little heap about the stalk or trunk, but should cover a space as large as the roots are supposed to penetrate, in young stock especially. Let our readers try it on a few berry bushes at once, leaving some unmulched and see the difference in the results.—[Orange County Farmer.

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### NATURAL VS. ARTIFICIAL SWARMING.

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Years ago our ancestors found out many things that could be done with bees, and a very few that should be done with them. They did not themselves close up the field of discovery, but left it for us to find out by careful practice, most of what can and can not be done profitably. Among other possibilities, they discovered that increase of colonies could be made at will but they left it for the practical producers of our day to demonstrate that there is more to be lost than gained by breeding by our wills rather than that of the bees. "The best time to set a hen is when the hen is ready," says that philosopher, Josh Billings, and the same philosophy is true of the economy of the bee hive. Those who still have not found out the losses sustained in artificial increase of any kind, are always willing to admit that we must not violate the instincts of the bees in any vital degree. Now I have experimented considerably in artificial swarming, having put to test all the reasonable plans that I could hear or conceive of, and yet I am most emphatically in favor of natural increase, as the most profitable of all. I have found no method that does not violate their instincts to a degree of appreciable loss to the producer. There is no season that I desire my bees to increase at all, and if I wish more colonies I prefer to purchase them with the money that I get for the honey from the apiary that does not increase. I know no way to profitably and safely prevent swarming. I can retard it somewhat, by shade and plenty of surplus room, but yet the instinct to reproduce the species still remains. I never try to prevent it by doing it artificially, as some do. This course generally results in doing it double. First you divide the colonies and then they have their turn at it. If you can keep the idea of swarming out of the minds of the bees do so, but don't try to change their minds or force their bodies to such positions as suits your mind after they have been seized with the impulse; for



"A bee removed against his will,  
Is of the same opinion still."

This matter of "opinion" in the minds of bees has much to do in accounting for the strange phenomena that two colonies that appear to be equal, prove to be very different in the honey-producing capacity. Natural swarms (first and second) have a radical impulse about them, that pays many fold for all the trouble connected with that system of increase. He who has not learned to make fully as much profit from his second as from his first swarms according to size, yea, even more, has much to learn in this regard. Properly managed our second swarms yield us more surplus pro rata than any other stock. They do the most perfect work, and make the best colonies for the next year. Let us make no advance on the systems of our forefathers, except such as are real progress. We want no changes merely for variety's sake. We want the best and most profitable methods all the time so far as we know them.—[James Heddon, in the Kansas Bee Keeper.

#### FROM OUR EXCHANGES.

TO KEEP EGGS.—1. Eggs may be kept for an indefinite time if packed when quite fresh in boxes with rock alum in shape like rock salt. Put in a thick layer of alum, then the eggs, small end down, cover with alum around and over them, and keep in a cool, dry place. 2. Slack fresh lime with boiling water; when cold, thin with cold water to the thickness of cream. Pack the eggs small end down, in a barrel or in stone jars, then pour on the cold whitewash covering the eggs. Care must be used in taking them out, as they are easily cracked. This has been used with success for forty years. 3. Three gallons of water, one pint fresh slacked lime, one half pint salt. Use perfectly fresh eggs with sound shells. If more lime is put in it eats the shell; if more salt it hardens the yolks. Put them in carefully, they will keep perfectly good for a year or more. 4. Hold perfectly fresh eggs in boiling water while counting six. A wire basket can be used for this purpose. Be sure to have water enough to entirely cover the eggs. Let them dry and cool, then pack in oats. Put a layer of oats on the bottom of the keg or barrel sufficient to support the eggs. Pack them closely, small end down, and proceed till the barrel is filled. Shake it gently to settle oats and eggs firmly. This method has given eggs a year after packing, in as good a state of preservation as when first

packed, in answer to several inquiries.—[Colman's Rural World.

CROSS FERTILIZATION.—Dr. E. L. Sturtevant has made some interesting trials at the Experiment Station, under glass, on the effects of cross and self-fertilization on several garden vegetables. Beans which were grown in pots, where they could not receive pollen from other plants or flowers, formed pods but no seeds. In one instance a plant of the cranberry bean blossomed before there was another flower open in the green-house, formed a pod with one seed, but eight other pods were seedless. Other bean plants, which could not receive cross-fertilization, bore in all with the proceeding, twenty-six pods, but only the one seed. The inference is therefore that cross-fertilization is extremely advantageous to the bean, and is always effected out doors in various ways. A similar result took place with the cabbage. Among the plants which were denied cross-fertilization, but which bore seeds abundantly, were the tomato, the pea, and the nasturtiums. These experiments, so far as limited experiments can give rules, indicate that in raising beans for seed, different sorts must be kept away from each other, to prevent crossing and mixing. But many varieties of the tomato and pea may be grown in the same plot without mixing. The greatest care, however, must be used to prevent the mixing of different varieties of cabbages.—[The Country Gentleman.

FEMALE ENDURANCE.—A student in a Michigan school having stated, in an essay, that men had more endurance than women, a lady took him to task for his statement, and remarked that she should like to see the thirteen young men in the University laced up in steel-ribbed corsets, with hoops, heavy skirts, trails, high-heels, panniers, chignons, and dozens of hair-pins sticking into their scalps, cooped up in the house year after year, with no exhilarating exercise, and see if they could stand it as well as the girls. Nothing, said she, but the fact that woman, like cats, have nine lives, enables them to survive the present regime to which custom dooms the sex. We think the lady has much the best of the argument, and, if the sex as a whole were only possessed of as much good practical sense as of endurance, we would see them lop off some of these absurd customs and articles of "clothing," and thereby reduce the pains and disorders and general breaking down which leaves woman a mere wreck while man is in his greatest vigor.



## Garden Notes for June.

June is the harvest month for early crops, and it demands a large amount of good management and energy to clear the early crops and the weeds away in season to make room for the late ones, which will soon cover the land. It is now the time to market spring spinach, kale, cabbage greens, radishes, lettuce, forced cucumbers, onion sets, cauliflowers and early cabbages, rhubarb and asparagus, green peas and strawberries.

The crops which are planted this month are cabbage seed from 1st to 15th, for late crop for winter market; squash from 1st till the 20th or 25th, the later the planting the less danger is to be feared from bugs. Melons and cucumbers transplanted from hot beds about the 5th to 10th. Melon seed may also be sown the first week in June in the field. Cucumber seed for pickling need not be put in till the 20th to 30th. Tomato plants set out the first week in June often do as well as those set earlier.

The warm weather of June is pretty sure to make plenty of work in destroying weeds; if possible this should be done by the cultivator or shove hoe, or the common hoe, leaving as little as possible to be done by hand; but where double crops are grown, such as spinach or radishes between the crops of roots, etc., it often becomes necessary to pull the weeds by hand when clearing off the early crop, before the hoe can be used safely. In general, it is far easier and better in every way to take the weeds when small and easily killed, than to wait until they are large and require hard pulling. Such weeds as chickweed and purslane, which very quickly go to seed, should be carefully removed from the land, in order to destroy the seeds they contain; the safest way is to dump them in some out of the way corner, where they can do no harm, or to compost them carefully with hot horse dung, which will effectually destroy the seeds, if the compost is turned carefully so as to bring all parts into the heat of the central portion of the heap. The outside of the heap does not become hot enough to destroy all the

seeds, but the middle does.

If a cold storm should occur just as the cucumbers and melons are coming up, they often die. The only remedy is to replant, and this may be done with melons as late as June 10 or 12, and with cucumbers for pickling, as late as July 6.

Celery plants are transplanted in June to the fields, where they are to grow among the onions, cabbages, etc. A cloudy day is best, and if hot weather follows, the plants will need watering for a few days. The celery plant is quite delicate and wilts easily, and often perishes for want of having the earth well pressed around the root in setting.

Pepper plants are transplanted from the hot bed to land that has been cleared of early lettuce, radishes, or spinach, about the middle of the month; they are a vigorous plant and easily grow in warm weather.

## CARE OF MANURE.

The gardeners who handle a large amount of fresh horse manure through the hot weather find it necessary to take care of it immediately, to avoid loss by excessive heating and drying up; there are three ways of doing this. First, by ploughing it under, using a large plough, two men following the plough with forks and poking the straw and coarse dung into the furrow; this is perhaps the best way, but it can not always be done. The second method is to throw the manure into hog yards to be trampled and worked over by the swine, who soon manufacture it into a compound having all the elements of plant food combined after the most approved chemical proportions and warranted to give satisfaction, when applied in sufficient quantity to any garden crop. The third method is to compost the manure with night soil and loam in sufficient quantities to prevent overheating, and to work it over from time to time in wet weather; a laborious method, but one which gives excellent results.

The gardeners who use a good deal of glass and haul a good deal of horse manure, usually have enough of such composts to supply the wants of nearly all crops raised by them; they have, however, used the standard fertilizers of the market



with success, as helps in starting a sudden growth, by applying them carefully in the hill or drill, after ploughing under a liberal dressing of manure; especially when the manure used is coarse, this is good practice, as it gives an early start to the vegetation, before the manure has time to decompose sufficiently for good plant food. It is, however, very important to mix these chemicals thoroughly with the soil, and not to allow them to come too close to the roots of the plants in any quantity; they are too strong and too acrid to be safe, except when largely diluted.—*W. D. Philbrick, in N. E. Farmer.*

### Bean and Pea Weevils.

BY M. B. DUMBELL.

Last year some one in SEED-TIME AND HARVEST asked a remedy for the pea weevil. At the time I thought of sending a recipe I use to keep the weevil out of my seed peas, but then I thought it would be the best to wait until the time came round for growing peas, so I now send it. But just let me say I do not know of any way of preventing the weevil from laying its egg in the peas. It makes no difference if you do sow sound peas, if your neighbors sow peas with the weevil in theirs, you will be sure to have them in yours. For a number of years all the peas I have grown have been of the dwarf kind, there are so many and such good dwarf peas now that I don't find it worth the trouble to grow those kinds that need brush to support them. It sometimes happens like it did last year, that heavy and long continued rains for the last half of spring and the early part of summer make it difficult to grow dwarf peas, the rain beats the pea vines into the ground and covers them with mud which causes them to rot badly and especially it is difficult to save seed for another year. When such is the cause with those peas I intend for seed, I go over them and turn the vines over all on one side then get boards and lay flat along the peas, throwing the vines over on the boards, when if rain comes it soon runs off the boards and no mud can get to the peas. When the pods are gray and the vines

begin to turn yellow, I pull them up by the roots and put them in a shed, where there is a free current of air, but where the rain can not get to them, turning them over two or three times a week. When the vines are dry I thrash the peas out, take up a few and try if I can indent any with my thumb-nail, if I can they are not dry enough, so spread them out for a few days more, but if I cannot notch any of them I know they are just right for what I want to do. Having a kettle of boiling water ready I get a colander, such as the women strain cooked cabbage through, (a sieve would do as well) also a tin wash basin that will hold about one gallon, and measure into the basin one quart of peas, then I pour into the basin a quart of boiling water, stir the peas for a moment, then instantly dash them into the colander; give it a shake and immediately empty the peas on a cloth and spread out on a bench in the sun being careful not to let one pea stand on another. I then repeat the process as before until all the peas are scalded, letting the peas dry for five or six hours, then store away in tin boxes so vermin will not get to them. This process is no theory but a fact. It is something I have been doing every year for over a dozen years. I never have any bugs in my peas, and ninety-five out of every hundred will grow if the peas are sown the following year. This process instantly kills the germ of every weevil that is in the peas, but it must be done as quickly as hands can do it, otherwise it will not only kill the germ of the weevils, but also the germ of the peas as well; in such a case the peas would do for the table but not for seed. I have no doubt this process would do equally as well for beans, for I see by SEED-TIME AND HARVEST the weevils have begun to infest that vegetable also.

### PHASES OF LIFE.

BY W. B. DERRICK.

THE "poetry of life" is seen  
In every bud and flower;  
The "prose" in ripened grain is read,  
And speaks with greater power.

FIRST, there must come the tender blade,  
And then, 'tis very clear,  
Next comes the corn, and then we have  
The "full corn in the ear."

*Baileyville, Ill.*



## LETTERS FROM THE PEOPLE.

## TRANSPLANTING CELERY.

Shakers, N. Y., May 30, 1883.

Friend Tillinghast: With all the explanations about raising Celery, please inform me whether I should set the plants, which you will send to me in June, in their final trench (or row) or should I plant them in open ground to grow for a time and then transplant them carefully to their final row, say August 1st. I am a novice and so are all here so far as I find. Please answer in SEED-TIME AND HARVEST.

CHANCY DIBBLE.

ANSWER: If you have a rich, moist bed or unoccupied corner in which you can set the celery plants about 4 or 6 inches apart where you can water them frequently and cut the tops back and keep them in good condition until about the 25th of July and then set them in their final trenches, you will no doubt be well repaid for all the extra work. If set in the field now they will grow but little during the hot, dry weather and will make but little growth anyhow, and by keeping them as above, ground now in use may be set with them as a second crop.

## CABBAGE AFTER PEAS.

Wabash City, Ind.

Mr. Tillinghast:

Dear Sir, Please tell me which is the best Cabbage for planting after early peas and early potatoes, Fottler's or the Winningstadt. Please give me a remedy for the green worms. Yours Truly, THEODORE CORY.

ANSWER: For very late setting, say after the middle of July, I should prefer the Winningstadt, Early Flat Dutch or Bleichfield to the larger drumhead sorts. We have no infalible remedy in our own practice for the green worm. Several remedies have recently been published in back numbers of this journal. The worms do not seem nearly as destructive now as a few years ago. Only the very small patches seem injured by them now to any great extent. Their natural enemies seem to be subduing them.

## "PARK BEAUTY" STRAWBERRY.

Mechanicville, N. Y., June 7, 1883.

Mr. Tillinghast:

Dear Sir, Your SEED-TIME AND HARVEST comes always bringing pleasure with it, and not pleasure only, but much valuable information. Please accept my warmest thanks for it.

Have you the Park Beauty Strawberry? I have read much about it, but do not know to whom to apply for it. Am very anxious to obtain a few plants. Very Respectfully,

MRS. R. G. WILLIAMS.

ANSWER: We have no strawberry or other small fruit plants for sale. We know nothing

whatever of the "Park Beauty," but presume if it possesses any unusual merit some of our advertisers in the small fruit line will soon offer it to our readers.

## FERTILIZERS FOR POTATOES.

Naponee, Neb., June 1, 1883.

Isaac F. Tillinghast:

Dear Sir, I am glad that I can say your seeds are doing very well with me. I have them nearly all sown and they came up as good as I could wish them to do. We have so much more rain than we used to. Mrs. B. Ayer of Bloomington, sent to you for a \$1.00 collection of mixed seeds which she gave me. I am very well pleased with your mixed seed system, it works well. I made a mistake with the potatoes, I put strong fertilizer too close to them and not enough soil between. If you desire for me to send you names of parties that use considerable seeds I can do so and you may either send them your catalogue or SEED-TIME AND HARVEST. Respectfully Yours,

HENRY BIHLER.

ANSWER. Many thanks for your kind words and generous offer of aid in our behalf. We have spent a large amount in advertising during the past few years in order to get our business before the public, and now think, if each of our friends would take the trouble, which you seem so willing, to speak a word in our behalf to their acquaintances it would prove the most effective advertising which could be done for us. We study to please, and whenever we fail shall be glad of an opportunity to try again if informed of the failure. In regard to the use of phosphates we have used Lister Brother's Ammoniated Dissolved Bone for years with good results and no evil effects from burning plants and seeds which come in contact with it. This season we tried, for the first time, a ton of the Stockbridge Special Manures and came near spoiling an eight acre corn field by dropping corn in contact with it. When dropped upon growing corn or other vegetation it will kill it as quickly as pure salt. We give the facts and our readers may draw their own conclusions from the comparison.

## A NEW CABBAGE ENEMY.

Oakdale Station, Pa., June 4th, 1883.

Mr. Tillinghast; Sir, I send you in the same mail with this letter a tin box containing some roots of Cabbage plants that are infested with small white worms or maggots that are destroying my entire crop of early cabbages. I have your book on vegetable plants, and you speak of the small white maggot that causes the club-root, and that it comes from the flea beetle; but I cannot think that this is the same, because it is four or five times larger than the flea beetle, and they are destroying the plants before they have attained the size when they are affected



with club root. I have been more or less troubled with club roots on my ground, but only on ground where cabbage had been grown the previous year. Nearly all my plants this year are set on ground where cabbage has not been grown for several years but had been cultivated in strawberries; the ground was plowed last fall and again this spring and manured with common stable manure. The plants were started in hot beds, in March, and when the proper size transplanted in cold frames and thence to the open ground. The soil used in hot beds and cold frames was old sods piled up a year ago with some manure mixed in.

I have been raising cabbage for several years with very good success but this enemy is new to me. I also showed them to an old gardener, and he says that he has never seen anything like it before, but thinks it is on account of so much wet weather that we have had this spring.

No doubt you are too busy at this season of the year to answer private letters, but you would oblige me very much by examining the contents of the box and report to me your opinion of the cause, and if possible a remedy. If I would plow up the ground and set in late plants, will the same thing be likely to destroy them? I purchased the seed from you and it grew very well and I was expecting to raise a fine crop, but I can hardly find a plant that is not infested with them. Yours Truly,

H. S. THOMPSON.

ANSWER. The box was received in good order, and its inhabitants alive and apparently undisturbed. They are entirely different from any worms we ever before saw in the roots of cabbage. As they much resemble "cheese skippers," we presume that they are the larvæ of some fly which has been attracted by a diseased condition of the plants. The maggots which we have spoken of in the "manual," as the larvæ of the flea beetle, are much smaller and do not burrow into the heart of the plant as these seem to, but may be found on roots where they feed on the small fibers or rootlets. We do not think that these maggots would attack healthy late plants set in the same ground, as they will probably pass into another stage of their existence. We would advise the use of lime or wood ashes as a remedy, but if all are as badly infested as the sample sent, we doubt any remedy proving effective.

In regard to club root we confess we know practically but little about it, except that by changing around the farm and selecting a place each year which has not for a number of years had anything of the cabbage tribe upon it, we have luckily never been troubled with it. We have known of plants from our beds being ruined by it before maturing, but believe in every case they were set on some old garden in which cabbage and turnips had been grown for years. We never yet knew of the plants being infested with club root on a fresh clover sod or virgin soil.

#### NUMBER OF PLANTS AND QUANTITY OF SEED TO USE.

A correspondent sends us the following with the request that we publish it for the benefit of our patrons. While some of the items do not exactly correspond with our experience we give it as written and if any of our customers can revise the list we will be glad to have them do so.

Asparagus roots, 1000 plants to a bed 4 by 225 feet.

Beans, 1 quart will plant 150 feet of row.

Beets, 1 ounce will plant 150 feet of row.

Cabbage, 1 ounce gives 2,500 plants.

Celery, 1 ounce gives 7,000 plants.

Cucumber, 1 ounce for 150 hills.

Lettuce, 1 ounce gives 7,000 plants.

Melon, 1 ounce for 120 hills.

Onion, 4 pounds to the acre.

Radish, 1 ounce for 100 feet of ground.

Spinach, 1 ounce to 250 feet of row.

Squash, 1 ounce to 75 hills.

Tomato, 1 ounce gives 2,500 plants.

Turnip, 1½ pounds to the acre.

J. I. RIDDLE.

#### PLANTING THE BUTTS.

Novi, Mich., June 13, 1883.

Isaac F. Tillinghast:

Dear Sir, The seeds came to hand promptly and in good order for which accept my thanks. Seeing your invitation for items of interest for publication I have ventured here again. In May number of SEED-TIME AND HARVEST I noticed "Improving Potatoes," by Thomas D. Baird. Here is my opinion; plant the butts, and for why: For illustration let us take an ear of corn. In ordinary seasons early in September, say for instance, let us strip back the husk on ordinary field corn, we find some ears have begun to turn yellow at the butts, while at the tips they are white and in the milk. From this we learn that the butts are ripe first, are the largest kernels, the earliest matured and fullest developed chit. Just what we want, which, when planted has the strength and vigor to grow and mature its seed. Before frost comes it is ready to receive it, not with a soft half-matured chit, but with a hard, full developed and fully matured chit that 10 below zero does not harm, at least such is my experience, and two or three years are required with careful selecting, if improving with earliness is required; in such a case, select the earliest ripe and plant the butts. I would like to hear from those who have planted the tips a few seasons. The butts of potatoes have been planted with like success. Small potatoes planted year after year produce failure.

Has anyone raised potatoes from transplanting the vine? I have, and this is how I did it: Before your early potatoes come in blossom, cut off a vine one inch below the surface of the soil and transplant as you would any other plant. If the weather is dry, water a few days. I have grown potatoes as large as goose eggs this way. Our SEED-TIME AND HARVEST says, "Nothing Without Labor." Stick a pin there. And now scratch your head. "Speak unto the earth and it will teach thee." Yours Truly,

HENRY L. LOCK.



## FLORICULTURE.

BY MIGNONETTE.

As we look at a display of flowers, we are not only attracted by the exquisite tints and shades of color and the delicate and different forms, but also we are led to ask of what use they are.

The time of bloom is the great era in the life of a plant, toward which all its previous growth is subservient, and from which all after life connected with it dates. Now this same plant is the indispensable link between inorganic substances and the animal kingdom; for it is the office of plants to convert portions of earth and air into something on which animals can subsist, namely, food. All food is produced by plants, and the glory of a plant is the flower. Are not flowers then to be ranked among the most important things? In the silent process of their life, plants, also purify the air for us to breathe. So we see they are absolutely essential to us, and in plants a very important part is played by the flowers.

Flowers are the mediums between the old plants and the new ones of the same kind, for they contain the seeds of the new plants, and therefore are the means of reproduction and perpetuation. So flowers are valuable in the highest degree.

According to the present economy of nature, there would be no fruits without flowers: therefore in respect to what they immediately promise in themselves alone, flowers are precious, and worthy of our grateful appreciation.

Sometimes flowers are incomplete in themselves, but their complements may be found on other individuals of the species; the breezes come in for their share in the perfection of the seed; insects, too, attracted by the fragrance and brilliancy of the petals, and aided by the form of the flowers perform their part, and take away industriously their sweet reward. All moves harmoniously in nature, because the whole universe is a thought of God.

The study of flowers and plants is very interesting and profitable. The microscope reveals in them the most wonderful splen-

dor and nicety of perfection, persuading us that these lovely objects retain their Eden purity unblemished by the taint of sin. One might well exclaim:

“There is no great and small  
To Him who maketh all.”

A knowledge of floriculture seems indispensably necessary to an agriculturist. By a study of botany he learns that many little blossoms, formerly regarded unworthy and inferior, were wayside flowers perhaps, are really marvels of loveliness and useful worth; and is impressed with the beauty of the flowers of the different June grasses, and learns their needs, and knows their value more intelligently. I wish that all might be stimulated to enlarge their usefulness and accomplishments by making more thorough researches into the nature and requirements of plants and flowers, for the mere pleasure of it will pay, and knowledge is power.

“Knowledge in the darkness shineth out a perfect day,  
As the lily over the rubbish sheds its marvellous array.”

Flowers come to gladden us from early spring through all summer long till the “melaucholy days have come,” and the mystery of the “burning bush is seen in every forest.” We will take our shoes off from our feet, and render homage to the all pervading presence of Him, who is the “Rose of Sharon and the “Lily of the Valley,” and who Himself has said that “even Solomon in all his glory was not arrayed like one of these” little flowers.

May we, as Mrs. Browning has written, “awaken, open wide the windows of our souls, and let the airs and outdoor sights sweep gradual gospels in, regenerating us. For everywhere,” she says, “we’re too materialistic, eating clay, instead of Adam’s corn and Noah’s wine. We hold the natural world too insularly, as if no spiritual counterpart completed it, consummating its meaning, rounding all to justice and perfection, line by line, form by form, nothing single nor alone. Nothing comes to us a mere itself; no lily-muffled hum of a summer bee, but finds some coupling with the spinning stars; no pebble at your foot but proves a sphere; cup, column, candlestick, all are patterns of what shall be in the Mount.”



We see that flowers are emblems of spiritual things; they point to the ideal, which is, in fact, the real; they are, as a poet has said, "Muses with messages from God to us."

Flowers are Divine poems of visible Nature, too grand to be uttered audibly, but chanted in the eloquent song of silence, which we may sometime understand, when mortal ears shall become spiritually attuned enough to hear the "music of the spheres."

Flowers are of practical use in their very beauty itself by winning us to that which is lovely, pure and graceful in thought, word and action; consequently, by means of flowers, moral and mental culture is attained.

A person cannot fail of a benefit by exercising love for flowers, and by cultivating and arranging them. His taste will be refined and general disposition improved, and so, by the aspirations which flowers incite, is his mind ennobled.

If I can only induce one person to investigate this great and delightful subject for himself, I shall not have written in vain.—*Webster, Mass., May 20, 1383.*

### Notes from the Jefferson Gardens.

BY Q. A. LOBINGIER.

I wish to caution your readers who have had but little experience in such matters, on a couple of points in my article on celery growing in the November Number of SEED-TIME AND HARVEST. First, on the matter of watering. It will not do to allow water to flow for a long time in one spot. It would destroy the active "working" roots. The real object is to thoroughly moisten the soil and as soon as that is accomplished the water should be withdrawn. Old or experienced workers in the soil will understand this, but beginners need the caution. If there are constant showers so that the soil does not dry out nor the plants get thirsty, no watering will be necessary. Such a season however, is very rare. And if celery is to be grown as close as rows two feet and plants six inches asunder in the row, *the land must be made*

*rich.* When you think you have it plenty rich enough just add as much more fertilizer.

#### TOMATOES TRAINED TO STAKES.

Last spring I concluded to give the Perfection Tomato a fair trial on stakes. I had a garden in the heart of the city 150x180 feet, surrounded by a fence 6 feet high. On the sides facing east, west and south I set on May 25th, 300 plants that has been well grown and five-inch oak stakes 6 feet long by 1½ inches square were driven into the ground beside each plant. The plant was allowed to grow but one stem, all side shoots being pinched off until the top of the stake was reached. They require the pinching and tying four times during the season and set an average of six clusters of tomatoes. Not one rotted and the flavor was so superior that we had as ready sale for them for slicing as we found for our strawberries, and at from 10 to 20 cents per quart when bushels were offered in the groceries at from 25 to 60 cents per bushel. The first ripe tomatoes were picked July 21, and the last on Nov. 4th. For retail sales or family use I shall never train in any other way.

*Steubenville, O.*

#### The Little Brown Jug.

Glug! Glug! Glug!  
By my corn cob plug,  
Said the jug  
Times are dull, old friend,  
Take a pull, old friend.  
Do you good— "Ah!"  
Warms the blood— "Ah!"  
Gives one strength— "Ah!"  
Unto life adds length— "Ah!"  
Isn't that the pure stuff! "Hic!"  
Ha! you like it, sure enough! "Hic!"  
Never mind about the weather,  
Into the ditch we'll roll together  
Two hard cases out upon a spree,  
Whisky mellow, drunk as drunk can be,  
What care we about a bed to-night?  
In this friendly snow drift tucked so tight,  
Let the blizzard rush, and let it roar,  
In unconscious bliss we'll lie and snore,  
Merc'ry down to 40, what care you or I?  
Alcohol within us must be forty high.  
Wife and children starving at home,  
But we'll warm 'em when we come,  
Flour barrel empty, clothing gone,  
Where is our next whisky pawn?  
But no matter. We're all right.  
Here's a plenty for to-night,  
Hey sir, my treat ouce more!  
Thaw that frozen snore!  
Frozen! Frozen! Glug!  
Like an icicle said the jug!

—*Temperance Advocate.*

If you think SEED-TIME AND HARVEST a good paper, subscribe for it.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

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OR TILLS A PLANT.

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VOL. IV., NO. VI.

WHOLE NO., XX.

LA PLUME, LACKAWANNA CO., PA.,

JUNE, 1883.

**The Celery Prize.**—Through oversight we have never announced the decision of the judges in regard to the Ten Dollar Prize offered last summer on Celery Culture. The prize was unanimously awarded and paid to Mr. Q. A. Lobingier, manager of the Jefferson Gardens, Steubenville, Ohio, for the article which appeared in our number of November last, and which is supplemented in this issue by the same valued correspondent. As the celery season is now approaching we beg to call attention to this prize article feeling assured that it will repay a second reading by all who are interested.

**Celery Plants.**—At the present writing, our Celery Plants are much better in quality and quantity than we have before had them in years, and we hope and trust that they will give excellent satisfaction to all purchasers. As will be noticed, we have slightly advanced the price on former years, but as a good celery plant is an expensive thing to grow we believe that better satisfaction will be given in charging a little more for a vastly better article than we have been doing in the past.

**The Cabbage Plant Business.**—Never before did we get into quite so great a muddle as our Cabbage Plant Business has brought us this season. Growing Cabbage Plants is about the most uncertain scheme in which a man can embark any way. In the first place nearly every man who wants any quantity of plants tries to grow them himself. If he succeeds, and we also succeed in growing a large quantity, we are left to plow ours under

and are laughed at and called a fool in the bargain for so overdoing the business. If he fails, he comes down upon us and thinks we are fearfully slack in business if we are unable to load him up in twenty minutes time. Of course no allowance is ever given us for making failures. We haven't much to think about or see to and should keep a few hundred thousand ready for an emergency, in case they are wanted, for it is known everywhere that we are in the business of growing plants for sale! If plants could be turned out by machinery at an hour's notice, and could be packed away and kept till wanted, we should try to never disappoint a customer, but when it takes five weeks to grow one, and 300,000 are demanded on a day on which we have but 100,000 ready, 200,000 will have to be waited for, and we cannot help it, no matter how sincerely we regret and deplore the fact. Some years we plow under what at another time would sell for thousands of dollars. They make good green manure but are terribly costly. All through the early part of the present season we had demands constantly for three times as many plants as we could supply. In consequence of this, nearly all who did get them were forced to take them before they were really large enough, and many had to wait a week for them to grow at that. The truth of the matter is, our reputation for supplying the best cabbage plants in the world is greater than we realized, and in consequence, we fear it has suffered greatly this season, but we hope our friends will bear with us this time in consideration of the facts. Next year we will promise to overdo the business in the matter of supply and fine quality to such an extent that if all do not get promptly all they wish we will stand the damages. But what we wish to announce here is, that by the time this is in print, or at farthest, by July 1st, we shall have a large quantity of fine plants of later sowings, and can fill orders promptly should you still wish them.

IN answer to W. D., we would say that E. L. Meyer, wholesale druggist, Hutchinson, Kansas, is ready to deliver new crop Russian Mulberry and Apricot seed.



## DOES ADVERTISING PAY?

Well, that depends upon a variety of circumstances. There are millions of money annually expended in this country in newspaper advertising, some of which has resulted in bringing fortune to the door of the advertiser, and some has instead, brought the sheriff. We have, during the past ten years, had a great deal of experience in this line and will give our readers, without cost, the benefit of what we have learned at great expense. We might boil our convictions down to the simple statement that as a rule *directly* it does not pay, but *indirectly*, it does. That is to say, that if a man inserts an advertisement in the best medium known in this country and looks to the direct returns or incoming cash which results from the insertion of the advertisement to pay for its insertion and leave him a profit after filling his orders, no matter what he advertises, he will nineteen times out of twenty be disappointed. If the gross amount of money which comes in as direct returns from the advertisement is sufficient to pay the advertising bill, leaving him to fill his orders without recompense, it is about all he ought to expect, or at least, it is about all he will realize regardless of his expectations. So we will go so far as to say that if a rogue advertises something that he never expects or intends to send, he will make nothing unless he cheats the printer out of the advertising bill. Now all this may look as though we had decided that advertising does not pay, and yet we know from experience that, in the long run, it does pay handsomely. In the case above cited, if the advertiser does not fill his orders satisfactorily he, of course, will never get another order from that customer or his friends, and there is where he foolishly loses the only chance there is of a profit emanating from the insertion of his advertisement. The best advertisement a man can have is a pleased customer. He will send you good orders from time to time and induce his friends to do the same at no expense to you whatever, but it is necessary to get a new customer before you can please him, and this is the prime use of

advertising. You can afford to fill a man's first order for nothing if you are shrewd enough to secure him as a permanent customer, and this is just what advertising for a customer amounts to, and as much as you should expect it to amount to. So money spent in advertising is invested in your business. It will bring you a handsome interest but it may be a long time before the principal is returned. Yet we believe if you do your whole duty by your customers as fast as you get them, you will in the end be rewarded with the return of both principal and interest. We began business without capital and expended all we could afford, sometimes more than we really should have afforded, in advertising. We did not expect the direct returns from each advertisement to afford a profit on the investment, and should in many cases have been sadly disappointed if we had expected it. The result is that we now have ten thousand or more good customers scattered all over the broad Union. A great portion of them are subscribers to SEED-TIME AND HARVEST and we believe they will, in most instances, bear witness to the fact that we have tried to please them in every deal. Of course, like any other rapidly growing business establishment, we have, many times, been short of sufficient help to do the right thing at the right moment, and we beg the pardon of any who may feel that they have suffered loss or inconvenience on our account. We sincerely hope that we have not lost the patronage of any from neglect. If we have, we will record the case as one where advertising did not pay. We realize and deeply feel and deplore the loss of a customer who drops out of the ranks in such a way, and whenever such a case exists we shall feel obliged to that customer if he will state to us kindly his dissatisfaction and what he desires us to do to satisfy and re-instate him. Leaving moral responsibility entirely out of the question we believe that if advertising pays—and we have said that our own experience has proved that it does—it will pay any business firm to suffer a considerable pecuniary loss, even to the re-filling of an order where necessary, to save themselves the loss of an old customer. This we have for years practiced doing, and are frank enough to say it is not done on account of any unusual goodness of heart, but purely out of selfish business motives, believing that money so expended is about on par with money expended in newspaper advertising, "thrown upon the waters" and sure to return though it may be "after many days."



### Notes from Neighbor Sisson.

Neighbor Sisson came in a few evenings ago and gave us a few points in Fruit Culture which we noted down for the benefit of our readers. By the way, we will remark that Mr. Sisson don't give us worthless theories, but practical points that have made him a successful fruit grower, as his fine orchards bear witness.

**TO KILL THE CURRANT WORM.**—Take a pound of white hellebore and mix it with twenty pounds of flour, or in that proportion for a larger or smaller quantity. Sift this mixture on the currant bushes early in the morning when the leaves are wet and you will not be troubled any more during the season.

**REMEDIES FOR THE APPLE BORER.**—For the prevention of the depredations of these troublesome pests, Mr. Sisson uses several compositions. One is a sort of paint composed of nearly equal parts of linseed oil, beeswax, rosin and whale-oil soap, to which is added a little carbolic acid. He washes the trunks of his trees with this in the spring and it will usually remain on them several months.

This remedy not only prevents the Borer from depositing its eggs, but it is also very distasteful to rabbits and mice that frequently girdle young trees.

Another wash for trees Mr. Sisson makes of Water-Lime and sulphur. This will remain on the tree for a year or more and is a good preventive of insect pests.

**TO DESTROY THE TENT CATERPILLAR.**—Take soft soap and make a very strong suds if it is half soap so much the better, and apply by tying an old stocking to the end of a pole and thoroughly wetting their nests. It is better to do this at night or early in the morning when the caterpillars are all at home. Every one touched by the soap suds will kick the bucket. Mr. Sisson says this is a "dead shot" remedy and does not disfigure the trees like burning the nests with powder or kerosene oil.

~~~~~  
 "We cannot measure the need  
 Of even the tiniest flower,  
 Nor check the flow of the golden sands  
 That runs through a single hour;  
 But the morning dews must fall;  
 And the sun and the summer rain  
 Must do their part, and perform it all  
 Over and over again."

### Truck Farming in the South.

The rapid development of truck farming and fruit growing in the south bids fair to bring about an industrial revolution in that portion of our country. A recent writer on the subject says:

"King Cotton has finally been dethroned in the Empire State of the south. The bonanza was first discovered about seven years ago in Lowndes county, down in southern Georgia, on the Florida line. McRee is the pioneer who blazed this new road to fortune. Seven years ago McRee bought and settled this place. He had tried cotton to his heart's content, and he was determined to find something better. The first experience in market gardening was cucumbers. He planted a few acres in 'cukes,' and raised several hundred bushels. Out of these he only sent about a hundred boxes to market. The clear profit was about \$4 per box.

Since then he has largely increased his operations, and from the humble, unsavory 'cuke' alone he now derives an income of \$6,000.

"That is wonderful to us of the south, though the north in its great prosperity may smile at the assertion. McRee plants no cotton at all now, but makes an abundance of corn and crab-grass hay for home demands. McRee's water-melons are now the chief attraction on this very attractive farm; He has planted 200 acres of them, and he proposes to have them in northern and western markets by the middle of June. He may reasonably expect to raise, taking last year's crop as a criterion about 100,000 melons. At a profit of ten cents each, and that is a low average, the melons will bring him \$10,000. Then he has cabbages, tomatoes, potatoes and other things and besides, his first love, the 'cukes.'

"His income from this farm, or rather from the acreage devoted to truck, about 127, clear of all expenses, is about \$28,000. That is \$120 per acre. In cotton planting, no matter what the yield is per acre, be it never so much or never so little, the income is one and invariable—it is absolutely nothing."

"Lowndes is the pioneer, but it has a brave following throughout southern and



middle Georgia. Truck farming has suddenly become a sensation. In the country and small towns you hear nothing else.

There is hardly time for local politics, and as to presidential candidates, they are myths of the future. Truck farming is far ahead of politics. Associations have been organized, conventions are being held, books and periodicals are being circulated, and railroads are bidding for the transportation of the truck. For the first time in about twenty years the light is breaking on the path of the southern planter."—*Farmer's Review*.

#### NOTES AND GLEANINGS.

THE ENGLISH SPARROW.—It was strongly argued before the West Chester Microscopical Society, that the English sparrow is a very great nuisance, and a resolution was passed asking that the members of our Legislature urge the repeal of all laws that prevents the destruction of these birds. We recognize this move as one in the right direction and hope our next Legislature will remove the blot which protects these villainous enemies of the farmer, fruit grower and gardener, and of our beautiful singing birds and the house wrens. We literally hate the English sparrows and would like to see "the small boy" legally let loose upon them.—*Maryland Farmer*.

["Them's our sentiments too."—ED.]

DID you ever see a toad eat? It is the most absurd performance. First, a reflective look at the animated victual (it must be alive) over one shoulder, as it were—suggestive of being suddenly struck by an idea that the subject might be worth consideration. Secondly, conviction that there is something interesting about it, and a closer and prolonged inspection. Thirdly, hesitation, obvious depreciation, and doubt; now sitting bolt upright, to ponder over the matter, and alternately raising and depressing the head in examination of the wriggling theme, with an action that reminds one irresistibly of an old gentleman looking over and under his spectacles in order to get a better view of some object. Lastly, smack! the tongue is shot out with a loud click, the meal-worm vigorously

swept into the mouth with the fore-feet, a visible throb of deglutition, a Dover-to-Calais sort of movement of the shoulders which seems to presage the immediate re-entree of the victim into society once more (it does sometimes, but only as a temporary respite), a solemn ten-second wink and the thing is done. Half a dozen more then satisfy Jack's appetite, as a rule; occasionally, when about to shed his skin, he refuses them altogether. I do not supply him with any food when he is at home, but I regret to say he abused my confidence the other day by wantonly devouring a litter of slow-worms which unfortunately introduced themselves to his notice in the cage—a fact which makes me now suspect that he knows something about the unaccountable disappearance of a tiny but rare, and beautiful African amphiscœna some time ago.

#### EARLY RISING.

Somebody who has no respect for the wise saws and modern instances thus satirizes the early-rising craze:

He who would thrive  
Must rise at five;  
He who'd thrive more  
Should rise at four;  
He who would most thriving be  
Should leave his bed at stroke of three;  
He who the others would outdo  
Should be already dressed at two;  
He who would never be outdone  
Should rise before the clock strikes one;  
And he who would thrive best of all  
Should never go to bed at all.

The convenience of this argument to a great many men—if they can only get its sequence logically through their heads and off their tongues after having been out all night—will be universally appreciated.—*Judge*.

TOMATO PLANTS bought of those who grow them for sale are apt to be quite tall and spindling, from having been crowded in the seed-bed or cold-frame. If only the root is set in the ground, the wind will often whip the life out of them. The better plan is to lay the stalk down nearly horizontal and cover it with earth to within three or four inches of the top, which should be given an upright position. Roots will put out all along that portion of the stem buried, and it will make a much stronger growth than if the roots alone were placed in the ground.



A LABEL FOR FRUIT TREES that seems to be a very excellent contrivance is thus described by the Country Gentleman; "Take a scrap of zinc, cut into strips a few inches long, half or three-fourths of an inch wide at one end, and half as wide at the other. The name is simply written on the wider end with a common lead pencil when moist, and this writing will last years. The other end is coiled once around the branch and the thing is done. As the branch grows the coil expands and no harm is done to the bark."

TO CHECK the ravages of the cabbage worm Joseph Harris dusts the plants, while the dew is on, with a mixture of plaster and superphosphate, say two of the first to one of the last. Whether or not this treatment lessens the number of worms, it certainly stimulates the growth of the plants, especially if the mixture be hoed into the ground around each plant. The only practical remedy he has ever tried, is heavy manuring and thorough cultivation, and the setting out of plants by the thousands instead of by the hundred.

THE production of sugar in the Northern States is being urged with a good deal of persistency, and, it is noticeable, that the cultivation of cane and sugar beet is attracting more attention from farmers. We are impressed with the belief that the time has come when we ought to increase sugar production, and that the agriculturist and the capitalist ought to combine to extend the resources of our country in this regard. The cane, which can be successfully grown at the North, will afford many farmers a profitable crop, while the sugar beet presents possibilities which deserve consideration. It is time that this country made itself more independent of foreign sources of supply for sugar. [The Country Merchant.

A SUBSCRIBER asks. What are the Langshans and the Wyandottes, and what are their characteristics?

The Langshans are a very large breed of fowls introduced from the north of China. Their color is black with a bright metallic lustre to their plumage, comb and wattles large and red, large tails, pinkish legs with a slight feathering to the middle toe. They are full a year old before coming to maturity, when they weigh from eight to twelve pounds. They are good layers and not much inclined to sit, although their eggs are very small for the size of the bird. An excellent breed generally.

The Wyandottes are what were formerly

called the American Seabrights. In many respects they resemble the Plymouth Rocks, being of about the same size, quiet and gentle in their habits, good layers, excellent mothers and quality of flesh first class. They are fine looking birds and well worthy of a place on the farm or in the yards of the fancier.

Management is the cheapest and most practical manure on the farm. The common plan is to have but one pasture, upon which cattle must graze at all times. If it comes to the bare sods during seasons of extreme drought, the stock must continue to grub away at the sod, for want of better feed. This exposes the roots of the grass to the sun, and injures or destroys the plant. Suppose we should use our trees and shrubs in that way, the detriment to growth would at once be apparent. Good management with grass is as necessary as with trees.

TO PROTECT CABBAGE and tomato plants from cut worms and grubs. All that is necessary is a sowing of one barrel of salt per acre just before setting out the plants. Years ago I learned this and it has been worth hundreds of dollars to me—J. O. Gilbert, Fort Wayne, Ind.

THE great cattle range of Wyoming under the military protection of Fort McKinney is about 900 miles square. Five hundred thousand head of cattle, worth \$27 per head, or \$13,000,000 in all, are now grazing on this area. To these can be added the value of the horses and ranches of the cattle men and the farmers and the stock of the Grangers, making at least \$15,000,000 of property under the protection of this post.

A LITTLE Philadelphia boy had his long curls cut off the other day, and was annoyingly reminded of the fact by the remarks of all his friends. To his delight, he escaped them by going with his family to the country. Soon after his arrival, however, he came running into the house in great sorrow, crying, "Mamma, mamma, even the hens laugh at me; they all say, 'cut-cut-cut-got-your-hair-cut?'"

"Eye-peeping" is now the favorite game for evenings. Two holes are made in a screen, against which some person hidden behind places his eyes, and the audience in front have to guess to whom the eyes belong. This is all very nice; but when a cross-eyed, squinting old dame, with eyes of a faded green, is put in behind the screen, and the guesser says he thinks they belong to Miss Somebody, who is a belle, he will be made uncomfortable whenever he meets her, thereafter.



**THE BANTAMS.**—There is no greater source of profitable enjoyment for a child than a few diminutive Bantams. They can be kept at a trifling expense, and a small box sometimes answers well for them as headquarters. They are good flyers, however, and the hawks are not wise enough to discriminate regarding their age, they are carried off like chicks. A latticed yard, covered in the same way, is the safest plan with them.—WESTERN FARM JOURNAL.

**THE PEA AND BEAN WEEVIL.**—The following remedy for these pests is traveling among our exchanges:

After harvesting, dry thoroughly in the sun, and afterward place in jars, cans or barrels that have been thoroughly heated before the fire, placing in each vessel a bottle of turpentine, not corking the bottle, but simply tying a piece of cloth over its mouth. Cover the vessels as airtight as possible, and afterward expose to the sun occasionally. The fumes of the turpentine engendered by the heat kill the egg of weevil deposited in the seed when it is green. This is an effectual remedy, and should be known to all seed growers North or South.

**BOT FLIES.**—John W. Rutherford, of St. Lawrence Co., N. Y., gives his experience as follows: In a field where bot flies were very plenty, I stopped my team to kill some of them. I stood near one of the horses with my hand under his throat; a fly stuck an egg on a hair of my arm (my sleeves being rolled up) which caused a sharp stinging pain, almost equal to the sting of a bee, which soon swelled to a hard lump. The fly did not touch the skin, and I cannot account for the effect, unless it ejected some poisonous fluid conveyed by the hair to the nerve. And I suppose the fly produces the same effect on horses, as we can find, on examining in bot fly time, little lumps between the jaws on the outside near the throat.

**USE OF LIME.**—The first and one of the most important rules to be observed in the use of lime is, that it should be applied in these large doses only to soils comparatively rich in humus, or strong clay soils, rich in finely-divided silicates.

It has been proved by experiment that lime will convert plant-food from insoluble to soluble forms in either case. We find the proverb current in France and Germany, as well as in our own language, that "lime without manure makes the father rich, but the children poor;" which means, plainly enough, not only should we start with a good soil in using lime, but should maintain its good condition by the liberal

use of manure. And we find that whenever, in this country or elsewhere, lime is used intelligently, manure is used freely.—Prof. Caldwell.

**WEARING OUT TOOLS.**—Farm tools will rust out sooner they will wear out. Many farmers injure their farm implements more by exposure to the weather than by the use on the farm. An implement which with good care would last twenty years, will, when exposed to the weather, become useless in five years or even less. A farm cart which, with good usage, would almost last a lifetime, will only a few years, when exposed to the weather. The explanation of the reason why farming does not pay with money is found in this neglect to take care of the farm tools. All farm implements are costly, and the farmer who has to buy three or four times as many as his neighbors because he does not take care of them, of course will not find much profit in farming. The same carelessness in any other kind of business, would insure equally as disastrous results.

**INDIGENOUS POTATOES.**—Mr. John E. Lemmon, a member of the California Academy of Sciences, has made a very important discovery. He has recently returned from a botanical excursion of several months in the range of rugged mountains in Arizona along the Mexican frontier. The discovery is that of two or three varieties of native indigenous potatoes, some of which were growing in mountain meadows, whose surrounding peaks were 10,000 feet above the level of the sea. The specimens were about as large as walnuts, and they were to be distributed among careful cultivators, who will experiment with them for a number of years to see what can be made of them. The original home of the potato has long been a matter of dispute, but we now know where one home is to a certainty. It is among the probabilities that from these Arizona tubers will come a new and vigorous race of potatoes to take the place of the short-lived varieties now grown. It is true we get occasional new and fine varieties from seed balls, but after all they are from the same old stock, the inheritants of disease and constitutional weakness, as is proved by the fact that all of them "run out" after a few years. They do not cease to appear in our markets because they are superseded by better varieties, but because they cease to be productive. Prof. Lemmon's discovery will be hailed with delight by scientists the world over.

**COMPARATIVE VALUE OF CORN AND OATS FOR HORSES.**—The comparative value of corn and oats for horses may be briefly stated as



follows: The former is deficient in many of the elements of nutrition so necessary for recuperating the constant wear and tear which necessarily takes place in the body of a living animal. On this account, horses which are exclusively fed on corn and hay do not receive that kind of nourishment which appears necessary for the due support and maintenance of the animal fabric; hence, we must not be surprised that corn-fed horses show evidence of being languid, by sweating profusely while being worked, lack of vitality, etc. Oats, on the contrary, contain more of the essential elements of nutrition than any other article of food which can be fed with impunity to horses. Oats are not only the most natural food for horses, but are decidedly the most nutritious. They are the cheapest, because there is less risk in feeding them, and experience has proved that horses properly fed on oats and timothy hay can, with regular exercise, good grooming, and proper sanitary regulations, be brought to the highest state of physical culture, and can perform more work with less evidence of fatigue than when fed on any other article of food.—NATIONAL LIVE STOCK JOURNAL, CHICAGO.

FARMING IN BELGIUM.—Belgium produces on its small unfenced farms the largest crops per acre that are raised in any part of the world. Farming is there a species of gardening. The wheat crop receives an attention commensurate with its importance. The seed is sown broadcast and thick in the fall, in carefully prepared beds of rich soil, and comes up thick, rank and strong, remaining all winter, covering the ground like a mat. In the spring the field is deeply plowed, harrowed and drilled, in rows from ten to twelve inches apart. The plants are pulled up, carefully separated and dropped singly at distances of from four to six inches. The planter follows the dropper with a trowel or paddle, makes holes and sets out the plants as one would strawberries. This is a tedious process, not adapted to one-hundred-acre lots or one-thousand-acre farms, but on the five acre Belgium farms amply repays the labor. The plants branch into stools, producing several stalks, each with heavy heads of grain, and yielding at harvest from one hundred to one hundred and fifty bushels to the acre.—[American Miller.

SUBSOIL PLOWING.—I am surprised that farmers do not employ the subsoil plow more generally than they do. It is a grand implement. What would the nurseryman do without it? If properly used I believe it would, on most

farms in this country, nearly or quite double the productive capacity of the soil. Farmers are buying expensive fertilizers far less valuable than might be found in their own soil by deep plowing and tillage. It is the subsoil plowing and thorough tillage that enables a nurseryman to take 40 or 50 bushels of wheat to the acre, without manure, from land that had been cleared of a four or five-year crop of trees. Plow deep, keep the surface freely fertilized and constantly stirred once a week or oftener, cultivate deeply and thoroughly and defy the drouth.—[Patrick Barry.

PYRETHRUM.—Some information would be appreciated in regard to this new plant that is being introduced into this country by the Department of Agriculture, of which a recent circular says: "In the Spring of 1881 Prof. C. V. Riley, on behalf of the U. S. Entomological Commission, distributed the seed of *Pyrethrum roseum* and *Pyrethrum cinerariaefolium* to a number of correspondents in different parts of the country, and while the excessive drouth rendered the experiments in growing it in many cases unsuccessful, yet the reports are sufficiently favorable to warrant a further trial. The value of these plants in furnishing a perfectly effectual insecticide that can be used against many of the worst insects injurious to our crops, as well as against household and greenhouse pests without damage to man or beast, has been fully established by experiments made under his direction during the past two years. The general cultivation of the plants in all sections where they will succeed is, therefore, most desirable."

SOUR MILK FOR CALVES.—A successful Vermont dairyman who is noted for the fine appearance of his stock says he takes the calves from his cows when two days old, and at first feeds them on milk which has set twelve hours and skimmed, gradually bringing them on to sour milk, which is usually accomplished by the end of the first week. As a substitute for cream removed he pours in a little melted tallow, and begins to stir in a little bran by the second or third week. Great care should be used not to over-feed the first two or three weeks.

Johnny and Tommy were playing out in a street where there was much fast driving, and where they had been forbidden to go.

"Hello," said Johnny, "there comes a spanking team."

"Where?" asked Tommy.

"Right across the street there; it's your mother and mine, and we'd better cut sticks and get out of this," which they did, with their mothers after them.



## SAVE THE BONES.

BY THOS. D. BAIRD.

Manure is the life of gardening and should be collected from every source it can be. Every gardener knows the value of stable manure and endeavors to get all he can, but there are other sources of getting manure of great value. Bones reduced to a powder are an excellent fertilizer and can be obtained cheaply. I save all the bones of beeves and hogs and from the table, and store them away in barrels and in the winter, as soon as I have ashes, I place a layer of ashes at the bottom and then a layer of bones in alternate layers, putting about two-thirds ashes. This is kept thoroughly moist; if done with chamber lye and soap suds all the better. By spring these bones are soft enough to be easily reduced to powder. This mixture has a telling effect on growing crops. As it takes all winter to dissolve bones and as the bulk of my ashes were obtained in the latter months of winter I decided to try a new way. The bones were all carefully saved and stored away in barrels; ashes were carefully saved and in the spring a hopper was made and filled with ashes, putting straw or husks at the bottom of the hopper. These ashes were leached and the lye put in a large kettle of bones and boiled; and in a short time I had a fine lot of bone dust. It did not take much longer to reduce these bones than to make soap. Try it.

WE USED TO ADVOCATE cutting potatoes for seed to single eyes, and practiced putting less seed on an acre than any of our neighbors. We still believe that as a rule single eyes will produce larger tubers than heavier seeding, but since the advent of the potato beetle we find that it is poor policy to cut so fine, for the bugs always select the weak shoots and are quite apt to conquer them.

## CHEAP ROOF PROTECTOR.

A correspondent of the Iowa Homestead on the above subject says:

There are a class of men scouring through central Illinois "painting" roofs of barns, corn-cribs, grain elevators, and the various kinds of metal roofs, and I know from observation that the paint does give good satisfaction; the prices asked for this work vary according to the length of the purse the property owners are supposed to have, being from 30 cents up to \$1.00 per square 10x10 feet. This "paint," which is nothing more than coal-tar, is obtained from the cities where gas is made and does not cost more than

\$2.00 to \$2 50 including the barrel. These men try to make believe that there is a great secret connected with mixing the "ingredients." The formula is this and it don't vary much: Take a coal-oil barrel to the gas house and fill to 2 gallons out, then go to the drug store and put in 2 gallons gasoline, bung the barrel tight. The hauling home will thoroughly mix it, and when ready to use it, run into a bucket and add two double-handfuls of cement; stir this together and apply with a white-wash brush with a long handle.

While working on roofs always wear rubber boots or shoes; these will take a better grip on shingles or board roofs than stockings. Apply during the dry time in summer months, one or two coats. Many men have failed to find a benefit from using coal-tar alone, because it has a gummy nature and does not penetrate the wood, but with the above mixture the trouble of scaling off will be gone and a good slate-like coat will be left that will shed the water rapidly.

Use linseed oil to clean your hands, this is the best, although any grease will do.

Don't put this on house roofs where the rain water is to be used for cooking purposes, as it leaves a disagreeable taste for a year or more. If the roof is old and leaky, have some old oyster cans, or any old tins, and make tin shingles, and slip them in the leaky places.

A MAN up-town made a wager with a lady that he could thread a needle quicker than she could sharpen a lead pencil. The man won. Time, fourteen minutes and forty seconds. It is thought the result would have been different if the woman had not run out of lead pencils inside of five minutes.—NORRISTOWN HERALD.

IT has been noticed by a shrewd writer on American manners that a mechanic in search of work is "out of a job," a clerk in the same predicament is "disengaged," and a professional man is "at leisure." The mechanic "gets work," the clerk "connects" himself with some establishment, and the professional man "resumes practice."—EXCHANGE. The farmer is the only man we know who needs no such expressions. He "takes hold" when a boy and never lets go.

THERE is pathos in this from the Boston TRANSCRIPT: "Here I've been talking for half an hour!" exclaimed an auctioneer, "and I haven't got an offer." "Half an hour, indeed!" murmured an elderly maiden; "what's half an hour to so many long years, and still no hope of an offer!"



## AMONG OUR EXCHANGES.

A lively and valuable magazine is the **POULTRY MONTHLY** published at Albany, N. Y., and poultry fanciers will not go far wrong if they follow its teachings. Excellent suggestions for the poultry yard are found in its pages, and its illustrations while not as profuse as are given in some magazines are decidedly first class. \$1.25 per year.

THE **SOUTHERN WORLD** for May 15th is truly a "journal of industry for the farm, home and workshop," and the people of the sunny south may well pride themselves upon the enterprise of their farmers and planters in sustaining the valuable magazines that have been established in their midst within the past few years. In every essential, both in editorial arrangement and mechanical execution it will compare favorably with the best in our land. Published twice a month at Atlanta, Ga., at \$1.00 per year.

THE **SOUTHERN CULTIVATOR** for June is on our table and it gives us pleasure to note the continued improvement shown in each number since it came into the hands of the present proprietors. We are glad to hear that it is so well sustained by the southern farmers and trust the efforts of the publishers may be as liberally supported as they deserve to be. The table of contents is an interesting one and the number can not fail to prove an interesting one to all classes. We can but advise every farmer not already a subscriber to send James P. Harrison & Co., Atlanta, Ga., \$1.50 and secure this valuable publication a year.

AMONG the many finely printed and well-edited magazines that come to our table the **LADIES FLORAL CABINET** is one of the finest and neatest. The June number is excellent. It contains much matter of interest to those who love flowers and are fond of adorning their household with articles of beauty and utility. The house-keeper's department is full and well conducted. Several excellent engravings adorn the number. Published at 22 Vesey St., N. Y. at \$1.25 per year.

**DEMAREST'S MAGAZINE** for July is an elegant number. Among its numerous illustrations is a Bas-relief of the head of the famous Greek demi-god Perseus, reproduced in plaster papier from a celebrated bronze bust. This is among the latest novelties of magazine work and would form a fine ornament for a panel or mantel. In its literary department it takes a front rank, articles from the pens of such well-known writers as Margaret E. Sangster, Kate Sanborn, Anna Ballard, Jennie June and others frequently appearing. A large amount of space is devoted to the household arts, Fancy work, the Kitchen, &c., while the fashion department is most complete, being a perfect mirror of the latest fashions, which, if used as a guide by the ladies in preparing their wearing apparel will give them such styles as are in vogue among the most refined and cultivated ladies of our land. 20 cents a number or \$2.00 a year. Published at 17 East 14th St., N. Y.

THE excellent article on "Choosing a Business" in this issue written by James Parton, and published in the **YOUTH'S COMPANION**, is a fair sample of many articles from the pens of distinguished writers who contribute to the pages of that interesting paper for boys and girls, and which are published in every issue throughout the year. The 52 numbers constituting a volume contained over four hundred large pages of choice reading and would make a volume as large as Webster's Dictionary, and worth nearly as much to any boy in the land. We advise fathers and mothers having children to educate to invest \$1.75 with Perry Mason & Co., Boston, Mass., for a year's subscription and they will not regret it.

AN excellent little monthly is the **KANSAS BEE-KEEPER**. A change in its form making it considerably larger shows that it is prosperous financially, and the amount and character of its matter proves its editor to be a proper caterer for his numerous

patrons. We notice the leading articles are written by some of the most successful bee-keepers in the country, J. E. Pond, Jr., James Heddon, G. W. Demaree and others being represented in the May number. Kansas appears to be a fair honey-producing State and the **BEE-KEEPER** should receive a hearty support. Published by Scovell & Anderson, Columbus, Kansas, at 60 cents per year.

THE **POULTRY BULLETIN** for June is a capital number. A timely article by the editor, entitled "June in the Poultry Yard," shows him to be master of the situation with regard to rearing poultry, and the other articles which are timely and practical are arranged with due regard to the necessities of those who rear poultry for pleasure and profit. Published at 62 Cortland St., N. Y., at \$1.25 per year.

**BROOKLYN BRIDGE AND MAYOR BEATTY;**  
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On the 3d of January, 1870, the work of preparing for the foundation of the towers of the now famous Brooklyn Bridge was begun. On April 1, 1870, Daniel F. Beatty left his father's home in Hunterdon County, New Jersey, penniless. To-day he owns the largest Reed Organ Works in existence, and doing a business of several millions of dollars annually. Credit is due to those who managed the great Bridge, same may be said in reference to Mayor Beatty, of Washington, New Jersey, who now is shipping an organ every ten minutes.

WE HAVE received from Van Deusen & Son some samples of comb foundation which for quality of workmanship is equal to any we have ever seen. The specimens are flat bottomed, and are of three grades, viz: thick for brood combs, thin for starters in section boxes, and wired to show manner of preparing it so as to prevent sagging and breaking down. We are not posted as to how the bees regard the flat bottomed foundation, but if the manufacturers send to their customers goods one half as well made as their samples he must be a fastidious person who would complain.

## Advertisements.

*In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.*

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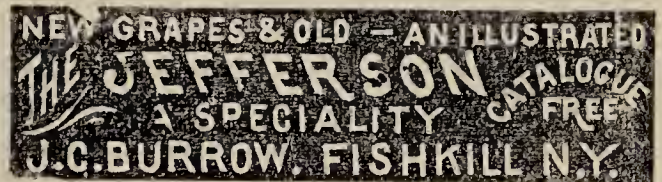
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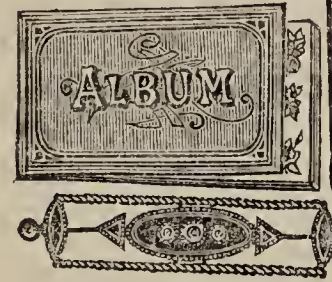


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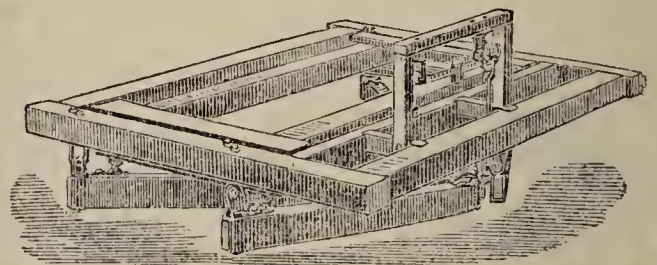
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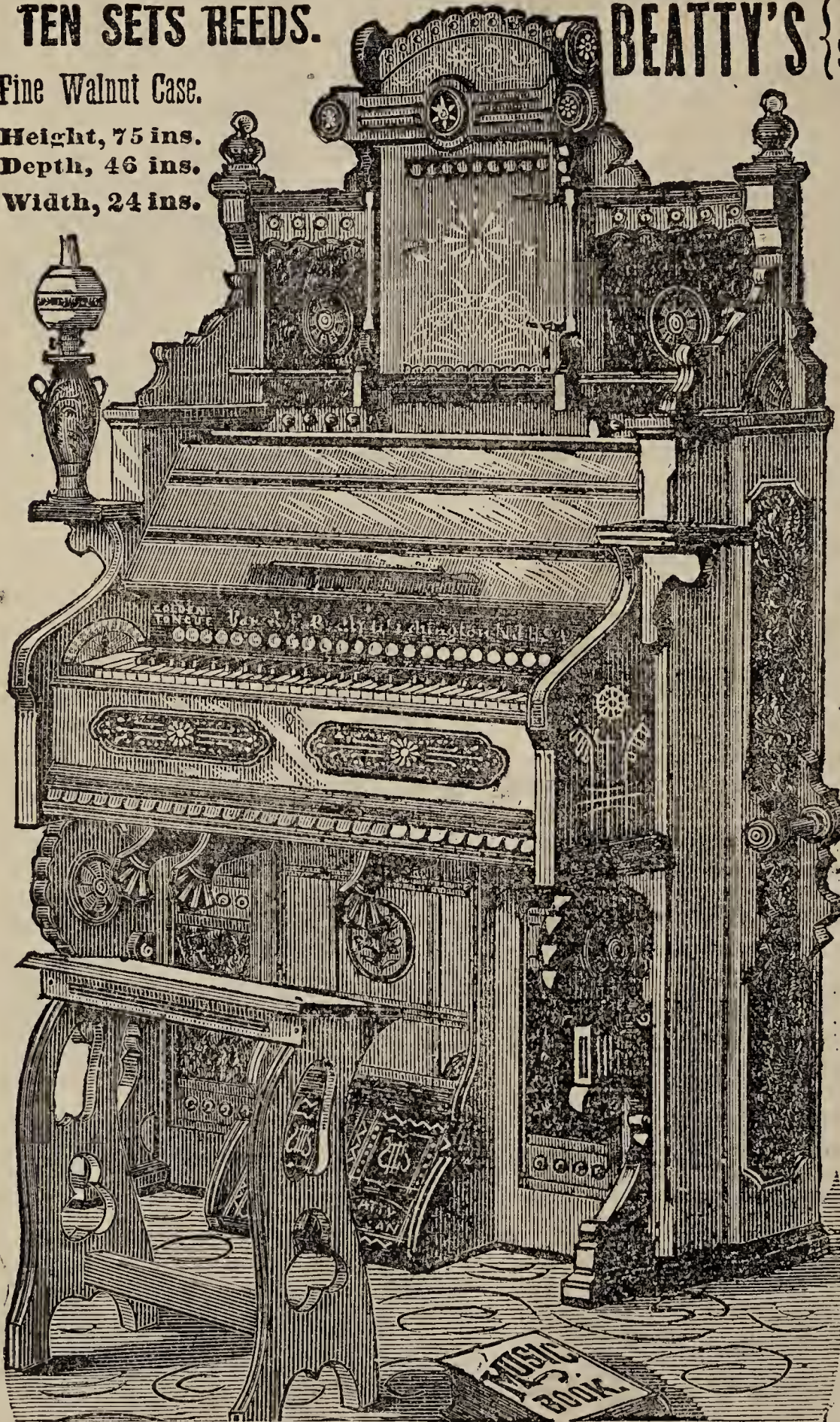




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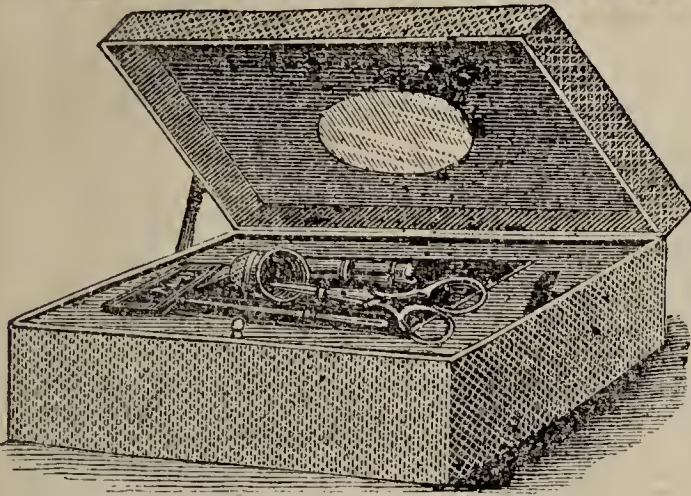
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| Golden Hartwell, New    | 15 | —  | —    |
| La Plume Chestnut, New  | 10 | 25 | 3.00 |
| Crawford's Half Dwarf   | 05 | 25 | 3.00 |
| Carter's Dwarf Crimson  | 10 | 25 | 3.00 |
| New Golden Dwarf        | 10 | 25 | 3.00 |
| Dwarf White Solid       | 05 | 25 | 3.00 |
| Boston Market           | 10 | 50 | —    |
| Sandringham             | 05 | 25 | 3.00 |
| Giant White Solid       | 05 | 25 | 3.00 |
| Celeriac, Turnip Rooted | 05 | 25 | —    |
| Above Varieties Mixed   | 10 | 30 | —    |

### Chicory.

|              |    |    |      |
|--------------|----|----|------|
| Large Rooted | 05 | 10 | 1.25 |
|--------------|----|----|------|

### Cress.

|                        |    |    |      |
|------------------------|----|----|------|
| Curled, or Peppergrass | 05 | 10 | 1.25 |
| Water Cress            | 10 | 60 | —    |

### Cucumber.

|                            |      |     |      |
|----------------------------|------|-----|------|
| Tailby's Hybrid, New       | Pkt. | Oz. | Lb.  |
| Early Cluster              | 05   | 10  | 1.50 |
| Early Russian              | 05   | 10  | 1.25 |
| Peerless Early White Spine | 05   | 10  | 1.25 |
| Green Prolific             | 05   | 10  | 1.25 |
| Long Green                 | 05   | 10  | 1.25 |
| Above Varieties Mixed      | 05   | 10  | —    |

### Egg Plant.

|                         |    |    |   |
|-------------------------|----|----|---|
| Long Purple             | 10 | 50 | — |
| Improved N. Y. Purple   | 10 | 60 | — |
| Very Early Dwarf Purple | 10 | 50 | — |
| Striped Gaudalupe       | 10 | 60 | — |
| Long White China        | 10 | 60 | — |
| Above Varieties Mixed   | 10 | 60 | — |



# SEED-TIME AND HARVEST.

|                                 |             |            |            |
|---------------------------------|-------------|------------|------------|
| <b>Endive.</b>                  | <i>Pkt.</i> | <i>Oz.</i> | <i>Lb.</i> |
| Green Curled .....              | 05          | 20         | 2.00       |
| <b>Gourds.</b>                  |             |            |            |
| New Nest Egg .....              | 15          | —          | —          |
| <b>Kohl Rabi.</b>               |             |            |            |
| Large Purple, .....             | 10          | 35         | —          |
| Early White Vienna .....        | 10          | 35         | —          |
| Above Varieties Mixed.....      | 10          | 35         | —          |
| <b>Lettuce.</b>                 |             |            |            |
| Black Seeded Satisfaction ....  | 05          | 20         | 2.00       |
| Royal Summer Cabbage .....      | 05          | 20         | 2.00       |
| Black Seeded Simpson, New,..    | 05          | 30         | 4.00       |
| Hanson .....                    | 05          | 20         | 2.00       |
| Victoria .....                  | 05          | 20         | 2.00       |
| Early Curled Simpson .....      | 05          | 20         | 2.00       |
| True Boston Market .....        | 05          | 20         | 2.00       |
| White Seeded Tennisball.....    | 05          | 20         | 2.00       |
| Black Seeded Tennisball.....    | 05          | 20         | 2.00       |
| Drumhead, or Malta .....        | 05          | 20         | 2.00       |
| Above Varieties Mixed.....      | 05          | 20         | 2.00       |
| <b>Leek.</b>                    |             |            |            |
| Large Scotch Flag .....         | 05          | 30         | 4.00       |
| <b>Musk Melon.</b>              |             |            |            |
| Nutmeg.....                     | 05          | 10         | 1.25       |
| Skillman's Netted.....          | 05          | 10         | 1.25       |
| Improved Yellow Cantaloupe      | 05          | 10         | 1.25       |
| Green Citron.....               | 05          | 10         | 1.25       |
| Pine Apple .....                | 05          | 10         | 1.25       |
| Jenny Lind.....                 | 05          | 10         | 1.25       |
| Surprise, New, .....            | 05          | 15         | 2.00       |
| Bay View, New, .....            | 05          | 15         | 2.00       |
| Montreal Green Nutmeg, New,     | 05          | 20         | 3.00       |
| Netted Gem .....                | 05          | 20         | 3.00       |
| Hackensack .....                | 05          | 10         | 2.00       |
| Christiana Orange .....         | 05          | 10         | 2.00       |
| Above Varieties Mixed.....      | 05          | 10         | 1.50       |
| <b>Water Melon.</b>             |             |            |            |
| The "Boss," New, .....          | 05          | 20         | 3.00       |
| Japan Sculptured-Seeded ....    | 05          | 20         | 3.00       |
| Cuban Queen, New.....           | 05          | 20         | 3.00       |
| Phinney's Early.....            | 05          | 10         | 1.25       |
| Striped Gipsev.....             | 05          | 10         | 1.25       |
| Ice Cream .....                 | 05          | 10         | 1.25       |
| Mountain Sweet .....            | 05          | 10         | 1.25       |
| Ferry's Peerless .....          | 05          | 10         | 1.25       |
| Citron. (for preserving,) ..... | 05          | 10         | 1.25       |
| Above Varieties Mixed.....      | 05          | 10         | 1.25       |
| <b>Mustard.</b>                 |             |            |            |
| White French.....               | 05          | 05         | 60         |
| Black American .....            | 05          | 05         | 60         |
| <b>Onion.</b>                   |             |            |            |
| Southport Yellow Globe, New     | 05          | 20         | 2.00       |
| Southport Red Globe, fine,....  | 05          | 20         | 2.00       |
| Early Red Globe.....            | 05          | 20         | 2.00       |
| Yellow Danvers.....             | 05          | 15         | 1.60       |
| Red Wethersfield .....          | 05          | 15         | 1.60       |
| Large Yellow Dutch.....         | 05          | 15         | 1.50       |
| White Globe .....               | 05          | 20         | 2.00       |
| White Portugal.....             | 05          | 20         | 2.00       |
| New Queen .....                 | 05          | 20         | 2.00       |
| White Italian Tripoli.....      | 05          | 20         | 2.00       |
| Giant Rocca.....                | 05          | 20         | 2.00       |
| <b>Parsnip.</b>                 |             |            |            |
| Smooth Hollow Crowned ....      | 05          | 10         | .75        |
| Early Round.....                | 05          | 10         | .75        |
| New Maltese .....               | 05          | 10         | 1.00       |
| <b>Parsley.</b>                 |             |            |            |
| Extra Fine Curled .....         | 05          | 15         | 2.00       |
| <b>Pepper.</b>                  |             |            |            |
| <b>New Golden Dawn</b>          | <b>15</b>   |            |            |
| Sweet Bell or Bull Nose.....    | 10          | 25         | 4.00       |
| Large Sweet Mountain.....       | 10          | 25         | 4.00       |
| Red Cayenne .....               | 10          | 25         | 4.00       |
| Spanish Monstrous (New) ....    | 10          | 40         |            |

|                                      |             |                |             |            |     |
|--------------------------------------|-------------|----------------|-------------|------------|-----|
| <b>Pumpkin.</b>                      | <i>Pkt.</i> | <i>Oz.</i>     | <i>Lb.</i>  |            |     |
| Large Cheese.....                    | 05          | 10             | .85         |            |     |
| Sugar. (Fine for pies,).....         | 05          | 20             |             |            |     |
| Connecticut Field .....              | 05          | 05             | .45         |            |     |
| <b>Radishes.</b>                     |             |                |             |            |     |
| Early Scarlet Turnip .....           | 05          | 10             | 1.00        |            |     |
| Early White Turnip .....             | 05          | 10             | 1.00        |            |     |
| Long Scarlet Short-Top.....          | 05          | 10             | 1.00        |            |     |
| Early Scarlet Olive .....            | 05          | 10             | 1.00        |            |     |
| French Breakfast.....                | 05          | 10             | 1.00        |            |     |
| Grey Summer Turnip.....              | 05          | 10             | 1.50        |            |     |
| Golden Yellow Summer (New)           | 05          | 10             | 1.50        |            |     |
| Summer Varieties Mixed....           | 05          | 10             | 1.25        |            |     |
| China Rose Winter .....              | 05          | 10             | 1.00        |            |     |
| Black Spanish Winter .....           | 05          | 10             | 1.00        |            |     |
| California Mammoth White..           | 05          | 15             | 2.00        |            |     |
| Winter varieties Mixed .....         | 05          | 10             | 1.50        |            |     |
| <b>Rhubarb.</b>                      |             |                |             |            |     |
| Linnæus .....                        | 05          | 10             | 1.60        |            |     |
| <b>Salsify, or Vegetable Oyster.</b> |             |                |             |            |     |
| White French.....                    | 05          | 15             | 1.50        |            |     |
| <b>Spinach.</b>                      |             |                |             |            |     |
| Round Leaved .....                   | 05          | 05             | 0.50        |            |     |
| Monstrous Viroflay .....             | 05          | 10             | 1.00        |            |     |
| <b>Squash.</b>                       |             |                |             |            |     |
| Low's Essex Hybrid, New,....         | 10          | 15             | 2.50        |            |     |
| Early White Bush .....               | 05          | 10             | 1.00        |            |     |
| Summer Crookneck .....               | 05          | 10             | 1.00        |            |     |
| Hubbard .....                        | 05          | 10             | 1.25        |            |     |
| Marblehead .....                     | 05          | 10             | 1.25        |            |     |
| Butman, .....                        | 05          | 10             | 1.25        |            |     |
| Mammoth.....                         | 10          | 30             |             |            |     |
| <b>Tobacco.</b>                      |             |                |             |            |     |
| Connecticut Seed Leaf.....           | 10          | 30             |             |            |     |
| Spanish Long Leaf.....               | 10          | 30             |             |            |     |
| <b>Tomato.</b>                       | <i>Pkt.</i> | <i>Hf.-Oz.</i> | <i>Oz.</i>  |            |     |
| Livingston's Favorite, New,          | 20          |                |             |            |     |
| President Garfield, New,.....        | 10          |                |             |            |     |
| Essex Hybrid, New.....               | 10          | .30            | .60         |            |     |
| Ford's Alpha, New, .....             | 10          | .30            | .60         |            |     |
| Acme, .....                          | 05          | .20            | .40         |            |     |
| Mayflower, New, .....                | 10          | .30            | .60         |            |     |
| Red Currant .....                    | 05          | .25            | .50         |            |     |
| Paragon .....                        | 05          | .25            | .50         |            |     |
| Canada Victor .....                  | 05          | .15            | .30         |            |     |
| Conqueror .....                      | 05          | .15            | .30         |            |     |
| Livingston's Perfection, ....        | 05          | .30            | .60         |            |     |
| Trophy .....                         | 05          | .15            | .30         |            |     |
| Island Beauty.....                   | 05          | .30            | .60         |            |     |
| Green Gage.....                      | 05          | .15            | .30         |            |     |
| Golden Rural, New,....               | 05          | .20            | .40         |            |     |
| Saint Paul, (New) .....              | 10          | .30            | .60         |            |     |
| Above Varieties Mixed.....           | 05          | 20             | 40          |            |     |
| <b>Turnip.</b>                       | <i>Pkt.</i> | <i>Oz.</i>     | <i>Lb.</i>  |            |     |
| New White Egg,.....                  | 05          | 10             | 1.25        |            |     |
| Early White Dutch.....               | 05          | 10             | .80         |            |     |
| Purple Top Strap Leaf.....           | 05          | 10             | .80         |            |     |
| Long White Cow Horn .....            | 05          | 10             | .80         |            |     |
| Large White Globe.....               | 05          | 10             | .80         |            |     |
| Yellow Aberdeen .....                | 05          | 10             | .80         |            |     |
| Yellow Globe .....                   | 05          | 10             | .80         |            |     |
| Golden Ball.....                     | 05          | 10             | .80         |            |     |
| Above Varieties Mixed.....           | 05          | 10             | .80         |            |     |
| <b>Rutabaga, or Swede Turnip.</b>    |             |                |             |            |     |
| White French, or Sw't German         | 05          | 10             | 80          |            |     |
| Skirving's Purple Top Yellow         | 05          | 10             | 80          |            |     |
| Brill's American Yellow .....        | 05          | 10             | 80          |            |     |
| Shamrock Swede, Yellow.....          | 05          | 10             | 80          |            |     |
| Above Varieties Mixed.....           | 05          | 10             | 80          |            |     |
| <b>Herb Seeds.</b>                   | <i>Pkt.</i> | <i>Oz.</i>     | <i>Pkt.</i> | <i>Oz.</i> |     |
| Coriander .....                      | 05          | .20            | Dill.....   | 05         | .25 |
| Horehound.....                       | 10          | 50             | Sage .....  | 05         | 20  |
| Summer Savory... ..                  | 10          | 30             | Saffron.... | 05         | 25  |
| Sweet Marjoram.. ..                  | 10          | 40             | Lavender .  | 10         | 30  |
| Caraway .....                        | 05          | 15             | Sweet Basil | 10         | 40  |
| Sweet Fennel.....                    | 05          | 20             | Thyme....   | 10         | 50  |

**Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.**



# CABBAGE PLANTS.

A great specialty of our business has for the past fifteen years been the production and sale of Cabbage Plants, and thousands of market gardeners and planters have learned that they can get stockier, healthier and thriftier plants of us than they can grow themselves and cheaper too. We actually sow them *by the acre* and shall this season have "millions for defense." The seeds are sown in beds in the open ground in drills far enough apart so that they have room to grow short, stocky and with an abundance of fine fibrous roots, very unlike those so frequently seen crowded in boxes or raised beds. Plants from our first sowings are ready for setting on June 1st, and from that date we shall have them ready at all times until August.

**Varieties.**—For earliest use we shall have at the beginning of the season a supply of Early Jersey Wakefield and Henderson's Early Summer, but of course there is but little demand for these after June 1st.

*Early Flat Dutch.* This fine variety is gaining rapidly in public estimation and we shall sow largely of it this season. In trials made in the experimental grounds of the *Rural New Yorker*, and also at the New York State Experimental Station last season, we notice this variety is reported to have produced a greater number of perfect heads in proportion to the number of plants set than any other. The heads are large and solid, somewhat resembling the Late Flat Dutch, but two or three weeks earlier in maturing.

*Large French Oxheart.* This is the earliest variety we should advise setting after June 1st. It produces fine cone-shaped heads which grow close and firm and with but few loose leaves.

*Early Bleichfeld Giant.* An early short-stemmed German variety which has become quite popular in some sections. It is good for first early planting, and again for very latest in July after it is too late to risk the standard late varieties.

*Early Winningstadt.* This is an old and popular variety, which produces very hard pointed heads. Like the early varieties above, it may be set 3 by 1½ feet when nearly 10,000 plants may be set on an acre. It is very sure to head, even on poor and sandy soil, and is not injured by the worms so much as the looser heading ones.

*Fottler's Improved Brunswick.* This variety which is by some called Fottler's Early Drumhead, is in season about half way between the Winningstadt and Late Flat Dutch. It produces a large flat white head on a very short stump, and for all purposes is becoming one of the most popular varieties. The demand for it is second only to Late Flat Dutch, and surpasses it in some sections.

*Late Flat Dutch.* This is perhaps better known and more widely cultivated than any other variety. Different strains are known by various names as "Excelsior Flat Dutch," "Premium Flat Dutch," &c. but if seeds are carefully grown from the best selected heads there is but little difference in them. For winter use the plants are set in this latitude from June 20th to July 20th, though we would recommend setting some earlier variety after July 4th.

*Late Am. Drumhead.* This somewhat resembles the Flat Dutch in appearance, is rather lighter in color and preferred by some.

*Marblehead Mammoth.* This is the largest cabbage grown. Very rich land, good cultivation and long season must be given it or it may fail to full develop.

*Drumhead Savoy* is the best of its class. The savoy is the tenderest and best cabbages in cultivation, but the worms are more likely to injure them than any others.

*Red Dutch* and *Red Drumhead* are largely used for pickling raw, and sell at a high price on account of their high color.

*Mixed Varieties.* We shall grow plants from seed of all of the above varieties mixed for family use, same price as for separate kinds.

**Prices.**—One hundred plants by mail post paid 40 cents. Four hundred plants packed in a light basket, by express \$1.00, 1000 plants by express \$2.00, 5000 or over by express at \$1.50 per 1000. The prices include free boxing and delivery to express office here.

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We shall also be able to supply in their respective seasons, a limited quantity of choice plants of Livingston's Perfection Tomatoes at \$2.50 per 100, and Golden Dwarf Celery at \$3.00 per 1000 by express. We selected these as in our opinion the very best varieties known for general use.

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1883.



Seed-Time and Harvest,

JULY.



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MAGAZINE,  
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PUBLISHED BY  
Isaac F. Tillinghast, La Plume, Pa.

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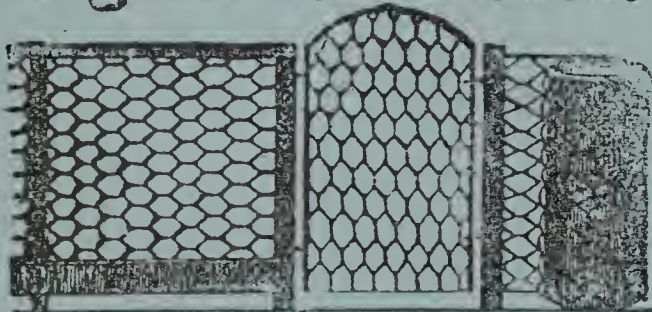
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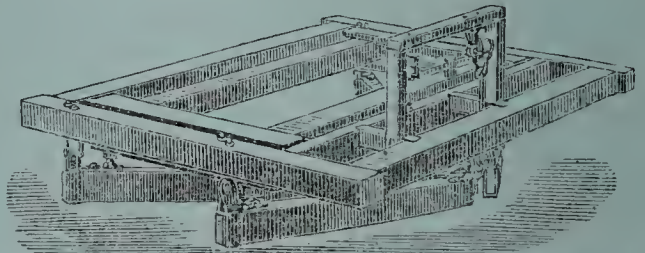
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

—FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.—

VOL. 4,

JULY, 1883.

NO. 7.

## AN OLD LETTER.

I burned the others, one by one; but my courage failed at last,  
And I snatched this, scorched and yellow, where the fire's breath had passed.  
I could not let it lie there, for it turned like a thing in pain;  
And I love it for the old times' sake, that never come again.

They used to call me beautiful; I had nothing else beside.

There was none more great or wise than he in all the world wide;

And it's still a sort of pleasure—very mournful though it be—

To know he once could think such thoughts, and write such words of me.

But my poor beauty faded; 'twas the only thing I had.

I was always weak and foolish, and my whole life grew sad,

For the cruel blighting fever left me pitiful to see (Oh, it's true that beauty's fleeting!), and my Love no more loved me.

I'd have loved him all the more for that, or any grief beside;

But then he was so different. Oh, if I had only died!

And yet, how can I wish him to have suffered in my stead?

I think it would have grieved him then to hear that I was dead.

I have nothing to forgive him; still, he very soon forgot;

Men have much to do and think of that we girls have not.

A man has little thought to spare for his own chosen wife;

Women's minds are very narrow, and a girl's love is her life.

They say I should forget him, but I cannot if I would.

For since my beauty left me I have tried hard to be good;

And his name is always on my lips when I pray to God above—

Oh, surely I may pray for one I can never cease to love!

I was never fit to be his wife, even when my face was fair;

But every one may pray to Heaven; we are all equal there.

And God, in His great mercy, will not pass my prayers by.

I have one thing left to live for—to pray for him till I die.

—*Calvert's Magazine.*

## IN THE LONG RUN.

In the long run fame finds deserving man,  
The lucky wight may prosper for a day,  
But in good time true merit leads the van,  
And vain pretense, unnoticed, goes its way.  
There is no Chance, no Destiny, no Fate,  
But Fortune smiles on those who work and wait  
In the long run.

In the long run all goodly sorrow pays,  
There is no better thing than righteous pain,  
The sleepless nights, the awful thorn-crowned days,  
Bring sure reward to tortured soul and brain.  
Unmeaning joys enervate in the end,  
But sorrow yields a glorious dividend  
In the long run.

In the long run all hidden things are known,  
The eye of truth will penetrate the night,  
And good or ill, thy secret shall be known  
However well 'tis guarded from the light.  
All the unspoken motives of the breast  
Are fathomed by the years and stand confest  
In the long run.

In the long run all love is paid by love,  
Though undervalued by the hearts of earth;  
The great eternal Government above  
Keeps strict account and will redeem its work.  
Give thy love freely; do not count the cost;  
So beautiful a thing was never lost  
In the long run.

—*Ella Wheeler in the Chicago Advance.*



## MONEY OF HER OWN.

BY EMILY HEWITT LELAND.

"If you persist in being so idiotic on this point, I can't help it. But I can help you making a fool of yourself, generally, and I will."

"Anton," fixing her now calm eyes upon him, "we can never agree on this money question—did you know it? And we've got a good many years before us, if we live. Why can't we have some fair and peaceful arrangement?"

"We'd be peaceful enough if you'd only—"

"Anton," she interrupted, "is my work as housekeeper and nurse and seamstress worth anything to you?"

A flashing thought comes to him of what his life would be without this little woman beside him, but he makes no answer—he doesn't see the drift.

"If my work is as valuable as that of Maria, out there in the kitchen, pay me the same amount you pay her. I will agree to dress myself on that sum, and—I shall be satisfied," drawing a long breath.

Mr. Curtis hurls himself away from the table in utter despair.

"Whoever heard of a wife—and a mother—wanting to be paid like a common servant! No, I won't listen to such a proposition! There's something abominable and coarse about it! How can you think of it? What has come over you?"

"It may be coarse and abominable," answers the wife, slowly, "but it doesn't seem half so abominable to me as b——" she knows that the word "begging" will be simply a spark in a powder-keg, so she keeps it back. "Will you pay me two dollars a week, Anton, please?"

"No, I won't!"

"Very well, then! I'll never ask you for money as long as I live!"

"Very well, then; you may go without!" retorts Anton over his shoulder, as he stalks out of the room feeling like the most injured and persecuted of men.

From this time a little bitterness crept over both hearts. Anton felt that his wife hadn't that sweet and clinging dependence on him she ought to have, and Mrs. Nell

could not restrain the conviction that her husband was just a little narrow and unsympathetic. It required a great effort to tell the woman of whom she had engaged work that she had found it impossible to do any more sewing, but she did so—and began to think of other and less obtrusive ways to earn a dollar. If she could only write stories now—like Rose Terry Cooke or Rebecca Harding Davis. She tried one day to weave a bit of romance on paper, and after two hours of hard work reviewed her pages, laughed until the tears came at her clumsy hero and impossible heroine, and flung them into the stove. Story-telling was not her forte.

A few days afterwards she was in town making some purchases for the children. In an elegantly arranged druggist's window she saw a box filled with mosses and evergreens and holding some tiny bouquets. Being a lover of flowers, and having quite a nice little array of plants in her windows at home, she paused to admire them. One little bunch was composed of a single creamy rose-bud, surrounded by English violets and geranium leaves. She stepped inside and inquired the price:

"Thirty cents."

"And do you sell many of them?"

"Oh, yes; these have but just arrived—this and the basket yonder. About the time gentlemen go home to dinner they disappear rapidly."

Mrs. Curtis treated herself to the rosebud and violets and took it and a new thought home with her. Why should she not grow rosebuds and violets?

For days she devoted all her spare moments to the duty of floral catalogues and guides, and gave herself so earnestly to the subject that she dreamed at night of giant rosebuds that nodded to her and talked ridiculous nonsense and of beds of sweet blue violets as large as wheat-fields.

She must have for roses and violets, and also the carnations she decided to add, a pure, moist, sunny atmosphere, free from dust, not too hot through the day, and cool enough at night for refreshing plant-slumber. She must do this for the red spider, and that for the aphid, and the other for the mealy bug, and something else for



the slug. The business was presenting a serious aspect, but all the better for that—she liked a work that made a demand on her active energies. There was the large southeast chamber—not furnished, as yet, and destined for the children's room when they should be a few years older. It had one east and two south windows—the latter so near together that they were almost as good as a bay-window. This room—with an air-tight stove in winter—would be her place for the rosebud business.

Fearing that Anton might sniff danger in the air if she asked his aid and advice in the matter, she resolved to accomplish everything herself, and as secretly as possible. Once the things were established and blooming, she could easily slip into town once a week at least with a box of nosegays, and none but herself and the salesman need be the wiser.

Of course, her first list of rare and desirable roses footed up to an immense sum—they always do—but by re-writing it a dozen times and dropping out with a sigh of regret many a "choicest" and "very best" sort, she got it reduced to reasonable figures and dispatched to a florist.

She put wide shelves in the windows and only pounded her thumb once. They were of rough boards, but when covered with paper they looked nice as well as substantial. An old croquet-set box fitted the east window as if made for it, and in this she would grow her violets.

To her note of inquiry, sent by a neighbor's trusty boy, the florally inclined drug-gist replied as follows: "We will take your bouquets if nicely arranged and made of choice and popular flowers—and pay you a dollar and a half per dozen."

This was encouraging, although the difference between the man's buying and selling prices seemed decidedly large. "Even a dollar and a half a week will be much better than nothing," murmured Mrs. Curtis to herself; and after reading the note twice with a beaming and encouraged smile, she tucked it under a flower-pot and went on pulverizing and sifting and making ready the violet bed in the croquet box.

"There's a man at the gate," announced Anton, when he came in to dinner, "with a

lot of plants, which he says you ordered: and there's \$12 to be paid on them."

"Certainly! I ordered them, and I am prepared to pay the \$12," answered Mrs. Curtis rather loftily. She was very tired, having made a trip to the woods for leaf-mould, besides attending to the butter-making and the cooking of an admirable dinner—the girl being swallowed up in the weekly wash. If she hadn't been very tired and Anton's tone hadn't jarred upon her, she would have answered differently—she afterwards thought.

Anton shrugged his shoulders. "It's getting unsafe to even mention the word 'dollar' to you!"

"You seemed to fear that you would have to pay the \$12. I should think you might be aware by this time that I don't ask such a thing of you," and Mrs. Curtis sailed away to meet her roses.

"This is getting perfectly outrageous," muttered Anton to himself, quite blind to the neatly spread table and the freshly washed and curled children clinging to his legs and clamoring for "a dinner kiss," quite blind to all the little nice touches of comfort and beauty about the room that told of his wife's busy, patient and careful hands. "I wish I'd never married her!" he thought, kissing the children very mechanically and dumping them into their respective chairs.

I suppose the shocking thing that happened that afternoon was by no means the cause of his wish. But he thought of it all the same, with keenest remorse, when he was summoned by the frightened Maria to come to the house "quick as ever you can, Mr. Curtis, for Mrs. Curtis is killed dead!"

And indeed she seemed as if "killed dead," lying at the foot of the stairs among broken flower pots and drooping roses, pale and cold as snows, and some blood lying in a little pool by her head.

"You see I heard a heavy fall like, quite a spell ago, but the children were having their naps all safe, and I never once thought of her falling down stairs—and oh, I shall die myself, just at the sight of her!" and poor Maria seemed about to faint.

"Run—tell Peter to take the black colt and bring Dr. Gray! Then go for Mrs.



Thatcher—be quick!”

Anton lifted his wife and carried her to the lounge. “God has served me right! I’ve been a brute to her—my poor little Nell!”

He brought water and bathed her head and face, and drew off the soft garden gloves and wet the tired, still, little hands with his tears.

When he let the hands down one arm fell in a queer distorted way, and he saw that it was broken. Her heart was beating faintly, and there was a fluttering breath on her lips, but no sign of consciousness answered his agonized words of endearment.

Twelve hours afterwards, in the small hours of the morning, she opened her eyes and gazed in surprise at Anton and the doctor sitting by her bedside and solem-faced Mrs. Thatcher at the foot.

“Is the white rose broken?” she asked anxiously, and as she spoke she tried to lift her bandaged arm and gave it up with a little cry of pain.

Anton was watching the doctor’s face. The doctor’s face was lighting up. “No, Mrs. Curtis, the white rose is not broken: but your head is, and your arm, and you must keep quiet until you are quite mended.”

“It serves me right,” murmured the patient so faintly that no one understood but Anton, who the moment the doctor’s back was turned, bent over her and kissed her forehead and murmured back: “It’s my fault you poor, dear girl!”

During the long hours of her unconsciousness he had in his restless suspense visited the field of her recent labors, and pathetic enough it looked—if her hands were never to take up their work again—the partly arranged plants, the baskets of soil from the woods, the trowel and sprinkler lying where last she used them, and the sweet fragrance of the neglected violets filled all the room.

It seemed still more pathetic when he picked up the slip of paper from the window and read the offer for her bouquets.

One morning in June Anton carried his convalescent wife out into the sitting room

and deposited her in a softly cushioned rocker as carefully as if she were made of egg-shell china. Then he arranged a rest for her feet, and stood somewhat bashfully regarding two folded papers which he had taken from his pocket.

“If you are strong enough to glance over a little business matter or two—” he began hesitatingly.

“Oh, yes. I feel like a giant refreshed! And I’m so glad to be consulted in a business matter—it shows that you think my cracked head isn’t going to make a real ‘idiot’ of me,” and she smiled brightly up into his face.

“It shows that I’m not going to be the idiot I have been, young woman!” and putting the papers in her hands he hastily left the room.

The first paper contained a detailed plan for a conservatory opening from the sitting room which, “if approved,” could be commenced anytime she should choose to set the carpenters at work.

The second paper was an agreement “to pay my wife—the dearest and trustiest partner I could possibly find, who is worth more to me than all else in the world, exactly half the profits of the farm. And in the words of Tiny Tim—‘May God bless us all?’”

Was not this a tonic for our convalescent? She was out on the piazza in half an hour trying to catch a glimpse of her “partner,” and in a week’s time the carpenters were sawing into the sunny side of the sitting room.

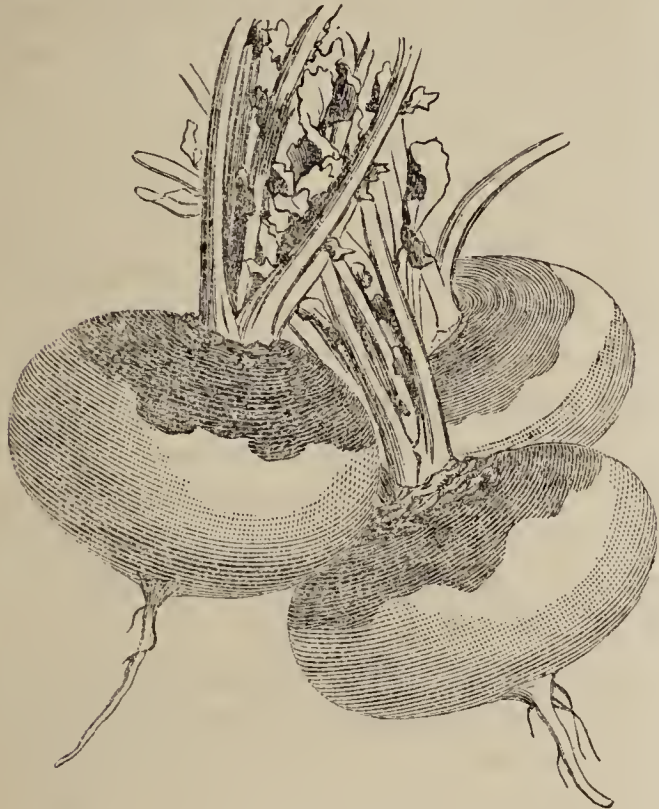
Mrs. Nell was not the woman to abuse her husband’s generosity, and now as the seasons and the years trip by, there is no more prosperous farmer in southern Wisconsin than Anton Curtis, and no happier woman or more cheery homekeeper than his wife, Nell.

### Turnip Culture.

“The twenty-fifth of July, rain or shine,” was the couplet by which a certain old lady could always remember when to sow her turnip seeds. It is a fact that turnips form nicer and moae tender bulbs when sown late than early in the season, and so they

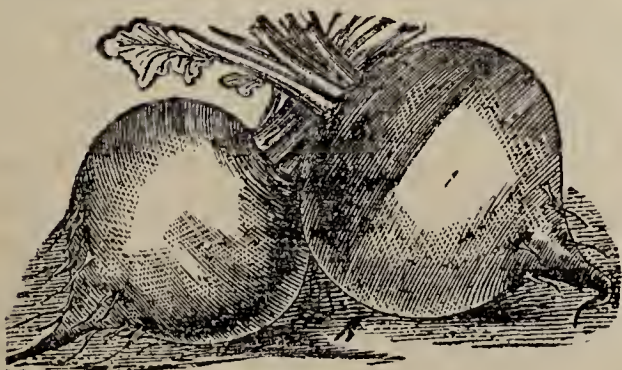


are largely used to fill ground after it is too late to sow other kinds of vegetables. It is not really necessary in this latitude to get them in by the above rule, as the early sorts will develop fine roots if sown upon good soil within a month of the above date.

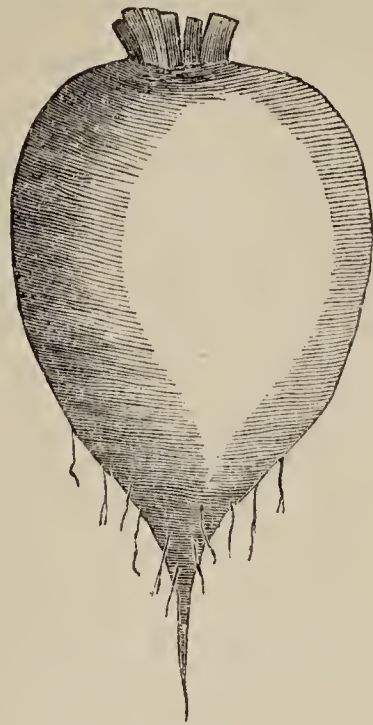


EARLY PURPLE-TOP STRAP-LEAF.

Ground which has been cleared of early potatoes can easily be got into prime order for turnips at a slight expense and be made to produce a paying second crop. Indeed it is doubtful if any crop can be grown which will yield as great a profit upon the labor and cost of production as the turnip crop. The surface should be made fine and rich, as the seeds are small and it is desirable to have them spring up quickly and grow rapidly. One pound of seed per acre is sufficient, so the expense of seeding is hardly worth mentioning. The best variety to use depends upon the kind of land and time of sowing. The White and Yellow Globe are large growing kinds and will require better soil and a longer time for growing than the Purple Top Strap Leaf, White Egg, White



WHITE GLOBE.



NEW WHITE EGG.

Dutch and other extra early kinds which will form good sized bulbs in about eight weeks, and may, in consequence, be sown very late. The best fertilizer for turnips is super-phosphate. Weedy manures should not be used and if the ground is likely to develop many weeds it is best to sow the seeds in drills so that the plants may be hoed, but upon new land broadcast sowing will give good results. They should be gathered before extreme cold weather sets in and stored in the root cellar or in pits. For spring use they are much better stored in pits than in a cellar.

To prevent mould on the top of glasses of jelly lay a lump of paraffine on the top of the hot jelly, letting it melt and spread over it. No brandy paper and no other covering is necessary. If preferred, the paraffine can be melted and poured over when cold.—*Scientific American.*

Mark Twain remarks that all we need, to possess the finest navy in the world, is ships—for we have plenty of water.

A good little boy who was kicked by a mule didn't swear about it. Not he. But he led the mule to a bee hive, backed him close to it and tied him! That mule kicked like lightning for three-quarters of an hour and couldn't stop if he would. Bees are little, but—!

Sam, why am de hogs de most intelligent folks in de world? I 'spects it's cause dey nose eberyting.



## Celery Culture.

BY M. D. DUMBELL.

In my last communication I promised that further on in the season I would give you my experience and also that of some of my neighbors in celery growing. Not that I have anything new to impart about the early stages of its growth, but what I have to say mainly concerns the handling and blanching of the plants. About the 1st and not later than the 10th of April, I prepare a bed in a part of my garden where the sun will shine on it all day, and make the soil very fine, and it should also be very rich. I then sow the celery seed on the surface of the bed, patting it down with the back of a bright spade, then as my soil is heavy and liable to bake I sprinkle the bed over with clear sand, and water profusely with a watering can that throws a fine spray, and if the weather is dry, water every day and sometimes twice a day.

In my opinion most of the failures to raise good celery plants come from the fact that proper attention is not given to watering the seed beds, both before and after the plants make their appearance. Next to good seed watering is of prime importance. It sometimes happens that some of the plants grow faster than others; when such is the case, I shear them off so as to have them uniform. Towards the end of June I prepare the ground where I want the plants to grow and perfect themselves, but never manure it only in the winter or early spring. Where I want the celery to grow I sow dwarf peas four feet apart in the row, and transplant the celery plants between each row of peas; when the peas are taken off the ground the rows of celery stand four feet apart. As soon as I have transplanted the celery, if dry, I water copiously, keeping the soil clean and mellow. About the middle of August some of the plants will be large enough to handle, and here is something I have to tell which I have never yet seen in print. All the essays on celery culture that I have read, say you must in handling them keep the soil out of the heart of the plants, but none of them tell how to do this. Do what I would, in draw-

ing up the earth to one plant the soil would run down into the heart of the next one, especially if the ground was dry; at last I overcame the difficulty in this way: I took the half of a head of a nail keg and made sharp the straight edge, then I commenced at the head of a row of celery; gathered up the leaves and stalks of the first plant into my left hand; then inserted the piece of wood, edge down, between the first and second plant; drew up the soil with my right hand and transferred the plant from left to right and did the same with the left hand. Before I touch the board I gather up the second plant like the first, then move the board between the second and third plants, repeating the operation on the second plant as before, and so on to the end of the row. By this method not a particle of soil gets into the heart of any of the plants.

So far I have never blanched my celery in any other way but by spading the soil up against the plants as high as I could get it to stay.

Now I will give the experience of two of my neighbors in blanching their celery. One of them tells me that in three weeks or so after handling them, he gets boards that are 12 inches wide and 16 or 18 feet long and puts them up on edge on each side of the row of celery, driving down stakes to hold them upright, throwing a little soil against the boards to keep them from being blown down. As the leaves of the celery make their appearance above, he raises the boards a little, and he tells me he never fails to blanch his celery well this way. The other neighbor, last year and for the first time, used drain-tile to blanch his celery; he happened to have the tiles on hand and concluded to try the experiment; he said he succeeded admirably. The tiles are 12 inches long and 4 inches in diameter in the aperture. Instead of handling the plants, this man says, he gathered up each plant and slipped a tile over it, and when he had them all done he threw a little soil against them to keep them in their place. When the leaves of each plant had grown out from the tiles he raised the tiles a little pushing the soil under to hold the tiles up. Now it may be



that neither of these methods would pay market gardeners, but for an amateur that only wants a few hundred plants, with little trouble, either of these plans is good, especially the last.

These drain tiles cost at this place 2½ cents a piece; the first cost is all that's needed, for if properly taken care of, they will last for ever. They can be piled up in any out of the way place, and take up but little more room than so many bricks, when not in use. I intend to try the tile on a small scale this year.

### GREAT-GRANDMOTHER'S GARDEN.

Come into Great-grandmother's garden, my dears;  
The Sunflowers are nodding and beckoning away,  
The balsams are smilingly drying their tears,  
And fair Morning-Glories are greeting the day.

How pure is the breath of the old-fashioned Pinks!  
How modest the face of the Lady's Delight!  
Sweet-William his arm with Miss Lavender's links,  
And whispers, "I dream of you morn, noon, and night."

The Dahlia looks on with a queenly repose,  
Unheeding the Coxcomb's impertinent sighs,  
And fierce Tiger-Lily an angry look throws  
At Bachelor's Button, who praises her eyes.

The red Prince's Feather waves heavy and slow  
By Marigolds rich as the crown of a king;  
The Larkspur the humming-bird sways to and fro;  
Above them the Hollyhocks lazily swing.

Come, Four-o'-Clocks, wake from your long morn-  
ing nap!  
The late China Asters will soon be astir;  
The Sweet Pea has ordered a simple green cap—  
Which the poppy pronounces too common for her.

There's Southernwood, Saffron, and long Striped  
Grass;  
The pale Thimble-Berries, and Sweet-Brier bush;  
An odor of Catnip floats by as we pass—  
Be careful! nor Grandmamma's Chamomile crush.

Come into Great-grandmother's garden, my dears;  
The Sunflowers are nodding and beckoning away—  
Ah! the true Grandma's garden is gone years and  
years—

We have only a make-believe garden to-day.

—*Mary J. Jacques, in St. Nicholas.*

### How to Italianize.

First, procure a good queen from a reliable breeder, and when the queen arrives, if in a movable frame hive, commence on one side of the hive and take out one or two frames and shake off the bees so as to

be sure that the black queen is not on them. Now have a new hive: put the two frames in and set in place of the old hive, and carry the old hive and remaining bees some six or eight rods away, then examine each frame carefully until the black queen is found, then kill her, or make a new colony by giving her about half of the frames, and set it some distance from where it first stood. Queens are mostly sent in a cage one inch thick and two inches square. Take this cage lay it on a frame of brood, near the top bar, and with a sharp knife cut out a piece of comb just as large as the cage and no larger. Now remove the two tacks that hold the tin gate, but do not let the gate slip out of place; slip the cage in the hole cut in the comb with the gate down; be sure the gate is in the right place so it will be impossible for the queen to get out; place the frames in the hives just as they were, and leave it for thirty-six to forty-eight hours; then remove the tin gate, but leave the cage in position, and with a sharp, thin knife give two or three cuts just below the opening, but do not remove any comb; now close the hive and the bees will know their way out; but before closing the hive, be careful to destroy all queen cells. In about five days open the hive and see if all is right, and remove the cage. The above plan is intended for those who have had but little experience at the business, and not for the practical apiarian.—*Maryland Farmer.*

Some housekeepers are so constitutionally wasteful that the more flour they have the more they knead.

It is said "Fortune knocks once at every man's door." In most cases it must have been when the man was out.

A temperance lesson: Henry—"Say, Pa, can you tell me why Murphy's liquor store is like a counterfeit dollar?" Father—"No; I give it up." Harry—"Coz you can't pass it."—*The Judge.*

The man who goes fishing, and sits in a cramp-inviting position on a narrow thwart, from early morn to dewy eve, and calls it "fine," is the same man who never goes to church because the pews are not comfortable.



### Peck's Bad Boy.

"Why don't you take an ice pick and clean the dirt out from under your finger nails," said the groceryman to the bad boy, as he came in the store and stroked the cat the wrong way, as she lay in the sun on the counter, on a quire of manilla paper.

"Can't remove the dirt for thirty days. It is an emblem of mourning. Had a funeral at our house yesterday," and the boy took a pickle out of a tub and put it in the cat's mouth, and shut her teeth together on it, and then went to the show case, while the groceryman, whose back had been turned during the pickle exercise, thought by the way the cat jumped into the dried apple barrel and began to paw and scratch with all four of her feet, and yowl, that she was going to have a fit.

"I hadn't heard about it," said the groceryman, as he took the cat by the neck and tossed her out in the back shed into an old oyster box full of sawdust, with a parting injunction that if she was going to have fits she had better go out where there was plenty of fresh air. "Death is always a sad thing to contemplate. One day we are all full of health, and joy, and cold victuls, and the next we are screwed down in a box, a few words are said over our remains, a few tears are shed, and there is a race to see who shall get back from the cemetery first, and though we may think we are an important factor in the world's progress, and sometimes feel as though it would be unable to put up margins and have to stop the deal, the world goes right along and it must annoy people who die to realize that they don't count for game. The greatest man in the world is only a nine-spot when he is dead, because somebody else takes the tricks the dead man ought to have taken. But, say, who is dead at your house?"

"Our rooster. Take care, don't you hit me with that canvassed ham," said the boy as the groceryman looked mad to learn that there was nobody dead but a rooster, when he had preached such a sermon on the subject. "Yes, how soon are we forgotten when we are gone. Now, you would

have thought that rooster's hen would have remained faithful to him for a week at least. I have watched them all the spring, and I never saw a more perfect picture of devotion than that between the bantam rooster and his hen. They were constantly together, and there was nothing too good for her. He would dig up angle worms and call her, and when she came up on a gallop and saw the great big worm on the ground, she would look so proud of her rooster, and he would straighten up and look as though he was saying to her, 'I'm a daisy, and then she would look at him as if she would like to bite him, and just as she was going to pick up the worm, he would snatch it and swallow it himself, and chuckle and walk around and be full of business, as though wondering why she didn't take the worm after he had dug it for her, and then the hen would look disappointed at first, and then she would look resigned, as much as to say: 'Worms are too rich for my blood anyway, and the poor dear rooster needs them more than I do, because he has to do all the crowing,' and she would go off and find a grasshopper and eat it on the sly for fear he would see her and complain because she didn't divide. O, I have never seen anything that seemed to me so human as the relations between that rooster and hen.

But the exposure told on him, and he went into a decline, and one morning we found him dead. Do you know I never see a hen that seemed to realize a calamity as she did. She looked pale, and her eyes looked red, and she seemed utterly crushed. If the chickens, which were so young they could not realize that they were little orphans, became noisy, and got to pulling and hauling over a worm, and conducted themselves in an unseemly manner, she would talk to them in hen language, with tears in her eyes, and it was a picture of woe. But the next day a neighboring rooster got to looking through the fence from the alley, and trying to flirt with her. At first she was indignant, and seemed to tell him he ought to go about his business, and leave her alone, but the dude kept clucking, and soon the widowed hen edged up toward the fence, and asked him to



come in, but the hole in the fence was too small for him, and then the chickens went out in the alley, and the hen followed them out, so she would have an excuse to go after them, and flirt with the rooster, and I think it is a perfect shame. She is out in the alley half the time, and I could cuff her. It seems to me wrong to so soon forget a deceased rooster, but I suppose a hen can't be any more than human. Say, you don't want to buy a good dead rooster, do you? You could pick it and sell it to somebody that owes you, for a spring chicken."

"No, I don't want any deceased poultry, that died of grief, and you better go home and watch your hen, or you will be bereaved some more," and the grocery man went out in the shed to see if the cat was over its fit, and when he came back the boy was gone, and after a while the grocery man saw a crowd in front of the store and he went out and found the dead rooster lying on the vegetable stand, with a paper pinned on its breast on which was a sign, "This ruster dide of colix. For sale cheep to bording house only." He took the dead rooster and threw it out in the street, and looked up and down the street for the bad boy, and went in and hid a raw hide where he could reach it handy.

### What Kills Fruit Trees.

Deep planting is one error—to plant a tree rather shallower than it formerly stood is really the right way, whilst many plant a tree as they would a post. Roots are of two kinds—the young and tender rootlets, composed entirely of cells, the feeders of the of the trees, always found near the surface getting air and moisture; and roots of over one year old, which serve only as supporters of the tree and conductors of its food. Hence the injury that ensues when the delicate rootlets are so deeply buried in the earth, Placing fresh or green manure in contact with the young roots is another great error. The place to put manure is on the surface, where the elements disintegrate, dissolve and carry it downward. Numerous forms of fungi are generated and reproduced by the application of such manures directly to

the roots, and they immediately attack the tree. It is very well to enrich the soil at transplanting the tree, but the manure, if to be in contact with or very near the roots, should be thoroughly decomposed.—*Ploughman.*

### THE DEVIL.

MEN don't believe in a devil now, as their fathers used to do;  
They've forced the door of the broadest creed to let His Majesty through.  
There isn't a print of his cloven foot or a fiery dart from his bow  
To be found on earth or air to-day for the world has voted so.  
BUT who was it mixing the fatal draught that palsies heart and brain,  
And loads the bier of each passing year with ten hundred thousand slain?  
Who blights the bloom of the land to-day with the fiery breath of hell,  
If the devil isn't and never was? Won't somebody rise and tell?  
Who dogs the steps of the toiling saint and digs the pit for his feet?  
Who sows the tares in the field of time wherever God sows his wheat?  
The Devil is voted not to be, and, of course, the thing is true;  
But who is doing the kind of work the Devil alone should do?  
WE are told he doesn't go about as a roaring lion now;  
But whom shall we hold responsible for the everlasting row  
To be heard in church, in home, and state, to earth's remotest bound,  
If the Devil by a unanimous vote is nowhere to be found?  
WON'T somebody step to the front forthwith, and make their bow, and show  
How the frauds and crimes of a single day spring up?  
We want to know.  
The Devil was fairly voted out, and, of course, the Devil's gone;  
But simple people would like to know who carries his business on? —*Alfred J. Hough.*

Have you noticed our "New Premium" offers? If you have not we think it will pay you to read them and try to get us a few subscribers. We shall make some more offers next month and we know of no easier way to benefit your friends and get good pay for it than by getting them to subscribe for SEED-TIME AND HARVEST. One dollar gets Dr. Dio Lewis's new book, "In a Nut-shell," and two copies of SEED-TIME AND HARVEST for a year.



### THE GOOD OLD WAY.

John Mann had a wife who was kind and true—  
 A wife who loved him well;  
 She cared for the home and their only child;  
 But if I the truth must tell,  
 She fretted and pined because John was poor,  
 And his business was slow to pay;  
 But he only said when she talked of change,  
 We'll stick to the good old way!

She saw her neighbors were growing rich  
 And dwelling in houses grand;  
 That she was living in poverty,  
 With wealth upon every hand;  
 And she urged her husband to speculate,  
 To risk his earnings at play;  
 But he only said, "My dearest wife,  
 We'll stick to the good old way."

For he knew that the money that's quickly got  
 Is the money that's quickly lost;  
 And the money that stays is the money earned  
 At honest endeavor's cost.

So he plodded along in his honest style,  
 And he bettered himself each day,  
 And he only said to his fretful wife,  
 "We'll stick to the good old way."

And at last there came a terrible crash,  
 When beggary, want and shame  
 Came down on the homes of their wealthy friends,  
 While John's remained the same;  
 For he had no debts and he gave no trust,  
 My motto is this, he'd say—  
 It's a charm against panics of every kind,  
 'Tis stick to the "good old way."

And his wife looked round on the little house  
 That was every nail their own,  
 And she asked forgiveness of honest John  
 For the peevish mistrust she had shown  
 But he only said, as her tearful face  
 Upon his shoulder lay:  
 "The good old way is the best way, wife;  
 We'll stick to the good old way."

—*New York Ledger.*

### Cultivating and Marketing Potatoes.

I do not retail my potatoes to any large extent and would not at all except to accommodate. The middlemen are welcome to all they make out of retailing; I much prefer to sell in lots of 100 bushels or more at a reduced price. The man who buys a carload is not usually as particular as the one who only wants a bushel, and while the former pays cash down, the latter very likely "will hand it to you in a day or two." Early in the season, while the skins slip, we sometimes divide a load, setting off 10 or 20 boxes in a place, and if

any one along the road wants a bushel, when we have them in boxes, they always get it, if they have the money ready, as the horses can draw the money easier than they can the potatoes. In the fall we take some orders from families for their winter supply, to be filled at our convenience, and when these orders amount to a load we fill them, delivering the potatoes in bushel boxes, which is but very little more trouble than delivering a whole load in a place, if it were not for collecting the pay.

As for peddling a load from house to house, that is something I never did, neither do I ever go to market with a load that is not sold in advance. With the potatoes at home, the farmer has the advantage. If he goes to market with them unsold, the buyer has the advantage.

Last summer, I saw a man, who had come 15 miles, sell a load to a shipper for 35 cents a bushel. The same day, the same shipper paid me 50 cents a bushel for two loads, simply because my potatoes were at home, and I would not move them for less. Doubtless the man spoken of could have sold his potatoes right at home for 35 cents or more.

May I tell a little joke on Secretary Chamberlain, or, as he is more familiarly called in Ohio, "W. I.?" It is too good to keep, and he is so fond of jokes I do not think he will care. Once, when he was a farmer, he had a load of potatoes to sell, for which he was offered 40 cents a bushel at home, but he decided to go to Cleveland (24 miles) with them. The next time we met, in reply to the question what he got for his potatoes, he said "50 cents," and after a minute's pause he added, without a trace of a smile, "40 cents in money and 10 cents in experience."

The bushel boxes which I have spoken of, and which I wrote you about last year, are very handy to market early potatoes in, and to deliver potatoes in when the load is to be divided and left at two or more places, but these are not all their uses by any means. A farmer who raises but two or three acres of potatoes can hardly afford to do without them, to use on the farm, to say nothing of marketing.

On my farm we handle the crop with



about half the labor we did before we got them. Formerly, while the team was gone to market, the men dug the potatoes and carried them together into a pile, and then to get a load they had to be all picked up by hand again. Now, they are all picked up in boxes, and I can get a load in ten minutes when wanted. If it is likely to rain, an empty box turned bottom up over a full one will protect it. Or two or three full ones may be set one above the other, and an empty one turned over them. If desired, a larger pile may be set up together and covered with a rubber blanket. By picking up four rows at once, a man can fill a box without moving it much. When filled, they can be emptied into the wagons to draw to market (it does not pay to draw them very far to market in the boxes, when they are ripe, on account of the dead weight to be moved each way—40 boxes weighing some 300 pounds), or, if you wish to pit them, set the boxes into the wagon and draw them to the pile and empty them. Do the same way if you wish to put them in the cellar. It saves shoveling and bruising.

These boxes are equally good for handling apples. After one is through using them in the fall, they can be filled with apples or potatoes and put in the cellar: They should hold a bushel level full. The size I use is 13 by 16 inches, by 13¼ inches inside measure. The bottoms and sides may be made of three-eighths stuff, and the ends of five-eighths. The lighter the wood the better. Hand holes should be cut in each end, and the corners bound with galvanized hoop iron. I paid \$30 for 100 last year. They were made at a box factory. We find a great many uses for them in the course of the year.—*T. B. Terry in Country Gentleman.*

### THE LIFE OF MAN.

Man, born of woman, is of few days and no teeth. And, indeed, it would be money in his pocket sometimes if he had less of either. As for his days, he wasteth one-third of them, and as for his teeth, he has convulsions when he cuts them, and as the last one comes through, lo, the dentist is

twisting the first one out, and the last end of that man's jaw is worse than the first, being full of porcelain and a roof-plate built to hold blackberry seeds.

Stone bruises line his pathway to manhood, his father boxes his ears at home, the big boys cuff him in the play ground, and the teacher whips him in the school room. He buyeth Northwestern at 110, when he hath sold short at 96. If he wear sack-cloth and blue jeans, the men say, "He is a tramp," and if he goeth forth shaven and clad in purple and fine linen, all the people cry, "Shoot the dude!"

He carryeth insurance for twenty-five years, until he hath paid thrice over for all his goods, and then he letteth his policy lapse one day, and that same night fire destroyeth his store. He buildeth him a house in Jersey, and his first born is devoured by mosquitoes; he pitcheth his tent in New York, and tramps devour his substance. He moveth to Kansas, and a cyclone carryeth his house away over into Missouri, while a prairie fire and ten million acres of grasshoppers fight for his crop. He settleth himself in Kentucky, and is shot the next day by a gentleman, a Colonel and a statesman, "because, sah, he resembles, sah, a man, sah, he did not like, sah." Verily, there is no rest for the sole of his foot, and if he had it to do over again he would not be born at all, for "the day of death is better than the day of one's birth."—*Robert J. Burdette in Philadelphia Press.*

A Connecticut man says he caught 430 trout in one afternoon. The trout lie.

"Lost—A brindle pup, belonging to Patrick Neil with his ears slit." Fact.

An old bachelor down east wants to adopt a girl baby, eighteen years old.

The man who 'went back' on his principles has since travelled by another route.

Misers are like patent leather boots; the longer they last the tighter they become.

The great number of divorces indicate that people put too much brimstone in their matches.

The bank where the wild thyme grows has declared a dividend of ten "scents," to the share.



### THE LONG ROD-POLE.

A FEW miles from my father's old farm, wrote Mr. C. P. Kimball, of Portland, several years ago, there lived two well-to-do farmers, whom we will call John and Calvin. They were related by way of marriage, and were once great friends, but at the time my story commences they were most inveterate enemies. Their farms lay side by side on the country road, some few miles from the Androscoggin river.

For many years they cut their hay in silence, each one mowing down to the dividing line with the precision of a master mechanic. Each owned a hundred rods, and through a part of the meadow ran a brook, which, like most meadow brooks, was very crooked.

John thought it would be an excellent plan to ditch his hundred rods, making the brook straight, and thereby saving much land and making his field more convenient and productive. So he contracted with a man named Redman to dig one hundred rods of ditch at one dollar per rod, beginning at the upper line of his farm and following down the stream to Calvin's line. Redman came, and with his two grown-up boys he went merrily to work; and John made him a rod-pole for the occasion; but being of a treacherous disposition, he made the measure a dozen inches longer than usual, that he might get a good return. In this he did not fail.

Redman worked dilligently for some days. Calvin was interested in the operation, and carefully watched the proceedings, often asking Redman how many rods he had accomplished, and always getting an honest reply. One day, as he leaned upon his scythe, he called:

"I say, Redman, how many rods have you got along?"

"Eighty."

"Eighty! well you're getting along fast."

Calvin saw at once he was too near his line for eighty rods, and musing upon the circumstance, he decided there must be a mistake. Knowing John so well, he began to suspect, as he considered the subject further, that John might be trying to de-

fraud Redman; so dropping his scythe and crossing the line he sat down near the rod pole, and took off his hat to cool and rest himself.

While so sitting he took occasion to measure the pole which John had made, and to his delight he found it was just one foot too long. Now here was fun for Calvin. Here was a chance to plague his enemy. Did he go tell Redman? No, not he. He laughed quietly in his sleeve, and waited quietly for Redman to finish his work. This was soon done, and the honest digger presented to John his bill for one hundred dollars, received his money, and went on his way. Very soon after this was accomplished, Calvin discovered, to his great surprise and indignation, of course, that some one had been trespassing on his meadow by digging a ditch about *one hundred feet long*, near the line which separated his land from John's. Sending to John he demanded if that ditch was dug by his authority. John, not suspecting any trouble, replied that it was. Receiving this answer, Calvin at once started for town and laid his case before the village lawyer, who at once saw that John had committed a great wrong, known to the law as *wilfully trespassing upon the land of a neighbor*. A writ was accordingly made out and the deputy sheriff of the county, so much dreaded in those times, soon made his appearance before John, attached his property for the damage done to Calvin's land, and summoned him to appear and show cause. John was astounded. He visited the field, and saw at a glance that the ditch was far over the line, and now for the first time the awful thought flashed upon him that in making his rod-pole one foot too long he had actually dug one hundred feet into Calvin's land. He stood aghast, and then hastened to find the rod-pole that he might destroy the proof of his guilt, but it was not to be found. He could not understand where it had gone, but when he appeared in court, there that ghost of a rod-pole met his astonished view. How it came there none but Calvin knew, and he was silent. The case was soon tried, and a verdict of guilty was rendered, with nominal damage and costs of court.



This, with the advantage of his enemy, and the withering rebuke of the lawyers, was a terrible retribution for poor John. But more was yet in store. Redman saw by the evidence in court that he had been cheated out of one hundred feet of ditch actually dug, so he commenced suit against John. Again came the sheriff; again he went to court, and again he received the cold cuts of the attorneys and the sneers of the people, with the verdict of guilty, and the order of full pay to Redman and costs of court.

And yet more was in store for him. The Long Rod-Pole was still kept for another use, the worst of all, for now the church, of which John had long been, to all outward appearances, an exemplary member, took the case in hand and expelled him from their communion and fellowship.

Thus did the biter get bit. Thus swiftly did the retributive justice of God overtake the poor cheat who secretly tried to rob a poor honest man of the fruit of his toil. The wretched John never heard the last of the Long Rod-Pole.—*Am. Rural Home.*

#### NOTES AND GLEANINGS.

JUNE and July are the months in which grape vines are layered. Take a cane of last year's growth, bend it to the ground and cut a half slit across it where the bend is made. Then cover all the new shoots two or three inches deep with fine earth—sand is best. The two lower leaves of the shoots may be removed and the bark slit in the cane opposite them. In the Fall you will have as many finely-rooted plants as there are new shoots on the cane, and the whole should then be removed from the parent vine. This is probably the easiest way for amateurs to grow strong vines for their own use or for their friends, but it exhausts the vine to continue the practice year after year.

IF FEARS are entertained of disagreeable odors in the milk from cabbage or turnip leaves, "give the cow about a teaspoonful of saltpetre once a day, pulverized and put in her grain; if it is already in the milk dissolve the saltpetre in water, and put about a teaspoonful of the solution to a gallon of milk, and it will remedy it at once," so says an experienced dairyman. He also says that "it drives off good flavors as well as bad ones, and that butter made from milk so treated

will be as flavorless as Winter butter made from fresh meadow hay, but as it does not destroy the color, people will not find fault with such butter unless they are accustomed to something very nice. Even then they will prefer it to that which has a taste of turnips, cabbages, carrots, or bitter weeds of any kind.

IF a farmer who had but one animal that was useful to him, should allow a dozen others that were of no use to him, and that would only be a greater nuisance as they grow older, to feed from the same crib, one would say he was not wise. Is he any wiser who allows a dozen weeds to grow and fatten upon the fertility of his soil, for each useful plant that he grows? Keep the hoe moving now, and do not allow the plants to be robbed of both food and drink by worthless weeds. Remember that more of them can be destroyed in one day while they are small, than in ten after they have got well rooted and cover the ground. Remember that the horse hoe can be put through the field five times as easily as the hand hoe would do the work once, therefore farmers can afford to run it frequently. Use it as often as time will permit, whether the field looks as if were needed or not, and use the hand hoe when the field needs it, or rather a few days before that time. It goes easier then.

AT THIS SEASON extra care should be taken that the horses should have no more grain than they can eat up clean. If any is left in the manger it should be taken out at once and thrown away. If the manger becomes so foul as to emit a sour smell from any cause, it should be carefully cleansed and washed with a solution of soda or potash until perfectly sweet again. The eating of grain that has soured in the manger or feed box is a frequent cause of colic in horses, and those which are well fed, but do not always have time to eat the rations given them, are the most liable to it. If colic occurs from any undigested food one of the best remedies will be found in taking a few lumps of charcoal, pulverizing it, and turning about two quarts of boiling water over it. When lukewarm strain off and turn down the throat of the horse from a bottle. Another remedy having similar effect is one heaping tablespoonful of saleratus dissolved in a pint of milk or warm water, to which add a half-teaspoonful of cayenne pepper and administer at once. If colic is caused by taking cold or by drinking too freely of cold water when heated, give two tablespoonfuls of ginger and a teacupful of molasses in two quarts of warm water. This is a dose for a full-grown horse, and while usually effective it is not liable to do any injury, even if the amount given is much greater than above named.



### Country Life.

It is a significant fact that many of the greatest lights of the literary world have resided in the country. It is a universally admitted fact, by those competent to judge, that a residence away from the centers of commercial activity, in other words, a suburban residence, is most conducive to physical health. So, it would seem, is it to the mental health and activity of man. Continuity of thought, in the first place, is very essential to literary progress. If a man desires to accomplish a certain problem in physical life, it will require a certain time, according to the rapidity with which he is capable of performing mental labor. If a man starts out to walk a given distance, it will require a certain time, according to the ability he possesses for walking. If, now, in either pursuit interruptions occur, the accomplishment of the proposed task will be delayed, just in proportion to the number and duration of these interruptions. In the ever-changing panorama of city life, in the almost inevitable and numerous demands upon the time of a resident of a large city, from one source or another, the absence of such interruptions is well nigh impossible. In the second place, communing with nature and all its wonderful works, certainly does have a refining, elevating and purifying influence on the thought that may have been suggested by more worldly surroundings. The country air of Gad's Hill enabled Dickens to perpetuate his wonderful pictures of metropolitan life. The pure air of small New England villages has enabled our great American poets to sing the songs of beauty that will make their names forever revered; while it was stated at a recent meeting of the British Medical Association that some of the greatest elements of progress in the medical profession had been contributed by country doctors; indeed, the very founder of that time-honored Association was himself a country doctor.—*Ex.*

### Modern Accomplishments.

In the city of New York the people appear to be returning to first principles, and now

instead of learning to play the piano in the public schools, the girls want to learn to sew. *The Judge*, the great American comic paper of the country, is at the head of the movement and has set the ball a rolling with a poem not quite as pathetic as Hood's "Song of the Shirt," but almost as true to life as that great ballad. We take pleasure in quoting a specimen stanza of this reform-inspiring ditty:

She can buy a fancy bonnet, and she knows the use  
of dye;  
She can sing in seven languages at sight;  
She can talk æsthetic chatter and the art that's  
known as "high."  
She can do a ball or concert every night;  
She can paint on silk and velvet, and knows Swin-  
burn's works by heart;  
She can angle, she can snub and she can flirt;  
But she can't put down a carpet, and she cannot  
make a tart,  
And she cannot sew a button on a shirt.

In order to make the accomplishments of the new York girl complete, sewing is about to be introduced into the public schools, when needles and grammar, spools and syntax, yarn and history will jostle each other all day long, while the "sweet girl graduate" will study out the problem of putting a patch on her big brother's pants at the same time that she lays the foundation for her essay on the "Hereness of the Heretofore,"—*Joaquin Miller in Scranton Republican.*

### SQUASHES.

Good, palatable squashes, as prepared in any of their many styles of cooking, make a very acceptable dish, several kinds nearly equaling the sweet potato in richness and flavor.

We have had good success in raising the squash. Planting in a rich, moist loam, with a little careful tillage, generally brings an abundant crop.

Although some cannot keep them for any length of time, we never have any difficulty. Take them off the vine when ripe and store them in a dry place until cold weather sets in when those you wish to keep should be taken and put where they will not freeze, (the second story of a building is the best,) being careful not to have them too warm or bruise them while handling. We have now two squashes as sound as when first ripened, the one two years and the other one year old.—*J. W. V., Milton, Pa., June, '83.*





### Lewis's Combination Force Pump.

This Combination Force Pump introduced by Mr. P. C. Lewis of Catskill, N. Y., is one of the most useful, and when once put in service, one of the most indispensable implements to which the attention of progressive agriculturists has been called for a long time. The pump is exactly what is claimed for it, a "combination" of a most thorough and staple order, being a Force Pump capable of throwing a good stream of water 40 to 60 feet, very convenient and serviceable for washing wagons, windows, &c., and almost indispensable in case of sudden fires, many thousands of dollars' worth of property having been saved by their timely use. It also has the best spray attachment for spraying fruit trees, known. It makes a very fine spray or mist and will thoroughly spray a tree or shrub with the least quantity possible of whatever mixture is used. Thousands are being sold for this purpose alone. It also makes an agricultural syringe or Potato bug exterminator. This attachment is fitted with the "Lewis Patent Expansion Valve" which holds the liquid securely in the tube without waste. A light tap on the handle discharges the liquid in thousands of fluid drops upon the potato vine. There is no waste. One pint of London Purple or Paris Green and water will do twenty-five to forty hills. One person can go over four to six acres per day.

Still another attachment is a Veterinary syringe nozzle, which in the country might save many a valuable animal.

The three principal implements made by this combination are shown by the above cut. Mr. Lewis is shipping to every state and territory in the Union, besides having many orders from Canada, England and New Zealand. Parties troubled with insect pests should send to Mr. Lewis for his Illustrated catalogue giving the experience of a large number of leading agriculturists who are using them. The price of the combination complete is only \$6.00 and is made almost entirely of brass. Any further information can be had by addressing the proprietor, P. C. Lewis, Catskill, N. Y.

### SLANDER.

'Twas but a breath—

And yet, the fair good name was wilted,  
And friends, once fond, grew cold and stilted,  
And life was worse than death.

One venom'd word

That struck its coward, poisoned blow,  
In craven whispers hushed and low—  
And yet the wide world heard.

'Twas but one whisper, one,

That muttered low for very shame,  
The thing, the slanderer dare not name—  
And yet its work was done.—*Selected.*

Three people can keep a secret when two of them are dead.

Nature has given us two ears, and but one tongue, in order that we may repeat but one-half of what we hear.

A disappointed young man says he wishes he was a rumor, because a rumor soon gains currency, which he has never been able to do.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

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VOL. IV., NO. VII.

WHOLE NO., XXI.

LA PLUME, LACKAWANNA CO., PA.,

JULY, 1883.

"Over and over again  
The brook through the meadow flows;  
All over and over again  
The ponderous mill wheel goes;  
Once doing will not suffice,  
Though doing be not in vain;  
And a blessing failing us once or twice,  
May come if we try again"

WE ARE NOT SENDING SEED-TIME AND HARVEST to any one with the intention of following it with a bill for subscription. If you receive it that is proof that we judge you entitled to it. Next month we will designate by figures opposite your name on the wrapper, the time at which your subscription ends according to our books. If you find written "12-83", your time is out with the next December number. If "1-84", it closes with the January number, and so on, "2-84" for next February. "3-84" for March, etc., the first figure showing the month, and the second the year with which our visits will cease. We hope all will make a note of this and renew without missing any numbers.

TO INTEREST AND INSTRUCT, as well as to furnish employment, amusement and pleasure for the boys and girls is a leading aim of SEED-TIME AND HARVEST. When we were a boy, which, by the way, was not very long ago, we eagerly awaited the monthly arrival of Grace Greenwood's *Little Pilgrim*, and later *Our Young Folks* and other juvenile publications, and no part of them furnished more real recreation than the puzzle department. We have not yet entirely out-grown our taste for these pastimes, but, of course, do not get as much time to devote to them now. We, however, take pleasure in an-

nouncing that we have arranged with Mr. Frank S. Finn of Manchester, N. H., to conduct a Puzzle Department which, we trust, will be appreciated by all our young friends. Mr. Finn has, for the past twenty years, been contributing poems, sketches, essays, serials, dialogues, puzzles, etc., to the press of various cities and will no doubt make his department interesting and instructive.

Boldly sings the young heart, but scorchingly shines  
the sun;

'Tis the summer now, 'tis mid-day heat, the work-  
life is begun:

But hope runs high, while the steadfast eye,  
Fixed on the goal of fame,  
Heeds not the glare, for he who will dare,  
Must win a name.

SUBSCRIPTIONS are always in order, Are we not making this magazine worth to you much more than it has cost you? Then why not show it to your neighbors, and by inducing them to subscribe, benefit them and us, and thus indirectly benefit yourself?

### What to do when Goods are not as you ordered or expected.

The following, which we clip from Mr. Root's "*Gleanings in Bee Culture*," hits the nail so squarely on the head that we copy it for the benefit of our patrons who may imagine that we penned it for their especial benefit:

As most of my life has been spent in buying as well as selling goods, and as I believe I am generally considered a desirable customer, I think perhaps a few words from me here may be helpful. When you order, make your order plain; and when you order from a catalogue, copy the name of the article from the catalogue, in the *very words* used by the catalogue, and give price. Be especially careful to give the price, as the price often gives the clew to what is wanted, when the writing is so bad or so brief that it could not be guessed at otherwise. If you use the same terms the maker of the goods uses, any mistake made must surely be his fault. Well, after you get your goods, if they are not satisfactory, write at once to the shipper, and tell plainly what the trouble is, also stating just how much rebate you think you ought to have, to make it all fair. If he is a fair man, and you yourself are a fair man, the matter can usually be closed up at once; whereas, if you make a long story of it, without stating definitely what is wanted, he may conclude your custom is more bother than profit, and pay no attention to it. Large business houses, as a rule, do not often write



long letters. Many times, when time is valuable, it is cheaper to hand over 25 or 50 cents, or even a dollar, than to go through with a long list of particulars. May I say, in closing, that it always pays best in the end to help the man you buy of, out of any mistake or misfortune, the best you can? I have a great many times kept goods sent me by mistake, rather than to put to trouble and expense the one who sent them, and I have never found a case where a man forgot such a kindness. Sooner or later I had my reward. The man you trade with is your neighbor, and you are ever bound to love him, and to look out for his interests, as well as your own. It may gratify your feelings a little to talk back harshly to him, when he has made a blunder, and to put him to needless expense, when you are provoked; but it never brings lasting happiness, nor puts money in your pocket.

—♦—

But when the summer's thunder crashes,  
And the fiery lightning flashes,  
And the wild wave fiercely dashes  
On the rock-bound coast,  
Then I long again for autumn,  
Autumn with its burdened sheaves,  
Autumn with its golden foliage,  
And the falling of the leaves.

—♦—

### MONEY IN ONIONS.

—♦—

As we we predicted last spring this outlook for unusual profit in the onion crop grows brighter. The heavy crops of last season put prices below the actual cost of growing, and in consequence, there has this season been a far less acreage planted than usual. This, together with the excessive wet weather through the present summer, which has in thousands of instances precluded the possibility of properly cultivating them, will make a scarcity of onions and higher prices in consequence for some time to come.

In anticipation of an enlivened interest in Onion Culture, we particularly request notes from our readers in different sections of the Union in regard to their practice in sowing onion seeds. The most common practice here at the North, is to sow the black seeds as early in spring as possible, in nicely prepared beds where the crop is to mature in August or September of the same year. Some sow the seeds very thickly, 30 to 50 pounds per acre and harvest them as soon as large enough for setts, which are kept over winter in a cool, dry place and planted out again in spring, thus coming to maturity in advance of crops

from the seed. For this purpose the seeds should also be sown very early in spring in order that the setts may be pulled and cured during the dry weather of mid-summer. Another plan is to sow a bed thickly for setts in August or September and at the approach of winter give a slight covering of straw to keep them from freezing out. Then in spring take up and transplant these green setts into a properly prepared bed. Still another plan which is practiced extensively in some sections, is to prepare the beds and sow the seeds early in autumn where the crop is to grow, just as would be done in spring. A slight covering will protect the plants during the winter in most sections, but just how far north this may be successfully practiced, or how far south it is practiced, is what we wish to ascertain through reports from our readers. Any notes upon the subject will be thankfully received. Let's have an "onion club" next month. Please give us the comparative amount and condition of the present onion crop in your vicinity, with probable yield per acre and price; also any notes you may deem interesting concerning your manner of sowing, etc., and we will group these reports together and make an interesting article.

If our readers would respond to a call like this and send short reports at a certain date, say about the first of the month, upon some previously announced subject, we might have a highly interesting Gardeners' Club every month, and if there is any subject which you would like ventilated please mention it. We will thus be enabled to take up those upon which there is the most interest manifested.

—♦—

CELERY AND TURNIPS are about the only crops which still have ample time to mature if planted in this latitude. We would call attention to our prices of Turnip seeds on page 32, new crop being now ready. We can also still supply very fine plants of Golden Dwarf Celery at \$3 per 1000 by express. We shall not be able to supply any more Cabbage plants this season, the extremely wet weather having ruined our later sowings.



## SWINDLING BY MAIL.

Perhaps few of our honest hearted friends realize the baseness and trickery which is frequently practiced upon those who deal with a miscellaneous Public. We believe that as a whole our patrons are as honest and conscientious a class or set of men and women as was ever grouped together by real or imaginary bonds, still are sorry to say, we have to be on our guard or will occasionally get deceived.

One of the meanest forms of swindling, with which we have to contend, is for a party to falsely claim to have sent money, and then ask and expect us to fill the order without remuneration. Of course anyone who would do this would deliberately steal the goods if they could get into the store, but they perhaps think they would be more liable to get caught at that, as circumstantial evidence is all that can be brought to bear in the first mentioned plan of stealing. But circumstantial evidence is sometimes pretty strong, as in the following cases: One of the most industrious and untiring workers we know at this kind of business is a party who operates under various names at

## BIG CREEK, GEORGIA

and vicinity. He succeeded in successfully working upon our credulity and benevolence and getting several orders filled, without money and without price, before we suspected the true inwardness of the little game. We had however concluded that we did not care for more of the patronage of Ross A. Bagley of Big Creek, Georgia, and refused to refill orders for him before we happened to run across the following in an old issue of the *American Agriculturist*, (July, 1874):

## SWINDLING BY MAIL.

"The mail trade of seedsmen, florists, and the like is now very large, and though from the nature of the case there is more or less delay and loss, yet it is on the whole a great convenience to dealers, and a great saving to purchasers. Among its disadvantages to the dealers is the fact that it allows of a considerable amount of small swindling, and there has grown up a set of knaves who systematically swindle them. Their mode of operation is generally to send an order, stating that the money is inclosed. The dealer finds no money, but the writer claims that he sent it, and it must have been lost, that he can ill

afford to lose the sum, and appeals to the sympathy of the dealer, who, rather than have his customer suffer, usually sends the goods. These cases have happened so frequently, that the dealers have compared notes, and discover that the same parties play the same trick upon the prominent seed and plant dealers all over the country. The following, from a highly respectable seed firm in Rochester, gives an account of the operations of one of these correspondents, which will serve as a sample of the rest:

"Our first experience with this class of 'unfortunates' was with a party who has bemoaned his misfortunes in losses of money by mail for several years, with the greatest steadiness and persistence, and is not yet disheartened; he has repeatedly been rewarded for his style, which is 'child-like and bland,' by confiding seedsmen and is not yet satisfied—Mr. Ross A. Bagley, of Big Creek, Forsyth Co., Ga. His first letters to us claimed a loss of \$10.80, which, being a man far removed from money-order offices, and unused to mercantile pursuits, he had sent us in all confidence; this also contained a proposition that we share his loss, as he was not able to bear it. We supplied promptly the full amount we authorize to be sent by mail at our risk, without registration, suggesting that his letter might have been registered at the post-office, and we could do no more. Again he pleaded, and again was refused; he closed the correspondence with an appeal, from which we quote: 'Send the chromo any way, if you sympathize with a poor man, who wished and tried hard to be a customer. I should have remailed you the money at the start, if I could have done so, but it is my misfortune to possess but few of this world's goods, therefore I could not possibly afford it . . . . It is not my intention to ask for more than is right. I do not think the fault lies with you, and if you can not send the chromos willingly, we will drop the subject.'" Our suspicion was increased by the studied air of modesty and confidence expressed in this note, and a gentlemen connected with our house remembered the name as one who figured in a transaction where a neighbor of ours in the same trade had suffered considerably from an attack of Bagleyism. We found Mr. Jas. Vick possessing a file of papers in the familiar chirography of Bagley, and that he had an experience similar to our own. Seeking further to know the probable extent of the business as done by this particular individual, we requested information from other houses in the same line, and the responses came promptly, and of similar tenor. Mr. Ross A. Bagley, say Messrs. B. K. Bliss & Sons, 'has favored us with his patronage,' and proceed to give in detail a repetition of the familiar story of a loss by mail and a request for remuneration. Peter Henderson & Co., say that 'in 1873 that accomplished rural rascal, Bagley, of Big Creek,' had found them out, and bitten them, but not deeply, for which they are duly thankful. Jas. J. H. Gregory has a matter of a few dollars, for furnishing Bagley with seeds the last fall and present month. We also learn from Reisig & Hexamer that he attempted to victimize them. It seemed to us that such frequency of misfortune should not be permitted to remain in ob-



scurity, or a success achieved by such effrontery and low cunning to be allowed to continue, and we present this case as one fit for exposure by the *Agriculturist*, to which other specimens of this new pest may be added by ourselves and other dealers. We do this as a protection to the trade, by giving timely notice to those who might otherwise suffer, and also warn any who might hope to escape detection in the 'ways that are dark and tricks that are mean,' by the pitiful littleness of the act."

CHASE BROTHERS & WOODWARD.

"Rochester, N. Y."

"Our attention has been called to the article in the *Agriculturist* for July, entitled "Swindling by Mail," as being specially interesting to seedsmen in general, and soft-hearted ones in particular; we perused it, as it seemed to carry the conviction that we too had been victimized. Examining our books we find that in April last year, the Big Creek fraud had free seeds for the season. Upon further investigation we find that last February we were favored with four pages of poverty from the pen of a female Bagley, a Mrs. M. C. Bagley, of Big Creek. A letter containing an order for seeds amounting to \$10.95, and enclosing cash for same had been lost, so the story opens. We took the course usually taken by other seedsmen, offering to fill the order upon receipt of half the amount said to be lost. This offer was followed by many thanks, and a eulogy on departed finances, with the proposition that it would be more satisfactory to share the loss by sending half the seeds without further remittance. We failed to appreciate that logic, but filled the order out of charity, little suspecting that such a combination of 'soft sawder' and rural simplicity, was but a veneer for rustic rascality. We are of the opinion that Bagleyism blooms in Western, as well as Southern sections of the country, for there are other names familiar to us of persons who periodically suffer the loss of money which was never sent."

WASHBURN & Co., Boston, Mass.

It would be supposed that after such an exposure as this a person would cease to try that game any longer, but remembering his success with us, we were soon again favored with another of those generous orders which we quote:

Big Creek, Ga., April 5, 1883.

Isaac F. Tillinghast: Sir, I forwarded you \$2.00 for the following Potatoes on or about the 1st of March, 1883; \*\*\*\*\*I am very sorry to say that I have never received the Potatoes. Please look the matter up as they should have been planted ere this. If you have forwarded them, they have gone astray in the mails, I will suggest that you send another. Should I receive two parcels, I will remit you for the extra parcel. Yours Respectfully, W. W. LANDERS.

To this we replied as follows:

La Plume, Pa., April 9, 1883.

Dear Sir: Your letter of 5th inst. at hand. We have not received the order you speak of or the money. If you were in almost any other place but "Big Creek, Ga.," we would send the potatoes right along

as you suggest, but there are parties in your place who have practiced writing just such letters as the one before us, *when they know they have never sent a penny*, but take that way to get orders re-filled or filled for nothing. I have no other reason to suspect that you did not send the money as you say, but if you are honest in the matter, it is unfortunate for you that you live in Big Creek, Ga., for I think that name is indelibly fixed in the mind of every seedsmen in the country as a home for dead beats.

Very Respectfully, ISAAC F. TILLINGHAST.

To this we received the following reply well calculated to cause us to repent, and under the fears of wronging a customer, still send the goods:

Big Creek, Ga., April 20, 1883.

I. F. Tillinghast: Dear Sir, your very strange and peculiar letter herewith received. Replying, would say I am at a loss to understand you. The lead you make on Big Creek Post Office, I think perfectly unfair. There is but a few men in the vicinity that handle seeds, and so far as I know, they are all honorable, high-toned, fair dealing gentlemen. Then again, Big Creek is nothing but a country post-office, no town or borough about it that is any nearer than six miles. So if you do not want to send me the potatoes, because I live in Big Creek vicinity, of course you can just let it alone! I live in a free country, and what I cannot get, I will try and let alone! Yef I like to receive anything that I pay for, especially when I comply with the printed terms of business houses, who I supposed to be honest and upright. This is my first experience with you, and if you think it a crime to live in the vicinity of Big Creek, and make a polite inquiry about, as I suppose a delayed order, it will be my last. Can send you reference if you like, and think there is any one suitable in the community. Respectfully, W. W. LANDERS.

Now we will leave it with our readers to say if "Big Creek, Ga." does not want watching. We think if we were deputized to act as special agent of the Post Office Department we could easily work up a case of swindling by mail, and if any of our readers actually have sent us money which we did not receive, they will, we trust, no longer think hard of us that we refused to forward the goods until one-half the amount claimed to have been lost was received.

## TO ADVERTISERS.

We frequently send free copies of SEED-TIME AND HARVEST to a few of the most prominent business men in different sections whom we think it would pay as an advertising medium should they be persuaded to give it a trial. We do not wish



to bore any one to death or become obtrusive, but merely to be kept in mind when their lists of "best mediums" is being made up. So of course we felt a little grieved the other morning on opening our mail to turn up a card and read the following:

\* \* \* \* \* Ill., June 11, 1883.

Dear Sir: Will you have the kindness to stop sending us "SEED-TIME AND HARVEST." We requested our Post Master to stop the first number of it and have handed it to him every month since. If our trade was with all classes we would advertise with you. Respectfully,

F. P. HAMMOND.  
Manufacturer of Rubber Stamps.

Everything in life is said to be regulated by some kind of a balance wheel and our readers may judge that we felt at least 20 per cent better after reading the very next communication to which we came in that morning's mail, for it read as follows:

Susquehanna, Pa., June 12, 1883.

Dear Sir: Have you Rubber Stamps and Ink Pads for stamping Bill Heads, Letters, &c? I want one which will stamp my name and address. If you can furnish the same please let me know and the price.

Respectfully, G. M. & J. R. DOOLITTLE.

Of course we immediately enclosed this card in our reply to the first, which was worded as follows:

La Plume, Pa., June 14, 1883.

Gentlemen: In reply to your card would say that as we are sending you SEED-TIME AND HARVEST entirely without charge—even for postage—we did not suppose it would be objectionable, but will discontinue it if it is so. We beg, however, to say that we think you are mistaken in your inference that our class of people are not interested in your goods. We enclose the very next card which we came to in the same mail which brought yours. Now please sell this man a stamp and credit the profit against your charge of trouble on account of receiving SEED-TIME AND HARVEST. Very respectfully, I. F. TILLINGHAST.

And now we wish to say that if any other manufacturer in whose hands a copy occasionally falls, is foolish enough to suppose that our people are not a suitable class to purchase his goods, we would be pleased to offer him extra inducements to give us a trial that he may be convinced of the fact that our wants are legion.

#### AMONG OUR EXCHANGES.

THE AMERICAN RURAL HOME of Rochester, N. Y., is one of our best and cheapest weekly exchanges. How it can be published for the low price of \$1.00 a year is the wonder of everybody. Its editor spends

a considerable time each month among the farmers, and the practical notes he makes of his observations as to how they do things, given in a clear and intelligible manner, makes the RURAL HOME worth its subscription price for these articles alone.

THE AMERICAN CULTIVATOR is one of the oldest and most substantial of farmers' papers. Every department of agriculture is represented in its columns, and the value of its teachings may be estimated from the number of its subscribers and the character of its correspondents, the former of which amount to upwards of 30,000, and the latter comprise some of the ablest writers in the land. The venerable Major Ben. Perley Poore contributes Farm Talks and Anecdotes of prominent public men, both of which are very entertaining reading and highly enjoyed by all. Published at Boston at \$2 a year.

Of the making of children's books and papers there seems to be no end, and among them all the YOUTH'S COMPANION of Boston stands unexcelled as a weekly. Its masterly stories, vivacious and sparkling sketches, quaint anecdotes and sensible editorials please both old and young, and in faultless workmanship it is a model. We can heartily recommend it as a desirable "Companion" for any boy or girl.

THE MARYLAND FARMER is one of our prized monthlies. The last issue contains an elegant steel plate portrait of Mr Ezra Whitman, its venerable founder, and a short sketch of his business career. Published at Baltimore at \$1.25 a year.

THE COUNTY GENTLEMAN published at Albany, N. Y., holds a high place in the estimation of its subscribers and very few of them care to miss a number. Full of practical experience, its pages are sought for and consulted as a repository of wisdom by the best farmers of the land. Weekly, \$2.50 per year.

THE BEE-KEEPER'S EXCHANGE has lately changed hands, being now published by Colgrove & Ullery. The last number is an excellent one and gives proof of the ability of its new proprietors to make it a first class magazine for the progressive bee-keeper. It is published at Canajoharie, N. Y., at 60 cents a year.

THE HOME CIRCLE for July is at hand and we are pleased to note that it makes no backward steps, but improves with each number and rapidly growing in public favor. Published at 1420 Chestnut St., Philadelphia, at \$1.50 per year.

GREEN'S FRUIT GROWER has certainly kept pace with most of the publications of its class and character, and the July number which is before us is a credit to its editor and publisher. It contains many articles of value to those engaged in fruit culture and is very cheap at 25 cts. a year. Published at Rochester, N. Y.

Everything published by D. Lothrop & Co., Boston, bears the impress of master workmen and their magazines are models of artistic work. Their excellent children's magazine, THE PANSY, for July, is at hand. Its stories are delightfully refreshing and even the pictures make one feel cool these hot days. The little ones always await its coming with impatience and devour its contents eagerly. Weekly, 75 cents a year; semi-monthly, 40 crnts, and monthly at 25 cents.

We furnish any paper or magazine at the publisher's price, and in connection with SEED-TIME AND HARVEST at even lower rates.



## LETTERS FROM THE PEOPLE.

## OUR NEW PREMIUM.

South Haven, Mich., July 6th, 1883.

I. F. Tillinghast: Dear Sir, I saw an advertisement to night in SEED-TIME AND HARVEST in regard to Dio Lewis's new book, "In a Nutshell." Was glad to see you offer such a useful book as a premium. Our boys certainly need such wholesome advice as Dr. Lewis gives, and I will do all in my power to help you further the sale of the book. I am in the store of H. Peckham this summer, and will see a great many people, especially boys who would buy the book. Should I act as your agent what per cent off would you give me? I will do the best I can for you; could probably sell a good many copies. I am greatly interested myself in the work which people will doubtless make up to after awhile,—of saving boys from the many evils into which they fall through ignorance, as I sincerely believe, and not total depravity. Please find enclosed a money order for \$1.00 for which send me sample copy of book, and SEED-TIME AND HARVEST for two years more, 1884-5, if you will consent to do this. Should you desire to have me act as your agent, please write me. Would you have the power to give me territory for an agency, or could you make such an arrangement with the publishers?

Before I close this note I wish to tell you how much I think of SEED-TIME AND HARVEST. I place it side by side with my Century and Harpers', in fact can obtain the same amount of boiled down information nowhere else in the same space as this very useful little monthly. If you can succeed in making it as good another year as you have during the past I am sure your circulation will be doubled.

Yours Truly, HARRY J. BROWN.

ANSWER: We would very much prefer that you get us the two new subscribers as per our offer. Our object in making this liberal offer is to extend the circulation of SEED-TIME AND HARVEST, not to sell books, and from the kind words you express concerning it we judge you are or should be willing to exert yourself a little in our behalf. The offer is so liberal that you could almost afford to present two subscriptions to your friends and so secure the book. We thank you for the kind words you have for SEED-TIME AND HARVEST and hope to hear from you again.

## NAME WANTED FOR A VINE.

Smiths Point, Texas, June 18, 1883.

Mr. I. F. Tillinghast: Dear Sir, With this letter I mail you in a yeast powder can some sample balls or fruit of a wild vine that grows

here; it makes a fine ornamental vine for hanging baskets or inside training over windows, growing finely but does not bear fruit in the house, but abundantly out of doors. Please send me the proper name of it.

The package of wild flower seed produced some marvels of beauty. Three of the varieties are the same as the wild native flowers at this place, and a good joke is we did not recognize them until they bloomed. Yours Truly,

CHAS. N. ELY.

ANSWER: Thanks for the specimens which we are unable to name, never having seen anything like them before growing on vines. They look almost exactly like "Wild Goose Plums" in color, shape and size, and would indeed be ornamental if they would bear fruit in a hanging basket or as a window climber.

Of course very many of our finest flowers are originally found growing wild in some part of the world, so it is not at all singular that in a collection of several hundred varieties, of which our Wild Garden seed is composed, native Texas plants should be represented. But perhaps they will not be a disappointment to our friends in Maine and Washington Territory.

## ONION SETTS.

Harlem, O., June 16, 1883.

Mr. Tillinghast: Will you give me the information I desire about onions? Will Red Wethersfield onion seed sown next month thick for setts, to set out next spring, produce bottoms as from seed, or produce seed on top, or what kind of onion seed would you sow for setts to raise large bottoms, as I want to send to you for some more seed soon. Please answer my request and oblige

JAS. WELD.

ANSWER: Onion setts are produced by sowing seed very thickly, say 50 pounds per acre. They are usually sown early in the season for this purpose, not that all the season is required to produce them, but if matured sufficiently early to be pulled in July or August in harvest weather there is much less trouble in curing the bulbs, than if the work is delayed and the curing attempted after the fall rains come on. If we wished to grow onions and failed to get them in early, we should defer it until about September and then prepare the ground and sow them at the rate of 5 to 7 pounds per acre as in spring. Then before the ground freezes give a light covering of straw which will protect them during the winter. They will then start much earlier in spring than spring-sowed onions, and grow very large.

We hope to hear soon from our readers in various sections in regard to this method so that we may know how far north or south it may be successfully practiced. Will all who have tried it please report?



## THE EUROPEAN CARP.

The great interest which is being manifested in Fish Culture, and particularly the propagation of carp, leads us to collect a few facts and figures in regard to this rapidly growing industry. A correspondent of the Country Gentleman gives the following:

"The artificial propagation and culture of fish is a great and growing industry in the United States, and no species is of more importance than the distinguished immigrant, the European carp, *Ciprinus carpio*. This fish is being rapidly propagated in the national carp ponds at Washington, and distributed to all parts of the country. In view of the importance of this government enterprise, especially to farmers who may have a pond at their disposal, or the "makings" of one, it may not be amiss to look a little into the history and characteristics of the fish. It is closely related to the gold-fish, red-fin, shiner, and several other fish common in the lakes and streams of America. The carp has been grown artificially for centuries, and like many domesticated animals, it has developed several distinct varieties. Of these there are three leading groups—those with scales, like ordinary fishes, called "scale carp"; the "mirror carp," with very large scales in a band on each side of the body; and the "naked carp," which has only a few scales along the top of the back, and a soft velvety skin on the rest of the surface. It is "naked carp" that is most largely propagated here, though some of the two other classes were brought from Germany.

The first successful importation was made in May, 1877, when 345 young carp were brought to New York. They spent their first season in ponds made for them at Baltimore, and were removed to the government carp ponds at Washington in 1878. These ponds cover about twelve acres, in the vicinity of the monument.

The carp is propagated very readily, and reared with ease. A fish weighing five pounds lays from 400,000 to 500,000 eggs, and one of twice that weight will deposit the enormous number of 1,500,000 eggs. The carp spawn in the summer; the eggs are sticky, and cling to grass, twigs, &c., and hatch in from ten to twenty days. This fish is a vegetarian, and in this important characteristic it differs from most other American fish grown for food. The carp, on this account, is harmless to other fish. Prof. Baird has written: "The food fish indigenous to the United States, which has been most widely distributed in the smaller ponds and lakes, is the

large-mouthed black bass. This fish is very carnivorous, preying upon almost all species in the same waters. Even the pickerel is said to decrease rapidly when in contact with it. The necessity of fish food is always a bar to a great increase of numbers among fishes, particularly in small bodies of water." Contrariwise, the carp do not decrease the number of other fish, but will supply them with food if it is thought desirable to grow them in the same waters with carnivorous fish.

The carp accommodates itself readily to conditions that are considered unfavorable for the growth of most fish. "They are equally at home in lakes and streams, and in the merest puddles and ditches, and are found in the latitude of St. Petersburg as well as in Italy and Northern Africa." To any farmer who has a small stream in which a pond may be made at a trifling expense, the growing of carp is heartily recommended. The fish is a rapid grower, and especially so in American waters. A carp in its fourth year will weigh nine or ten pounds here, while those in Europe of the same age are about half as large. It grows more rapidly in the south than at the north. In New York and its latitude the season's growth of a young carp averages not far from three pounds.

The young carp are sent out in tin cans holding a gallon of water and twenty fish. For larger shipments, ten-gallon cans are employed, which accommodate 150 to 200 fish. It has been found that the autumn is the best season to distribute, as they are then better able to bear the transportation than in the spring. Those who enjoy delicate-flavored fish for the table, and can grow carp, should take the necessary steps to stock a pond and add fish-growing to the list of farm operations."

Mr. D. N. Kern of Lehigh Co. Pa., who has given considerable attention to carp culture writes as follows to a contemporary:

"My six breeding carp commenced to spawn about the middle of May. When the little carp were first hatched they swam nearly on top of the water, but now they are three weeks old and some are two inches long, the greatest number are one and a half inches long and they keep pretty close to the bottom of the pond; that is where the water is about one foot deep. How many thousands I have got, I cannot say; perhaps fifty thousand. I expect I will have a hundred thousand in about one week from this date, June 18th. My old carp weighed three pounds last fall; at this date they weigh about four pounds. Two weeks ago I put four young



carp in a cold spring and they have not grown one eighth of an inch yet, while their brothers and sisters are two inches long in my warm pond. The carp must have warm water to grow and thrive well. I have one of the finest carp ponds in Lehigh Co., and I will try and show the people next fall what a wonderful fish the carp is. I hope the readers of the FARMER will not get scared when I tell them next fall that my six month old carp are seven inches long and weigh one pound. If God spares my life a while yet I will construct a large and deep pond where I will fatten my carp for the market. In the second summer I can make them grow so fast on corn meal and lettuce that they will weigh over three pounds a piece."

A southern farmer who has been raising carp in ponds supplied with surface water makes the following suggestions about constructing ponds:

"A dam is thrown across the lower end of a hollow; the dams are made entirely of soil or earth; this is the best material to make a dam of, and is also the cheapest. The sides of the dam should have a slope of at least 45 degrees. I do not use any stone or wood (except to overflow or drain) on this kind of a pond. I try to have no stones or pieces of wood lying around near the ponds, for these are only places of shelter for some of the enemies to the fish, and an inducement for snakes, crawfish, etc., to harbor near the ponds. The deepest part of the pond should be at least eight feet: then it should run out shallow on the sides all around, or as much so as possible. It is better to have the shallow places in the pond on the north and west sides; here the sun will strike the water early in the day, and if shallow will warm it up quicker. The carp will always be found in the part of the pond where it is the warmest; here they find most of their nourishment, and it is in the warm shallow places where most nourishment is produced, such as insects, etc. Toward the cool part of the day and evening, the carp retire to the deeper parts of the pond (where it is then the warmest), and so do the insects that were hatched or bred during the day. There should be no gravel or stone in the deepest part of the pond. Spade up well the bottom of a new pond before the water is let in. Have as much surface water flow into the pond as possible; more nourishment is in this than in spring water, especially when it flows from pastures. There should be a ditch around a carp pond, so that the water that comes from the melting of snow can be run off, as too much snow water let into a carp pond will sicken and often destroy

the fish. During winter one or more large bundles of rye straw, should be placed upright in the water in this kind of a pond. This will leave air-holes in the ice, and then it is not necessary to chop holes in the ice when the pond is frozen over."

#### ORIGIN OF THE TOMATO.

A good many years ago a scamp who had arrived from the Bermuda Islands, was sent to the York county, Pennsylvania jail, for some offense committed against the laws of the Commonwealth. He had with him a few seeds which he planted in the rich soil of the jail yard. Before the plants which sprang from the seed matured he was discharged, and no one knew the name of them. They grew luxuriantly, bearing fruit of a large size and unusual appearance. As this strange fruit ripened, its color changed from green to a brilliant red, and became an object of wonder and admiration to all the inmates of the jail. Mrs. Klinefelter, the lady keeper, cautioned all the prisoners against eating any of the fruit, as she was sure it was poisonous, and besides that, she had promised the man who had planted the seed that she would endeavor to preserve specimens of it for him should he return in time. Just when the fruit was fully matured the Bermuda prisoner re-visited the jail and asked to see the plant. The request granted, he next called for pepper, salt and vinegar, and to the horror of the good lady commenced to eat of the supposed poisonous fruit with a relish that astonished the beholders. After enjoying the strange repast, he informed Mrs. Klinefelter that the fruit or vegetable was the tomato, or love apple, and it would be found wholesome and nutritious. The seed of the remaining tomatoes were carefully preserved and distributed among the friends and neighbors of the lady, and thus this now popular esculent was introduced into the ancient and goodly borough of York. For many years thereafter it was cultivated as an ornament rather than for table use, but by degrees its merits began to be more fully understood and appreciated, and there as elsewhere, it grew into general public favor.—[American Grocer.

One of the boys tells of a scarecrow made by Uncle Ben. It not only scared off every crow that saw it, but one crow was so frightened that he brought back the corn he had stolen three days before.



## NOTES AND GLEANINGS.

THERE IS A POPULAR BELIEF pretty firmly fixed in the minds of cabbage growers that American grown cabbage seed are superior to imported. Whether this is the result of claims put forward by American growers, or the result of actual trial by planters, we do not know. And whether, if the claim be true, it is on account of the superiority of our American stocks, or to the influence of climate we cannot say. We have some experiments under way which we hope will throw some light upon these points. We have procured some samples of the most popular varieties from England, France, Germany, California, Oregon and Washington Territory we shall have tested here and also in different sections of the Union. We have also sent some samples of our best strains to most of the above countries for trial. We propose to supply our patrons with as good cabbage seeds as the world can produce, and if there is any better strains in existence, than we already have, we wish to find them out.

Dr. Oemler in "Truck Farming for the South," says "Cabbage from imported seeds are thought to be more certain to head, and in the vicinity of Savannah, those from Germany are preferred, however it may be in other localities." Should any of our southern readers desire to test cabbage seeds from any of the above named sources, in comparison with each other or those of their own growth, we will send samples of seed on condition that they will report to us the result.

AT THIS SEASON of the year orchards are very liable to be attacked by the canker worm. This insect is one of the most devastating of all our insect pests if not promptly destroyed. They spread slowly, however, as the female moth has no wings. She lays her eggs after climbing the tree, and if prevented from ascending the trunk most of the ravages may be prevented. A good plan is to tack a strip of carpet paper two or three inches wide around the tree and coat the exterior with tar. There are many devices for preventing the female moths from ascending the tree, most of which are effectual. The larvæ can be recognized by their yellow and black stripes, ten legs, and their habit of "looping" or "measuring." When they are disturbed they fall by means of a silken thread and hang suspended. If trees are devastated by the canker worm they have the appearance of having been scorched by fire. The larvæ are easily destroyed by Paris green or London purple. Put one-third

pound of the poison into a barrel of water, keeping the mixture well stirred. It can be thrown over the trees by means of a syringe or force pump. One application should nearly rid the orchard of the pests.

CABBAGE WORMS now claim attention and inquiries as to the best method of destroying them are frequent. One of our correspondents says red pepper did the business for him. Another uses hot water. Joseph Harris says that his private secretary advised his correspondents to "shoot them." We do not know the exact manner of his procedure, but think that if he would use the right kind of powder—Dalmatian Insect Powder—that shooting with an insect gun or bellows, or even a large pepper box, might prove very effectual. At least a correspondent of ours in Atlantic County N. J., in a recent note ordering a liberal quantity of this powder says, "I received some from you last year and it did good work. It saved the cabbage patch I believe." Mr. Harris does not confirm his secretary's method. He says the only practical remedy he has ever tried is heavy manuring and thorough cultivation, and setting out plants by the thousand instead of by the hundred.

THE farmer should concentrate his crops into the best paying articles. Butter, cheese, beef, pork and mutton represent only a certain amount of grass, hay and grain that his farm produces. Instead of selling the raw commodities, he can, by putting them into these articles, get much better returns for his products. What he raises has to go to some market. By condensing it, less freight will have to be paid, and thus much will be saved. A farm is not only a farm; it is, or should be, a factory for changing the raw products into articles of general consumption that have a commercial value the world over—that are of the best quality, that keep well and sell well, and bring prices that will pay well for the skill, labor and capital employed in producing them.

CABBAGES are largely grown in some parts of England as a forage crop, and are considered one of the best green feeds to stimulate milk production that the farmers can use. Lately the market price in Boston has been so high that our New England farmers would prefer to sell their cabbages and purchase hay and grain, but the unsalable heads and outer leaves should be saved and fed to the cow. If given at the barn directly after milking, and the stable is properly ventilated, they will not impart any flavor to the milk, providing that the amount fed at first



shall be small, after which it may be gradually increased until the animal has all she will eat.

SHINGLES are said to last much longer and are prevented from warping in dry weather, thus causing a leaky roof, if they are covered with a whitewash made by adding slacked quicklime to a moderately strong brine; some would add sand or whiting to the whitewash, but the advantage of doing so is doubtful. If the white color is objected to for the roof, any painter can give instructions for changing to any tint desired, from a flaming red to a delicate stone color. Some prepare their shingles by dipping them in the wash before laying, but this entails extra labor, and is but little, if any better, as all that is needed is to protect that part which is exposed to the weather.

DR. OEMLER in his recently published "Truck Farming at the South," says Onions may be sown at any time in the fall, the weather being favorable but there is nothing to be gained by such very early planting. In the latitude of Savannah and northward the young plants of October and November sowings may be exposed to injury from heavy rains, or, notwithstanding the very hardy nature of the onion, from severe freezing in December. The crops from seed sown about January 1st, escapes these damages and comes in early enough for the better demand, and growing through a shorter and warmer period will require a less extended care.

It is our opinion that to successfully withstand the winter in the north, the seeds should be sown about the time of sowing winter wheat, so that the young plants may become firmly rooted. A slight covering will then protect them during the winter and they will be ready for an early start in spring, keeping pace with spring planted "setts."

THEORIES based upon single experiments are of but little value. Agricultural experiments to be worth much to the farmer must cover many year's tests under varying conditions. Bulletins of single experiments are often curious and interesting, but not safe guides to the practical farmer. Thus it is the practice among experimenters to plant a certain crop in rows side by side upon similar soil and in a similar exposure, to apply different fertilizers to each row, and to test their efficiency by weight or measure at the end of the season. The differences in yield are then supposed to represent the differences in the values of the various fertilizers. The uncertainty of such a trial, unless continued for several seasons, has been rendered apparent by

Prof. Beal, who has grown various vegetables in rows side by side, giving each row the same manure and the same treatment, and weighing the yields. These yields were found to vary much, in many cases more than has been reported by experimenters upon fertilizers. Contiguous rows of onions twenty or thirty rods long, all receiving the same treatment, often varied several bushels in yield. Here is an "error of experiment" which is seldom taken into account.

WITH pressed bricks, cement pavements and fire-proof inventions, the age of raw material for building is fast passing away. At the West they are now making boards and beams out of straw. Its toughness, its firmness in holding nails and screws, the ease with which it can be cut, the fact that it can be bent by heat and shaped in dies, all recommend it to carpenters and builders. It seems to be a non-conductor of heat and electricity. It can be rolled up into pipes of great strength and light weight, and is available for a range of uses for paneling purposes for which we have no equivalent.

IN HIS "Truck Farming at the South," Dr. Oemler says the business of producing vegetables for shipment has gradually developed to astonishing proportions, principally in the vicinity of the larger cities of the South. One of the results has been that land within three miles of Savannah, for instance, has risen in value one hundred and fifty per cent within the last twelve years. Of course failures occur in this as in every other pursuit, but when favorable conditions of soil, situation, etc., exist, sober, economical, industrious and intelligent farmers who attend closely to their business can make this a most profitable branch of agriculture. As an instance of successful truck-farming he cites a case within his knowledge of three brothers who commenced to farm on their own account seven years ago near Savannah. They had a borrowed capital of one thousand dollars wherewith to operate their first crop and make a payment on account of their purchase of land. They have not only been able to pay for the land in full from the proceeds of their crops, but have acquired in the aggregate two hundred and seventy-five acres, making at various intervals cash payments ranging from one thousand five hundred dollars to nine thousand one hundred dollars. Besides this they have expended various amounts in buildings, and other improvements, and have cash on hand and a bank account. One of the brothers has also invested in railroad stocks, and the elder of these has lately purchased a house and lot in town, for four thousand five hundred dollars, while there is not a mortgage, or lien of any kind on any of the property of the brothers.



**CORN FOR SITTING HENS.**—It is claimed that corn is the most suitable food for sitters. The requirements of a sitter differ from those of other hens. Keeping quiet and without much exercise, not much is required to sustain life, and their food should be of such a nature as to digest slowly. For this reason whole grain is preferred, and corn is thought to be much the best. Soft food of any kind is soon digested, and the hen becomes hungry and either leaves the nest too frequently or else becomes very poor. The advantage of corn over other grain is that it is more oily and not so likely to stimulate the production of eggs, and, being hard and compact, it digests much slower than other grain.—**THE POULTRY MONTHLY.**

**MENDING RUBBER BOOTS.**—Cut virgin or native India-rubber with a wet knife, into the thinnest possible slices, and with shears divide these into threads as fine as fine yarn. Put a small quantity of the shreds (say one-tenth or less of the capacity of the bottle) into a wide-mouthed bottle, and fill it three-quarters full of benzine of good quality, perfectly free from oil. The rubber will swell up almost immediately, and in a few days, especially if often shaken, assumes the consistency of honey. If it inclines to remain in undissolved masses, more benzine must be added; but if too thin and watery, it needs more rubber. A piece of rubber the size of a walnut will make a pint of cement. This cement dries in a few minutes, and by using three coats in the usual manner, will unite leather straps, patches, rubber soles, backs of books, &c., with exceeding firmness. The India-rubber, unvulcanized, can be obtained at most large stores where rubber goods are sold, and at some drug stores.

**H. C. WEBSTER**, Delaware Co., Pennsylvania, owns about 600 hens, and believes that the raising of poultry can, with proper attention, always be made one of the most profitable departments of the farm. During the first eight months of the past year he obtained 42,000 eggs, which he sold, with the exception of those consumed in his own family, for \$602, about one-half of which was profit. His stock consists of mixed breeds, which have ample space to roam. Their feed largely consists of wheat screenings.

**MOSS** on shingle roofs may be removed by the following method: Take a few pails of slacked lime, according to the size of the roof, and throw on the roof just before a gentle rain or just after a shower, while the roof is wet, and in a few days the moss will all loosen, and the wind will blow it clean off the roof, leaving the

shingles clean and white. The moss being of a spongy nature, holds the moisture several days, which causes the shingles to decay, and also causes the roof to leak. The lime also acts as a preservative to the shingle.

**A METHOD** of preventing the inroads of the cabbage grub is to make each plant unpalatable to the grub. This may be done in the following manner: In the spring procure some fresh burned lime, let it become air slacked, and mix it with an equal quantity of soot. In planting, the holes are made with a trowel in the usual way; each plant is dropped into its place and an inch of soil put over the roots, a good watering given first, then a moderate handful of soot and lime mixture thrown into each hole, and the remaining soil filled in. Equal parts of soot and fine garden soil mixed with water to the consistency of thin mortar, with the plants dipped into the mixture up to the base of the leaves previous to planting, is also advised as a preventive to clubbing. Wood ashes, mixed with water poured into the holes, has been tried with success.

**NOW** is a good time to scrape off the rough bark from the trunks and larger limbs of fruit trees and give them a good coat of whitewash. It acts as a stimulus to the tree and destroys the eggs of innumerable insects. It is better to put in soot or other coloring matter so as to give a brown color than to have it a dead white. Some have recommended sulphur in the wash, as having a tendency to keep down fungoid growth. It certainly could do no harm.

**LIME** slacked out dry, or air-slacked, so as to be fine and light, and sprinkled freely on squash, melon and cucumber vines, has been found to be a protection from the striped bug. The bug always flies in its passage from one locality to another. If it alights on the limed surface of the leaves it does not like the lime, and if closely watched will be seen to soon put out for some other locality. The lime should be renewed as often as washed off by rain, or as soon as new growth requires it.

**SHEEP** manure with some straw mixed with it is the best thing I ever tried on onions. Put it on as thick as you can afford; then keep the weeds out, but don't hoe the dirt up to the onions. Stir the soil as much as possible. For the maggots I tried hoeing in wood ashes one year, and it was a benefit. The next year I sowed wood ashes on before planting, and it fixed them. I put on a peck to the square rod. On my land (a light soil) ashes greatly increase the crop also.—**Young Farmer, Carroll, N. H.**



NEW STRAWBERRIES.—Every season brings before the public several new candidates for popular favor among all classes of fruits, but none are so numerous, we believe, as strawberries. A few months ago we were made to believe that none could in merit excel the Sharpless, Manchester, Big Bob, Old Iron-clad, Longfellow, James Vick, Jersey Queen and others which were being temptingly held before the gaze of a credulous public, and now before we can fairly judge as to whether all these are genuine acquisitions or not, the papers and catalogues are embellished with still later candidates. Among these we note the Atlantic, Ulster, Legal Tender, Mrs. Garfield, Park Beauty, &c., and "still there's more to follow." How can we give them all a place or even a trial? And yet we would really like to become acquainted with them and prove their adaptability to our soil and circumstances.

We have been making some notes of comparison among the old new varieties or those which have fruited in field culture and will venture a few opinions concerning them. This has been a peculiarly fitting season to test the character of strawberries for shipping purposes, it having rained every day without a single omission for the past ten days, covering the height of the strawberry season. The Longfellow seems to "stand up" the best of any and ripen large, glossy, hard berries in a continuous rain. It is very productive, large, fine flavored and altogether one of the very best varieties for shipping purposes yet introduced. Next in these qualities comes the Windsor Chief, Glendale, Manchester, Crescent and Wilson. The Sharpless produces very large sweet berries, most excellent for table use, but it will not stand for shipment in wet weather. One of our growers remarked yesterday, that had his Sharpless been Longfellow or Windsor Chief, it would have made \$50 difference to his receipts for this season, and yet if we were going to set a bed for family use alone, we should select Sharpless above all others.

THE TALLEST NURSERYMAN IN THE UNITED STATES, says the Gardener's Monthly, is Daniel Conger, of Wolcott, N. Y., who stands 6 feet 6 inches. We remember that when, in a critical moment during the civil war, he was asked as an influential public speaker and a leading public man in his community, to go and make a speech to favor enlistments; he went, and from the platform simply said, "I am going to enlist as a private soldier; who will go with me?" No wonder the company was immediately filled,

when they had such a bulwark as this to shelter them, and still less wonder when, during the war, he hobbled into our office, from a neighboring hospital, with a bullet through him. Men of this size should have two pensions, as surely their chances of being struck were doubled.

THE EDITOR OF GREEN'S FRUIT GROWER, in referring to the above says.

"We are pleased to see Pennsylvania yield the honors thus gracefully. To be sure, it places the editor of the FRUIT GROWER, who is only six feet one, at a disadvantage, but when cucumbers get plenty Mr. Conger may over-indulge, so we have some hopes yet. Not that we would desire to kill off Mr. Conger; far from it. He has done such good service in disseminating the Worden grape, we want him even a little longer. But men who have braved bullets, bayonets and batteries, often fall ignominiously before cucumbers. Mr. Meehan mentions that Daniel Conger was wounded in the great rebellion. Had we known that, we would not have driven such close bargains with him. Friend Conger is the Worden grape man. He talks Worden, plants Worden, eats Worden and dreams of Worden—Worden absolutely pure and true. If you should happen to meet him, you would find he had sold you 1,000 or so Worden vines before you knew what you were about. He has sold us lots of them. Mr. Conger was a law student at Albany with our Professor Clark—they were boys together. Last year we were shown the oldest nurseryman, now we have the tallest. The youngest and smallest will now report at this office; also, the fattest and leanest, the one with the most money and the least."

Mr. Conger's advertisement having frequently appeared in SEED-TIME AND HARVEST, we take it for granted that our readers will be interested in the above on account of the personal history given, and as we know that the Worden is a good grape we hope they will relieve him of any surplus vines he may still have on hand.

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Celebrated Stencil Plate and Ink for  
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**Stencil Plates**  
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Sample set (4) mailed for 25 cents.  
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**ITALIAN and HOLY LAND BEES, QUEENS, NU-**  
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Gilman's renowned strain. Send for circular.  
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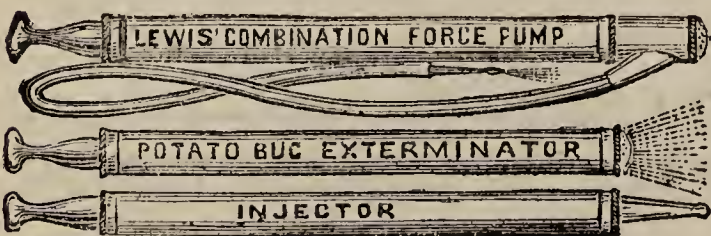
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Also **CHESTER WHITES**  
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should be sent in early. We have also for sale, Ox-  
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Envelopes, Note-Heads or Circulars. Good work, and  
give customers free use of over 75 accurate cuts  
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cent stamp for specimens. Satisfaction guaranteed.  
Large orders at bottom prices. Also breeder of  
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Electrotype Cuts of Poultry, Pigeons and Pet  
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**FLORISTS' MAILING BOXES,**  
**GRAPE BASKETS, &C.,**  
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**ANOTHER NEW IMPROVEMENT IS**  
**The Lewis Patent Spray Attachment.**  
Can change instantly from solid stream to spray.

Don't fail to read this **SPLENDID OFFER.**

I will send a sample Pump, express paid, to any Ex-  
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I also manufacture the "Potato Bug Exterminator" or  
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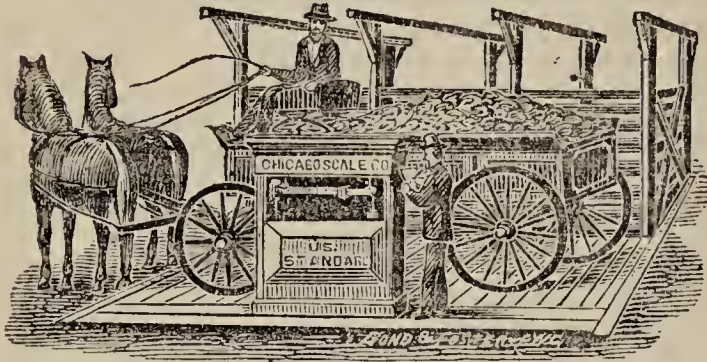


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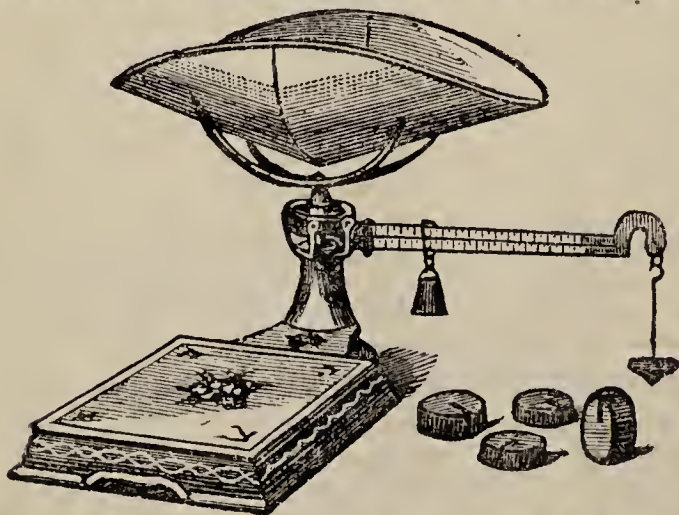
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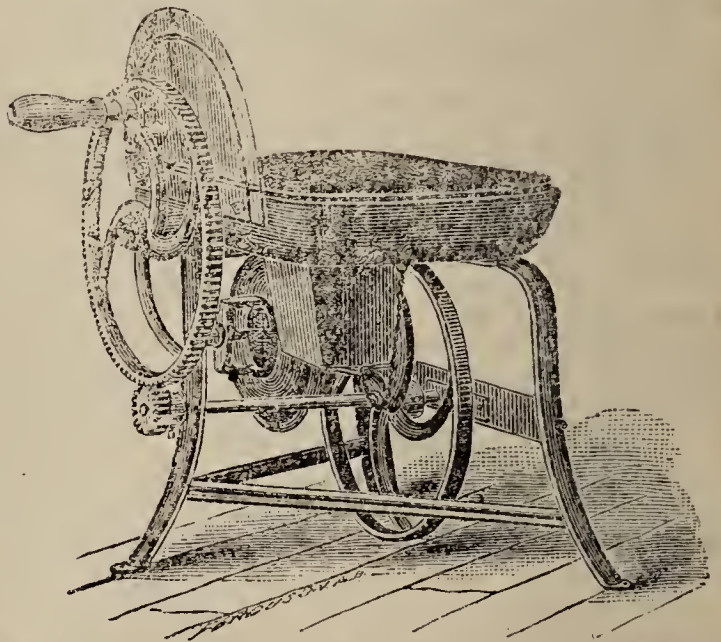
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**CHICAGO, ILL.**

## Portable Forges AND BLACKSMITH'S TOOLS.

Every Farmer can save time and money by doing his repairs and odd jobs. Hundreds of other articles useful about a Farm sold at less than wholesale prices. We send out no travelling salesmen.

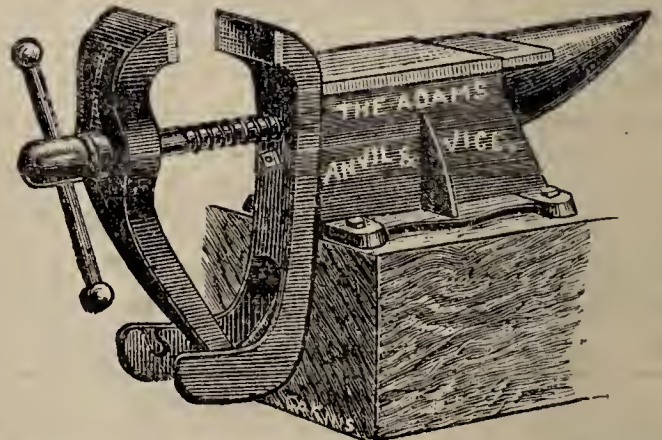
Farmers and Farmers' Sons  
can make money selling to their neighbors.



### A Good Forge for Farmers, \$10.

Will heat 1½ inch Iron to welding heat if wanted. All sizes larger up to one required for the largest Blacksmith and Carriage work. Also,

## PATENT BLOWERS and BELLOWS,



**ANVILS, VISES, SLEDGES, DRILLS,**  
Hammers, Screw Plates, all kinds of Blacksmith's Tools, Grindstones, Post-Hole Augers, Farm Bells, Corn Shellers and hundreds of other specialties at Lowest Prices. Write us and Save Money.

**CHICAGO SCALE CO.,**  
**Chicago, Ill.**



## RELIABLE SEEDS —AT— HONEST PRICES.

I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I refill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

**No seeds** are sent out on commission to be returned and sold in after years!

**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if **packets only** are taken.

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

| Beans.                      | 2-oz Pkt. | Lb. | Peck. |
|-----------------------------|-----------|-----|-------|
| Lemon Pod Wax .....         | 15        | 50  | 4.00  |
| New Prolific Tree Bean..... | 15        | 50  | 4.00  |
| Crystal White Wax.....      | 10        | 40  | 2.50  |
| Early Feejee.....           | 10        | 30  | 1.60  |
| Early Black Wax.....        | 10        | 30  | 2.00  |
| Jones's Ivory Pod Wax.....  | 10        | 40  | 2.00  |
| Ferry's Golden Wax.....     | 10        | 40  | 2.00  |
| Large White Marrowfat.....  | 10        | 25  | 1.60  |

| Pole Beans.                | 10 | 30 | 2.00 |
|----------------------------|----|----|------|
| Concord.....               | 10 | 30 | 2.00 |
| Large Lima.....            | 10 | 30 | 2.50 |
| German Wax.....            | 10 | 30 | 2.00 |
| Dreer's Improved Lima..... | 10 | 30 | 3.00 |

| Corn.                       | 10 | 30 | 1.60 |
|-----------------------------|----|----|------|
| Red River, New.....         | 10 | 30 | 1.60 |
| Early Marblehead.....       | 10 | 30 | 1.60 |
| Amber Cream, New.....       | 10 | 30 | 1.60 |
| Early Minnesota.....        | 10 | 30 | 1.60 |
| Crosby's Extra Early.....   | 10 | 30 | 1.60 |
| Black Mexican.....          | 10 | 30 | 1.60 |
| Stowell's Evergreen.....    | 10 | 30 | 1.60 |
| New Egyptian.....           | 10 | 30 | 1.60 |
| Red and White Rice Pop-Corn | 10 | 40 | —    |
| Wauhakum Field.....         | 10 | 30 | 1.00 |
| Longfellow's Field.....     | 10 | 30 | 1.00 |

| Peas.                        | 20 | 90 | 6.00 |
|------------------------------|----|----|------|
| American Racer.....          | 20 | 90 | 6.00 |
| American Wonder.....         | 15 | 50 | 4.00 |
| Extra Early Dan. O'Rourke..  | 10 | 30 | 1.60 |
| Philadelphia Extra Early ... | 10 | 30 | 1.60 |
| Blue Imperial.....           | 10 | 30 | 1.60 |
| McLean's Little Gem.....     | 10 | 30 | 1.60 |
| Champion of England .....    | 10 | 30 | 1.60 |
| Black-Eyed Marrowfat.....    | 10 | 20 | 1.00 |

| Asparagus.                    | Pkt. | Oz. | Lb.  |
|-------------------------------|------|-----|------|
| Conover's Colossal.....       | 05   | 10  | 0.75 |
| Early Purple Giant Argenteuil | 05   | 20  | 1.50 |

| Brussels Sprouts.         | 05 | 25 | — |
|---------------------------|----|----|---|
| New Dwarf.....            | 05 | 25 | — |
| Carter's Perfection ..... | 05 | 25 | — |

| Beets.                     | 10 | 25 | —   |
|----------------------------|----|----|-----|
| New Eclipse, true.....     | 10 | 25 | —   |
| Early Egyptian.....        | 05 | 10 | .75 |
| Bassano .....              | 05 | 10 | .75 |
| Dewing's Red Turnip.....   | 05 | 10 | .75 |
| Yellow Turnip.....         | 05 | 10 | .75 |
| Long Smooth Blood.....     | 05 | 10 | .75 |
| Above Varieties Mixed..... | 05 | 10 | .75 |

| Mangel Wurzel Beets.   | Pkt. | Oz. | Lb. |
|------------------------|------|-----|-----|
| Yellow Globe.....      | 05   | 10  | .75 |
| Norbitan's Giant ..... | 05   | 10  | .75 |
| Webb's New Kinver..... | 05   | 10  | .75 |
| Imperial Sugar.....    | 05   | 10  | .65 |

| Broccoli.               | 10 | 60 | — |
|-------------------------|----|----|---|
| Early Purple Cape ..... | 10 | 60 | — |
| White Cape .....        | 10 | 60 | — |
| Walcheran .....         | 10 | 60 | — |

| Cauliflower.                | 20 | 2.00 | — |
|-----------------------------|----|------|---|
| Lackawanna (New) .....      | 20 | 2.00 | — |
| Early Snowball, New, .....  | 20 | 2.00 | — |
| Earliest Dwarf Erfurt ..... | 20 | 2.00 | — |
| Early London.....           | 15 | 75   | — |
| Nonpareil .....             | 20 | 1.25 | — |
| Lenormand's Short Stem....  | 20 | 1.25 | — |
| Above Varieties Mixed.....  | 20 | 1.25 | — |

**Cabbage.**  
**American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

|                             |    |    |      |
|-----------------------------|----|----|------|
| Hartwell Early Marrow ..... | 15 | 50 | 8.00 |
| Very Early Favorite.....    | 15 | 50 | 8.00 |
| Early York.....             | 05 | 15 | 2.00 |
| Berkshire Beauty, New,..... | —  | —  | —    |
| Early Bleichfield.....      | 10 | 25 | 4.00 |
| True Jersey Wakefield ..... | 10 | 25 | 4.00 |
| Henderson's Early Summer..  | 10 | 25 | 4.00 |
| Newark Early Flat Dutch.... | 10 | 25 | 4.00 |
| Large Early Oxheart,.....   | 05 | 20 | 3.00 |
| Early Winningstadt .....    | 05 | 20 | 3.00 |
| Fotter's Early Drumhead.... | 05 | 25 | 4.00 |
| Premium Flat Dutch .....    | 05 | 25 | 4.00 |
| Late American Drumhead....  | 05 | 25 | 4.00 |
| Marblehead Mammoth .....    | 05 | 25 | 4.00 |
| Perfection Drumhead Savoy.. | 05 | 25 | 4.00 |
| Red Drumhead, .....         | 05 | 25 | 4.00 |
| Red Dutch.....              | 05 | 25 | 4.00 |
| Early Dark Red Erfurt.....  | 10 | 35 | 5.00 |
| Above Varieties Mixed.....  | 10 | 30 | 4.50 |

| Carrot.                    | 05 | 10 | 1.25 |
|----------------------------|----|----|------|
| Early Short Horn.....      | 05 | 10 | 1.25 |
| Improved Long Orange.....  | 05 | 10 | 1.50 |
| Danvers Orange .....       | 05 | 10 | 1.25 |
| White Belgian .....        | 05 | 10 | 1.00 |
| Above Varieties Mixed..... | 05 | 10 | 1.00 |

| Celery.                       | 15 | —  | —    |
|-------------------------------|----|----|------|
| Golden Hartwell, New .....    | 15 | —  | —    |
| La Plume Chestnut, New,....   | 10 | 25 | 3.00 |
| Crawford's Half Dwarf.....    | 05 | 25 | 3.00 |
| Carter's Dwarf Crimson.....   | 10 | 25 | 3.00 |
| New Golden Dwarf.....         | 10 | 25 | 3.00 |
| Dwarf White Solid.....        | 05 | 25 | 3.00 |
| Boston Market.....            | 10 | 50 | —    |
| Sandringham .....             | 05 | 25 | 3.00 |
| Giant White Solid .....       | 05 | 25 | 3.00 |
| Celeriac, Turnip Rooted,..... | 05 | 25 | —    |
| Above Varieties Mixed.....    | 10 | 30 | —    |

| Chicory.          | 05 | 10 | 1.25 |
|-------------------|----|----|------|
| Large Rooted..... | 05 | 10 | 1.25 |

| Cress.                      | 05 | 10 | 1.25 |
|-----------------------------|----|----|------|
| Curled, or Peppergrass..... | 05 | 10 | 1.25 |
| Water Cress.....            | 10 | 60 | —    |

| Cucumber.                    | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Tailby's Hybrid, New,.....   | 05   | 10  | 1.50 |
| Early Cluster .....          | 05   | 10  | 1.25 |
| Early Russian .....          | 05   | 10  | 1.25 |
| Peerless Early White Spine.. | 05   | 10  | 1.25 |
| Green Prolific.....          | 05   | 10  | 1.25 |
| Long Green.....              | 05   | 10  | 1.25 |
| Above Varieties Mixed.....   | 05   | 10  | —    |

| Egg Plant.                  | 10 | 50 | — |
|-----------------------------|----|----|---|
| Long Purple .....           | 10 | 50 | — |
| Improved N. Y. Purple ..... | 10 | 60 | — |
| Very Early Dwarf Purple.... | 10 | 50 | — |
| Striped Gaudalupe.....      | 10 | 60 | — |
| Long White China.....       | 10 | 60 | — |
| Above Varieties Mixed.....  | 10 | 60 | — |



## SEED-TIME AND HARVEST.

| Endive.                         |      |     | Pumpkin. |                                      |      |         |             |     |     |
|---------------------------------|------|-----|----------|--------------------------------------|------|---------|-------------|-----|-----|
|                                 | Pkt. | Oz. | Lb.      | Pkt.                                 | Oz.  | Lb.     |             |     |     |
| Green Curled .....              | 05   | 20  | 2.00     | Large Cheese.....                    | 05   | 10      | .85         |     |     |
| <b>Gourds.</b>                  |      |     |          | Sugar. (Fine for pies,).....         | 05   | 20      |             |     |     |
| New Nest Egg .....              | 15   | —   | —        | Connecticut Field .....              | 05   | 05      | .45         |     |     |
| <b>Kohl Rabi.</b>               |      |     |          | <b>Radishes.</b>                     |      |         |             |     |     |
| Large Purple.....               | 10   | 35  | —        | Early Scarlet Turnip .....           | 05   | 10      | 1.00        |     |     |
| Early White Vienna .....        | 10   | 35  | —        | Early White Turnip .....             | 05   | 10      | 1.00        |     |     |
| Above Varieties Mixed.....      | 10   | 35  | —        | Long Scarlet Short-Top.....          | 05   | 10      | 1.00        |     |     |
| <b>Lettuce.</b>                 |      |     |          | Early Scarlet Olive .....            | 05   | 10      | 1.00        |     |     |
| Black Seeded Satisfaction ..... | 05   | 20  | 2.00     | French Breakfast.....                | 05   | 10      | 1.00        |     |     |
| Royal Summer Cabbage .....      | 05   | 20  | 2.00     | Grey Summer Turnip.....              | 05   | 10      | 1.50        |     |     |
| Black Seeded Simpson, New,..    | 05   | 30  | 4.00     | Golden Yellow Summer (New)           | 05   | 10      | 1.50        |     |     |
| Hanson .....                    | 05   | 20  | 2.00     | Summer Varieties Mixed....           | 05   | 10      | 1.25        |     |     |
| Victoria .....                  | 05   | 20  | 2.00     | China Rose Winter .....              | 05   | 10      | 1.00        |     |     |
| Early Curled Simpson .....      | 05   | 20  | 2.00     | Black Spanish Winter .....           | 05   | 10      | 1.00        |     |     |
| True Boston Market .....        | 05   | 20  | 2.00     | California Mammoth White..           | 05   | 15      | 2.00        |     |     |
| White Seeded Tennisball.....    | 05   | 20  | 2.00     | Winter varieties Mixed .....         | 05   | 10      | 1.50        |     |     |
| Black Seeded Tennisball.....    | 05   | 20  | 2.00     | <b>Rhubarb.</b>                      |      |         |             |     |     |
| Drumhead, or Malta .....        | 05   | 20  | 2.00     | Linnaeus .....                       | 05   | 10      | 1.60        |     |     |
| Above Varieties Mixed .....     | 05   | 20  | 2.00     | <b>Salsify, or Vegetable Oyster.</b> |      |         |             |     |     |
| <b>Leek.</b>                    |      |     |          | White French .....                   | 05   | 15      | 1.50        |     |     |
| Large Scotch Flag .....         | 05   | 30  | 4.00     | <b>Spinach.</b>                      |      |         |             |     |     |
| <b>Musk Melon.</b>              |      |     |          | Round Leaved .....                   | 05   | 05      | 0.50        |     |     |
| Nutmeg.....                     | 05   | 10  | 1.25     | Monstrous Viroflay .....             | 05   | 10      | 1.90        |     |     |
| Skillman's Netted.....          | 05   | 10  | 1.25     | <b>Squash.</b>                       |      |         |             |     |     |
| Improved Yellow Cantaloupe      | 05   | 10  | 1.25     | Low's Essex Hybrid, New,....         | 10   | 15      | 2.50        |     |     |
| Green Citron.....               | 05   | 10  | 1.25     | Early White Bush .....               | 05   | 10      | 1.00        |     |     |
| Pine Apple .....                | 05   | 10  | 1.25     | Summer Crookneck .....               | 05   | 10      | 1.00        |     |     |
| Jenny Lind.....                 | 05   | 10  | 1.25     | Hubbard.....                         | 05   | 10      | 1.25        |     |     |
| Surprise, New, .....            | 05   | 15  | 2.00     | Marblehead .....                     | 05   | 10      | 1.25        |     |     |
| Bay View, New,.....             | 05   | 15  | 2.00     | Butman, .....                        | 05   | 10      | 1.25        |     |     |
| Montreal Green Nutmeg, New,     | 05   | 20  | 3.00     | Mammoth .....                        | 10   | 30      |             |     |     |
| Netted Gem ... ..               | 05   | 20  | 3.00     | <b>Tobacco.</b>                      |      |         |             |     |     |
| Hackensack .....                | 05   | 10  | 2.00     | Connecticut Seed Leaf.....           | 10   | 30      |             |     |     |
| Christiana Orange .....         | 05   | 10  | 2.00     | Spanish Long Leaf.....               | 10   | 30      |             |     |     |
| Above Varieties Mixed.....      | 05   | 10  | 1.50     | <b>Tomato.</b>                       | Pkt. | Hf.-Oz. | Oz.         |     |     |
| <b>Water Melon.</b>             |      |     |          | Livingston's Favorite, New,          | 20   |         |             |     |     |
| The "Boss," New, .....          | 05   | 20  | 3.00     | President Garfield, New,....         | 10   |         |             |     |     |
| Japan Sculptured-Seeded .....   | 05   | 20  | 3.00     | Essex Hybrid, New.....               | 10   | .30     | .60         |     |     |
| Cuban Queen, New.....           | 05   | 20  | 3.00     | Ford's Alpha, New,.....              | 10   | .30     | .60         |     |     |
| Phinney's Early.....            | 05   | 10  | 1.25     | Acme, .....                          | 05   | .20     | .40         |     |     |
| Striped Gipsy.....              | 05   | 10  | 1.25     | Mayflower, New, .....                | 10   | .30     | .60         |     |     |
| Ice Cream .....                 | 05   | 10  | 1.25     | Red Currant .....                    | 05   | .25     | .50         |     |     |
| Mountain Sweet .....            | 05   | 10  | 1.25     | Paragon .....                        | 05   | .25     | .50         |     |     |
| Ferry's Peerless .....          | 05   | 10  | 1.25     | Canada Victor .....                  | 05   | .15     | .30         |     |     |
| Citron. (for preserving,) ..... | 05   | 10  | 1.25     | Conqueror .....                      | 05   | .15     | .30         |     |     |
| Above Varieties Mixed.....      | 05   | 10  | 1.25     | Livingston's Perfection, ....        | 05   | .30     | .60         |     |     |
| <b>Mustard.</b>                 |      |     |          | Trophy .....                         | 05   | .15     | .30         |     |     |
| White French.....               | 05   | 05  | .60      | Island Beauty.....                   | 05   | .30     | .60         |     |     |
| Black American .....            | 05   | 05  | .60      | Green Gage.. ..                      | 05   | .15     | .30         |     |     |
| <b>Onion.</b>                   |      |     |          | Golden Rural, New, ...               | 05   | .20     | .40         |     |     |
| Southport Yellow Globe, New     | 05   | 20  | 2.00     | Saint Paul, (New) .....              | 10   | .30     | .60         |     |     |
| Southport Red Globe, fine,....  | 05   | 20  | 2.00     | Above Varieties Mixed.....           | 05   | .20     | .40         |     |     |
| Early Red Globe.....            | 05   | 20  | 2.00     | <b>Turnip.</b>                       | Pkt. | Oz.     | Lb.         |     |     |
| Yellow Danvers.....             | 05   | 15  | 1.60     | New White Egg.....                   | 05   | 10      | 1.00        |     |     |
| Red Wethersfield .....          | 05   | 15  | 1.60     | Early White Dutch.....               | 05   | 10      | .75         |     |     |
| Large Yellow Dutch.....         | 05   | 15  | 1.50     | Purple Top Strap Leaf.....           | 05   | 10      | .75         |     |     |
| White Globe .....               | 05   | 20  | 2.00     | Long White Cow Horn .....            | 05   | 10      | .75         |     |     |
| White Portugal.....             | 05   | 20  | 2.00     | Large White Globe.....               | 05   | 10      | .75         |     |     |
| New Queen .....                 | 05   | 20  | 2.00     | Yellow Aberdeen .....                | 05   | 10      | .75         |     |     |
| White Italian Tripoli.....      | 05   | 20  | 2.00     | Yellow Globe .....                   | 05   | 10      | .75         |     |     |
| Giant Rocca.....                | 05   | 20  | 2.00     | Golden Ball.....                     | 05   | 10      | .75         |     |     |
| <b>Parsnip.</b>                 |      |     |          | Above Varieties Mixed.....           | 05   | 10      | .75         |     |     |
| Smooth Hollow Crowned .....     | 05   | 10  | .75      | <b>Rutabaga, or Swede Turnip.</b>    |      |         |             |     |     |
| Early Round.....                | 05   | 10  | .75      | White French, or Sw't German         | 05   | 10      | .80         |     |     |
| New Maltese .....               | 05   | 10  | 1.00     | Skirving's Purple Top Yellow         | 05   | 10      | .80         |     |     |
| <b>Parsley.</b>                 |      |     |          | Brill's American Yellow .....        | 05   | 10      | .80         |     |     |
| Extra Fine Curled .....         | 05   | 15  | 2.00     | Shamrock Swede, Yellow.....          | 05   | 10      | .80         |     |     |
| <b>Pepper.</b>                  |      |     |          | Above Varieties Mixed.....           | 05   | 10      | .80         |     |     |
| New Golden Dawn .....           | 15   |     |          | <b>Herb Seeds.</b>                   | Pkt. | Oz.     | Pkt.        | Oz. |     |
| Sweet Bell or Bull Nose.....    | 10   | 25  | 4.00     | Coriander .....                      | 05   | .20     | Dill.....   | 05  | .25 |
| Large Sweet Mountain.....       | 10   | 25  | 4.00     | Horehound.....                       | 10   | .50     | Sage .....  | 05  | .20 |
| Red Cayenne .....               | 10   | 25  | 4.00     | Summer Savory... ..                  | 10   | .30     | Saffron.... | 05  | .25 |
| Spanish Monstrous (New) ....    | 10   | 40  |          | Sweet Marjoram.. ..                  | 10   | .40     | Lavender .  | 10  | .30 |
|                                 |      |     |          | Caraway .....                        | 05   | .15     | Sweet Basil | 10  | .40 |
|                                 |      |     |          | Sweet Fennel.....                    | 05   | .20     | Thyme....   | 10  | .50 |

Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.

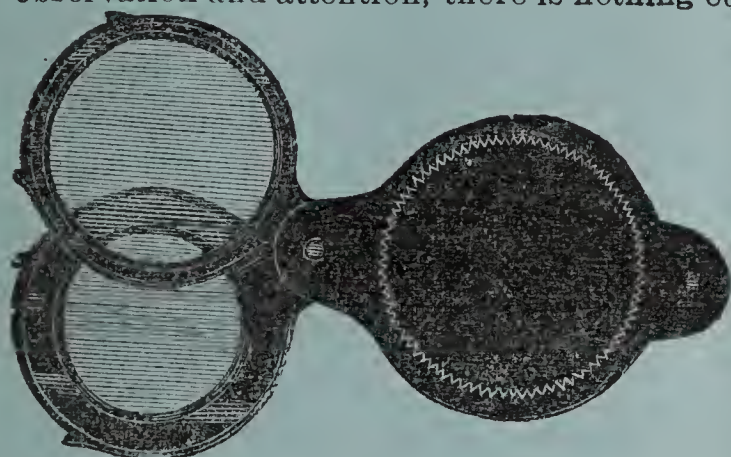


# IMPORTANT ANNOUNCEMENT!

**WE LIVE BENEATH OUR PRIVILEGES.**—To merely eat and drink and sleep, and to revel in beastly lusts and passions is an inferior condition of human existence which all may rise above. And yet as swine, in the midst of a world of wealth and beauty, are pleased to grunt and wallow in the vilest filth, so mankind in many cases seem to chiefly delight in only the most vulgar things pertaining to a brute existence. The fact is, we all live far beneath our privileges in this respect. We are surrounded by myriads of ingenious and artistic creations which are calculated to awaken thought, to stimulate reason and to inspire the soul with an appreciation of the good, the true and the beautiful. Yet these myriad creations all about us remain unseen and unheeded in ninety-nine cases in a hundred, because we have never acquired the habits of observation and attention. Having eyes we see not the objects within our vision; or if an object be seen at all, it is not heeded. It fails to awaken thought because the attention lacks cultivation. The neglect of this most important characteristic of an early education is the crying evil of our school system.

**POCKET MAGNIFIER.**—As a means of cultivating habits of close observation and attention, there is nothing equal to such an instrument as our Pocket

Magnifier, which stimulates curiosity and multiplies our capacity to see small things clearly. For instance, an insect which appears to be without form and no larger than a mite, when examined under our Magnifier, is seen to be as exquisitely formed and as delicately colored as any of its larger species. The skin upon a person's face and hands appears to be almost as rough as the hide of a rhinoceros. The different parts of flowers are so much enlarged as to exhibit varied attractions which only infinite skill could have planned and executed. Hence the Magnifier should be reckoned as an indispensable pocket companion of every child, as well as of



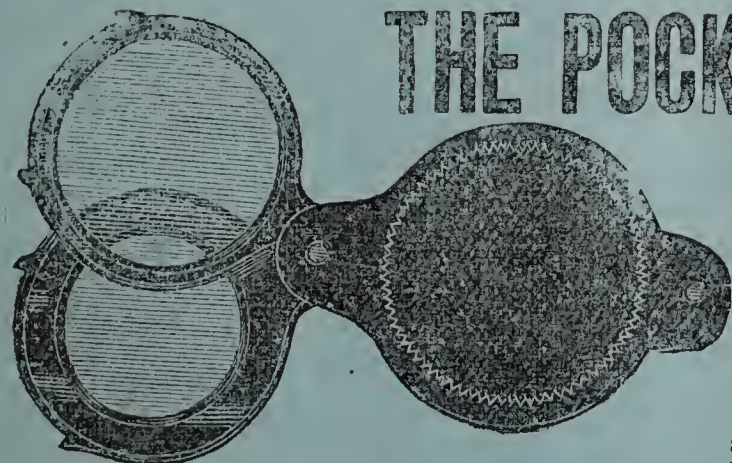
every grown person. The magnifying powers of this instrument range from three to ten diameters, or from nine to one hundred times the superficial surface. But a little experience will be needed in all cases to secure the best results in observation.

**HOW TO USE THE MAGNIFIER.**—The inexperienced operator should begin with the larger lens, holding it close to the eye, and then bring the object to be examined within focus, or where it can be most distinctly seen. This will be about three inches from the glass. The light should strike the object from behind the operator. Next, gradually remove the glass from the eye and keep the object in focus. It will be seen that the magnifying power increases as the distance of the glass from the eye increases. After thus experimenting with the larger glass, use the smaller one in the same way, and finally the two combined. The two lenses when thus used separately and in combination, give the powers which are most frequently useful. Of course the magnifier does not possess the exceedingly high powers of costly mounted instruments. But it should be remembered that while such expensive microscopes are especially useful only in the examination of very minute objects, the Pocket Magnifier is far more useful in the examination of all larger ones. Indeed, it can be advantageously used in ten cases where the other can be in one; and the actual usefulness of our Pocket Magnifier is far greater and more valuable than a \$100 instrument would be in the hands of more than one person in a thousand. Price only \$1, post paid.

## SPECIAL OFFER FOR 30 DAYS!

For One Dollar sent us before the first

day of September, 1883, we will send Two Copies of SEED-TIME AND HARVEST one year to any address, and also mail one of the Pocket Magnifiers as a present to the person sending the dollar. Write all names and addresses very plain and address,  
**SEED-TIME AND HARVEST, La Plume, Pa.**



## THE POCKET MAGNIFIER

stimu-  
lates  
curi-  
osity

and multiplies our capacity to see small things clearly. For instance, an insect which appears to be without form and no larger than a mite, when examined under our Magnifier, is seen to be as exquisitely formed and as delicately colored as any of its larger species. The skin upon a person's face and hands appears to be almost as rough as the hide of a rhinoceros. The different parts of flowers are so much enlarged as to exhibit varied attractions which only infinite skill could have planned and executed. Hence the Magnifier should be reckoned as an indispensable pocket companion of every child as well as of every grown person. The magnifying powers of this instrument range from

three to ten diameters, or from nine to one hundred times the superficial surface.



# A NEW PREMIUM!

## "In a Nutshell,"

The latest and best work of  
**DR. DIO LEWIS.**

For two new subscribers to SEED-TIME AND HARVEST and \$1.00 we will send by mail a copy of this elegant new book which is retailed by the publishers at \$1.00 alone. Any present subscriber sending \$1.00 may order one copy of this popular book and two yearly subscriptions to SEED-TIME AND HARVEST to be sent to any address desired.

### -WHAT IS "IN A NUTSHELL?"

The book has just been written in compliance with the urgent solicitations of several prominent educators having a large number of youths entrusted to their care. It is an epitome of the wisdom and the observations of a whole lifetime concerning the numerous topics which most interest all who would like to stand high in the sphere in which they live. While many of the subjects treated are commonplace, such as Climate, Ventilation, Sleep, Food, Mastication, Digestion, Exercise, Cold Baths, Building a Brain, Longevity, Quintessence of the Blood, etc., etc., there is not a paragraph in the book which is one bit stupid or uninteresting. Several copiously illustrated chapters upon "Curious Fashions" constitute an invaluable feature of the work. Many of the distortions of the savage, as well as of the civilizee, are fully exposed; and the whole subject is treated in a new light. The hideousness of some of our prevailing fashions are so graphically portrayed that every sensible reader must henceforth look with pity, rather than pride, upon their crippled monstrosities. The book fervently appeals to our youth for reform; and it is believed that parents will eagerly seize upon this opportunity to help their children. It contains interesting and vital facts, the knowledge of which is worth a thousand times the price of the book.

### -WHAT OUR MOST DISTINGUISHED EDUCATORS SAY ABOUT "IN A NUTSHELL."

Inasmuch as the work had been written at the suggestion of several prominent educators, the publishers, before issuing it in the regular bound form, mailed "Advance Sheets" to heads of our most prominent institutions of learning for the purpose of ascertaining whether it could be improved by their suggestions and criticisms. Hundreds of college presidents, and others, have responded in long letters of their heartiest praise. These letters may be fairly epitomized by the following phrases:

- "Very valuable."—*President Porter, Yale College.*
- "Most admirable."—*President Cattell, Lafayette College.*
- "Clear, common sense."—*President Patton, Howard University.*
- "Cannot fail to be useful."—*President Fairchild, Oberlin College.*
- "The points are in just the form to arrest attention and do good."—*Pres. Herrick, Pacific University.*
- "Will give evidence of my approval by seeing that copies are laid before all our students."—*Pres. Moore, Earlham College.*
- "It contains more wisdom about health than can be found elsewhere in many huge volumes."—*Pres. Miller, Mt. Morris College.*
- "The work is adapted to all mankind. Shall send an order as soon as published."—*Pres. Spinner, Burlington College.*
- "Just the tocsin of warning which this impetuous age needs. Cannot begin to read without a desire to finish, and cannot finish without a strong desire to act."—*Pres. Delong, Lebanon Valley College.*
- "If every family had a copy there would be much less suffering and vulgarity."—*Principal Becker, Hinman's Business College.*
- "What can they be furnished for by the hundred?"—*Prin. Rusk, School of Elocution.*
- "It is packed with good hits in plain, attractive form."—*Pres. Payne, Wesleyan University.*
- "As was to be expected from such a source, thy excellent work is crowded with most valuable practical suggest ons."—*Pres. Magill, Swarthmore College.*
- "Why do you address it especially to college students? It seems equally applicable to all intelligent people."—*Prof. Hitchcock, Amherst College.*
- "Practical and to the point."—*Pres. Merrell, Ripon College.*
- "It would be a noble colporteur work to go from college to college distributing this little book to students."—*Prin. Warner, Business College, Akron.*
- "The more I read it the more I am convinced that it ought to be circulated by the hundred thousand."—*Pres. Hooper, Rust University.*
- "The book will be invaluable not only to students, but to everybody who shall read it. I think I shall put it in the hands of our teachers for daily use in their classes."—*Supt. Hutzler, (Newark, O).*
- "It is fitted to seize the attention of students and guard them against abuses. Dr. Lewis has done a real service to the colleges of the country by preparing it, and by making it so short and terse."—*Pres. Magoun, Iowa College.*
- "This work alone would be a worthy monument of a useful life."—*Pres. Mayhey, Detroit.*
- "Its style beautifully illustrates the power of rhetoric, making the book a useful model for classes in English literature."—*Pres. Murjee, Howard College, Ala.*
- "I have read thousands of pages of medical works in search of the very information here given 'In a Nutshell' without being benefited as I have been by this work. It is a gem."—*Rev. Livingston Smith.*
- "No one can fail to understand this little book. It should be in the hands of all schools and families that the young may learn to take care of that beautiful temple, the human body."—*Supt. Band, Connecticut Industrial School for Girls.*
- "At what rate could you furnish one hundred copies for distribution?"—*Prof. Weidner, Augustana Theological Seminary.*
- "'In a Nutshell' is the best thing of the kind that ever came to my notice. The style is unique, fascinating and vigorous, and the matter deeply interesting and important. It should be in the hands of every young person in Christendom. Thus disseminated, carefully read and faithfully practiced, the benefits that would accrue to the race are incalculable."—*Horace E. Smith, Dean, Albany Law School.*
- "If the habits of our children were formed upon his counsels, health and longevity would largely take the place of physical weakness and premature death. Having observed these rules, I can testify to their benign efficiency. I am just entering my seventy-eighth year with a sense of vigor rare with me forty years ago."—*Pres. Thompson, Theological Institute, Hartford, Ct.*
- "Warnings are given with great caution, and without exciting those propensities which it aims to control."—*Supt. Drury.*
- "One hardly knows which to admire most, the perfect English or the striking presentation of the subject by this the most eminent sanitarian in the United States."—*Prof. Young, Hartford, Ct.*
- "I wish it were possible to put a copy of this little volume into the hands of every student—boy and girl—in our land. I do not see how the book could be improved."—*Supt. Ellis, Rochester, N. Y.*
- "If students would act upon Dr. Lewis' suggestions their work would increase in quantity and improve in quality."—*Pres. Schuyler, Baldwin University.*
- "This little book confirms my previous high estimate of the author."—*Pres. Quimby, New Hampshire Female College.*
- "My aged mother, now in her 90th year, was so fascinated with it that she read it through at one sitting. Each morning after devotional exercises I read a chapter of it to our assembled students."—*Prin. Allen, West Newton Preparatory School.*
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1883.

Seed-Time and Harvest,

AUGUST.



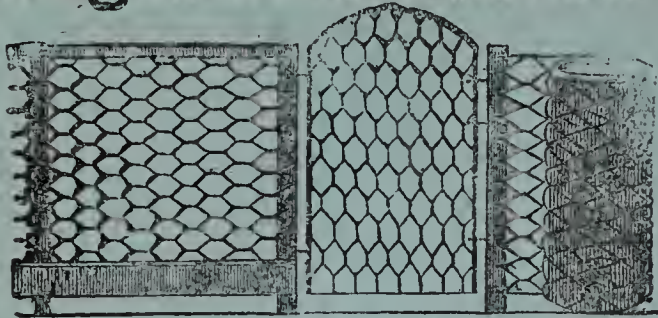
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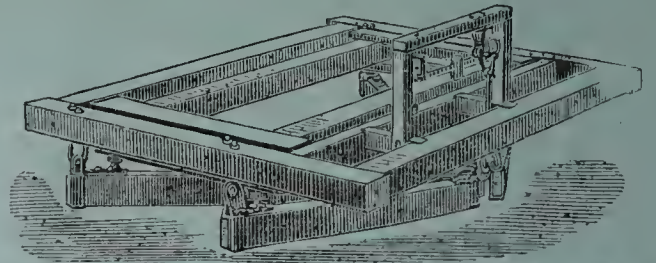
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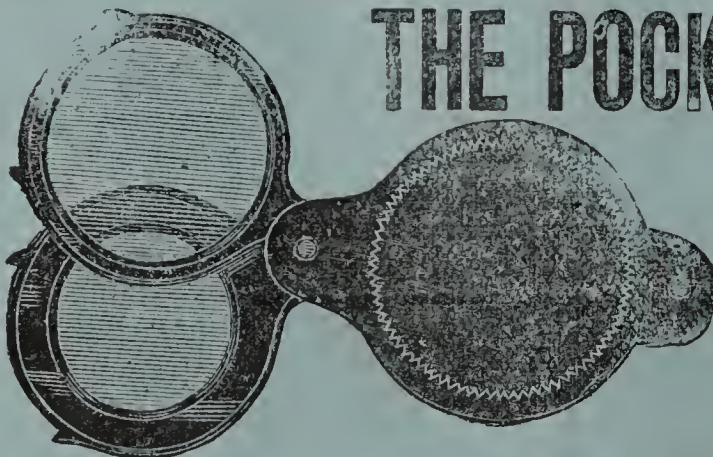
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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

— FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT. —

VOL. 4.

AUGUST, 1883.

NO. VIII.



THE HARDY AZALEA.



## JIMMY'S LECTURE.

"Jimmy, throw that jug into the pig pen. Smash it first, and be sure you don't taste a drop of the vile stuff," said an anxious-looking woman as she handed her little son the brown jug which she had just found hidden in the shed.

"Father won't like it," began the boy, eying the ugly thing with a look of fear and hate; for it made mother miserable, and father a brute.

"I said I'd make way with it the next time I found it, and I will! It's full, and I don't feel as if I could live through another dreadful time like the last. If we put it out of sight, maybe father will keep sober for another month. Go quick, before he comes home." And the poor woman pushed the boy to the door as if she could not wait a minute till the curse of her life was destroyed.

Glad to comfort her, and have the fun of smashing anything, Jimmie ran off, and giving the jug a good bang on the post, let the whisky run where it would as he flung the pieces into the pig-pen, and went back to his work.

He was only eleven; but he struggled manfully with the old saw, and the tough apple-tree boughs he had collected for fuel. It was father's work, but he neglected it, and Jimmie wouldn't see mother suffer from cold, so he trimmed the trees, and did his best to keep the fire going. He had to stop often to rest, and in these pauses he talked to himself, having no other company.

Not long after the destruction of the jug, he heard a great commotion in the pen, and, looking in, saw the two pigs capering about in a curious way. They ran up and down, squealed, skipped, and bumped against one another as if they didn't see straight, and had no control of their legs.

Jimmie was much amused for a few minutes, but, when one staggered to the trough, and began to lap something there, and the other tumbled down and could not get up, he understood the cause of these antics.

"Oh, dear! I let the whisky run into the

trough, and those bad pigs are tipsy! What shall I do?"

He watched them for an instant, and then in a sober tone, as he shook his head sadly, "That's just the way father does, lively first, then cross, then stupid. They don't look funny to me now, and I'm so sorry for 'em. They will be dreadfully ashamed when they get sober. I'm glad there isn't any wife and little son to be scared and mortified and sorry over 'em. I'll talk to 'em and tell 'em what the man said in the temperance lecture we went to last night. Maybe it will do 'em good."

So Jimmie mounted the chopping block close by, and repeated all he could remember, making a funny jumble, but being very much in earnest, quite unconscious that he had another hearer beside the pigs:

"My friends, rum is an awful thing. People who drink are slaves. They are worse than dumb beasts that don't drink. (Yes, they do; but that was my fault.) Half the sin and sorrow in the world come from rum. Men waste their money, neglect their families, break their wives' hearts, and set a bad example to their children. People better die than drink, and make brutes of themselves. Lots of money is wasted. Folks kill other folks when they are drunk, and steal, and lie, and do every bad thing. Now my friends, (I mean you pigs), turn from your evil ways, and drink no more. (I'll smash the jug behind the barn next time, where even the hen's can't find it.) Rise in your manhood, and free yourselves from this awful slavery. (They are both fast asleep, but I'll help 'em up when they wake.) Lead better lives, and don't let those who love you suffer shame and fear and grief for your weakness. (I do love you old fellows, and I am sorry to see you make such pigs of yourselves.) Here is the pledge; come and sign it. Keep it all your lives, and be good men, (I mean pigs.)"

Here Jimmy smiled, but he meant what he said, and pulling out of his pocket a piece of paper and a pencil, he jumped down to use the block as a desk, saying, as he wrote in big letters, "They shall have a pledge, and they can make a mark as people do who can't write. I'll make it



short, so they can understand it, and I know they will keep it, for I shall help them."

So busy was the boy with his work that he never saw a man steal from behind the pen where he had been listening and laughing at Jimmy's lecture, till something seemed to change the smiles to tears, for, as he peeped over the lad's shoulder, he saw how worn the little jacket was, how bruised and blistered the poor hands were with too hard work, and how he stood on one foot, because his toes were out of the old shoes.

A month's wages were in the man's pocket, and he meant to spend them in more whisky when his jug was empty. Now the money seemed all too little to make his son tidy, and he couldn't bear to think how much he had wasted on low pleasures that made a worse brute of him than the pigs.

"There!" said Jimmy, "I guess that will do. We, Tom and Jerry, do solemnly promise never to touch, taste or handle anything that can make us drunk."

"Now for the names. Which shall mark first?"

"I will!" said the man, startling Jimmy so much that he nearly tumbled into the pen as he was climbing up. The paper fluttered down inside, and both forgot it as the boy looked up at the man, saying, half ashamed, half glad,—

"Why, father, did you hear me? I was only sort of playing."

"I am in earnest, for your lecture was a good one; and I am not going to be a beast any longer. Here's money for new shoes and jacket. Give me the saw. I'll do my own work now, and you go tell mother what I say."

Jimmy was about to race away, when the sight of Tom and Jerry eating up the paper made him clap his hands exclaiming joyfully,—

"They've taken the pledge really and truly. I'm so glad!"

It was impossible to help laughing; but the man was very sober again as he said slowly, with his hand on Jimmy's shoulder,—

"You shall write another for me. I'll

sign it, and keep it too, if you will help me, my little son."

"I will, father, I will!" cried Jimmy with all his happy heart, and then ran in to carry the good news to mother.

That was his first lecture, but not his last; for he delivered many more when he was a man, because the work begun that day prospered well, and those pledges were truly kept.—*Louisa M. Alcott, in The Press.*

### Why Eve Didn't Need a Girl.

A lady writer in one of our exchanges furnishes some of the reasons why Eve did not keep a hired girl. She says: There has been a great deal said about the faults of women and why they need so much waiting on. Some one (a man of course) has the presumption to ask, "Why, when Eve was manufactured out of a spare rib, a servant was not made at the same time to wait on her?" She didn't need any. A bright writer has said: Adam never came whining to Eve with a ragged stocking to be darned, buttons to be sewed on, gloves to be mended "right away—quick, now?" He never read the newspapers until the sun went down behind the palm trees, and he stretching himself, yawned out, "Is supper ready yet, my dear?" Not he. He made the fire, and hung the kettle over it himself, we'll venture, and pulled the radishes, peeled the potatoes, and did everything else he ought to do. He milked the cows, and fed the chickens and looked after the pigs himself, and never brought home half a dozen friends to dinner when Eve hadn't any fresh pomegranates. He never stayed out till eleven o'clock at night and then scolded because Eve was sitting up and crying inside the gates. He never loafed around corner groceries while Eve was rocking little Cain's cradle at home. He never called Eve up from the cellar to put away his slippers. Not he. When he took them off he put them under the fig tree beside his Sunday boots. In short he did not think she was especially created for the purpose of waiting upon him, and he wasn't under the impression that it disgraced a man to lighten a wife's cares a little. That's the reason Eve did not need a hired girl, and with it is the reason her descendants did.—*Ex.*



## RING DEM CHARMIN' BELLS.

As Sung by Uncle Remus.

Oh, sinner! don't take yo' time,  
 Dar's a road we all mus' clime—  
 Hit's a road full er faintin's spells;  
 De way mighty iong,  
 Bur soul git strong  
 W'en she year dem charmin' bells.  
 Oh, sing, my soul!  
 Oh, ring en roll!  
 Ring-a dem charmin' bells!

De road mighty full er dus',  
 But sinner kin quench his thus'  
 By drinking fum de Jacob wells;  
 En de soul git strong  
 W'en she year dat song—  
 Oh, ring dem charmin' bells!  
 Oh, Jerdun, roll!  
 Oh, sing, my soul!  
 Ring-a dem charmin' bells!

Oh, sufferin' sinner, rise,  
 Lif' up dem 'umbel eyes,  
 Lissen wa't de Speret tells;  
 Oh, do git strong  
 En sing dat song—  
 I year dem charmin' bells!  
 Oh, sing, my soul!  
 Oh, ring en roll!  
 Ring-a dem charmin' bells!

W'en de night git dark and col',  
 En you year dat Jerdun roll,  
 Dat de place whar John befels;  
 Oh, soul, git strong,  
 En sing dat song—  
 Oh, ring dem charmin' bells!  
 Oh, sing, my soul,  
 Oh, ring en roll!  
 Ring-a dem charmin' bells!

My Lord, be done onroll  
 Dat shinin' clof uv gol',  
 En de heav'ms dey sinks and swells!  
 Oh, soul, sing strong!  
 Des shout dat song—  
 Oh, ring dem charmin' bells!  
 Oh, sing, my soul!  
 Oh, ring en roll!  
 Ring-a dem charmin' bells!

—Atlanta Constitution.

## PRUNING.

BY W. D. BOYNTON.

There are almost as many methods of pruning as there are practical horticulturists. Some prune much, some little and some not at all. Some prune at one season, some at another, and some prune at any and all times. Many wait until the top has become fully developed, others do all their

pruning while the tree is young, and still other classes prune a little each year at all stages of growth. As to the form of top to which a tree should be pruned, the variety of ideas and their execution is almost infinite.

Upon this question, as upon most others, a medium course should be adopted, so that the evil effects of either extreme may be avoided, and still retain the good points of each policy.

The time of pruning should first be considered, and the most popular plan at present is to prune trees just after they have reached the stage of full foliage, say the last of June or first of July. By so doing, the tree has an opportunity to recover from the effects of the mutilation before the winter sets in, and upon the other hand it is better than extremely early pruning, for the reason that the rising sap is not obstructed in its upward course or thrown out of its natural way.

As to the particular period of growth in which a tree should be pruned, the happy medium may again be profitably adopted. By this I wish to be understood that moderate training and pruning should commence with the first year's growth and be kept up until the tree is several years old, or rather until it has attained its natural growth, after which it will need very little attention in the way of pruning. I do a large share of my pruning with the pocket knife, and by having a definite idea as to what I want in the way of a top, and then working to that plan every year, I find the work of pruning comparatively light. A low compact top is probably the best in this country, as the tree is then in better shape to protect itself against the cold weather and sudden thaws of winter; but the top should not be left too thick, for the fruit will be small and slow to ripen. In pruning, the cutting should be done mostly from the inside of the top, the center twigs of the large limbs being left in order to broaden the top. This plan should be followed, especially where the limbs are inclined to run up straight, as is often the case. I very often tie, or weight such limbs down until they attain a more horizontal position.



All such work must be done while the tree is quite young. By early and constant pruning, only, can a symmetrical top be obtained. That is, symmetrical in the sight of the practical horticulturist, whose ideas of form do not always agree with Nature's ways.

---

### How to Keep from Drowning.

---

The human body weighs a pound in the water and a single chair will carry two grown persons; that is, it will keep the head above water, which is all that is necessary when it is a question of life or death. One finger placed upon a stool or chair, or a small box or piece of board, will easily keep the head above water, while the two feet and the other hand may be used as paddles to propel the body toward the shore. It is not at all necessary to know how to swim to keep from drowning in this way. A little experience of the buoyant power of the water, and faith in it, is all that is required. We have seen a small boy, who could not swim a stroke, propel himself back and forth across a wide, deep pond by means of a board that would not sustain five pounds weight. Children and all others should have practice in the sustaining power of water. In nine cases out of ten the knowledge that what will support a pound weight is all that is necessary to keep one's head above water will serve better emergencies than the greatest expertness as a swimmer. A person unfamiliar with the buoyant power of water will naturally try to climb to the top of the floating object on which he tries to save himself. If it is large enough that is all right. But generally it is not large enough and half of a struggling group is often drowned in the desperate scramble of a life and death struggle to climb on top of a piece of wreck or other floating object, not half large enough to keep them all entirely above water. This often happens when pleasure boats capsize. All immediately want to get out of the water on top of the overturned or half-filled boat, and all are drowned except those whom the wrecked craft will wholly bear up. If they would sim-

ply trust the water to sustain ninety-nine hundredths of the weight of their bodies, and the disabled boat the other hundredth, they might be saved under most circumstances. An overturned or water-filled wooden boat will sustain more people in this way than it will carry. It would keep the heads of as many people above water as could get their hands on the gunwale. These are simple facts, easily learned, and may some day save your life.

---

### Hardy Azaleas.

(SEE FRONTISPIECE.)

Prominent among the hardy shrubs for lawn decoration are the Rhododendrons and Azaleas which are closely allied. Our illustration shows a variety called *Azalea Mollis* which has long been cultivated in Japan and is now being introduced into Europe and our own country, in both of which it proves entirely hardy. It is said to grow readily from seed and the seedlings blossom profusely when but three or four years old. They blossom in early spring at the time they are bursting into leaf, and are well adapted to growing under the partial shade of large trees. They should be sheltered from the north winds and mulched with leaves and litter during winter. We are indebted to Mr. Fred W. Kelsey and the *Rural New-Yorker*, of New York, for the fine cut which we show of this beautiful flowering shrub.

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### EVENING AT THE FARM.

---

Down from the hills where the fresh breeze is blowing,  
 Rich with the scent of the resinous pine;  
 Up from low pastures where blue flag is growing,  
 Where, 'mong the green grasses, brooklets entwined,  
 Filled with the grasses, intent on home-going,  
 Slow-footed cows are all hasting in line,  
 Filling the air with their milking-time lowing,  
 While boldly their forms the last sun rays define.  
 Afar in the west the sun lies a-dying,  
 Gorgeous his couch as Aurora's gay bed;  
 Homeward in haste the late swallows are flying,  
 Dark float their forms 'gainst the sky's fading red.  
 Deep in the wood the sad night birds are crying,  
 Wails for the day that has past and is dead;  
 High in the east where the faint clouds are lying,  
 Cynthia glides on her way overhead.—*Selected.*



## FAME.

"I don't wish to discourage you, but lately I've been  
 filled  
 With certain strong misgiving, son, that somehow  
 won't be stilled;  
 There's something tells me plain as words, that you,  
 with all your wit,  
 Have erred in marking out your course, and you'll  
 repent of it.  
 "The time will come when you will sigh 'had I but  
 only known  
 What I do now, the good, old farm, with all its hills  
 and stone,  
 Would not have driven me away to find, when hope  
 is dead,  
 That Fame does not bestow her wreath on any sort  
 of head."  
 "I'm talking plainly, that I know, but, Reuben, mind  
 you this,  
 That Fame's a far off target that a million marksmen  
 miss,  
 Then, some fine day a shot is heard that rings  
 throughout the land,  
 And Genius pops the bull's eye, square, with steady  
 eye and hand.  
 "You may turn out a genius, Rube; I really hope  
 you will;  
 You know Fame's temple crowns the top of an enor-  
 mous hill,  
 And tens of thousands bound that way, with resolu-  
 tion stiff,  
 Have found their way completely blocked by a stu-  
 pendous *IF*."  
 "Now, Reuben, when you reach that 'IF' you'll show  
 good judgment, son,  
 By striking 'cross lots for the farm and home here on  
 a run;  
 Stay here and toil as I have done, and you may get  
 to be  
 A Deacon in the Church, perhaps, or, may be, a  
 School Trustee.  
 "All that be blawed!" Well, go your way, you'll  
 have my earnest prayers;  
 We'll always keep in order, son, your cozy room up-  
 stairs.  
 For you may yet return, convinced that wreaths of  
 Fame are rare,  
 And that your old straw-hat best suits the color of  
 your hair."

---

 The Vacation Month.
 

---

YET there are good things about August. The schools are shut up, the everlasting process of education is eased off, a chance is given for the mind to stretch itself and grow a little naturally. People forget that the mind needs those periods of semi-doze in which to ripen. We understand all about the convolutions and the gray matter of the brain, and know just

where the memory cells are, and where lie the coils of imagination and ideality, can put our finger on the spot that, if excited, makes a man willing to pay his debts, and on the spot where exists the impulse to forgive our debtors if our creditors will forgive us, but no one can tell how it is that if a thought is dropped into the brain overnight, and left to simmer there, and, indeed, remains for a time wholly unheeded, it will be found, when again called up, to have blossomed into a sermon, or an essay, or a magazine paper worth ten dollars a page. The little idea seems to be yeast, and that furnished, the brain will go on unconsciously, and work out the rest itself. Perhaps August, which seems so stupid, is the yeast month of the year, and perhaps this is the reason that so many authors find September the most fruitful month of the year.

August is also lawyers' vacation, and their clients have a rest, and an opportunity to settle up their differences in an amicable way. When the lawyers quit the ship it is a sign that everybody else ought to go—to be off to the Rockies, to the North woods, to Norway, to the rocks by the sounding sea, if there is by that time a rock anywhere on our thousands of miles of coasts that has not a young lady sitting on it, with a spread parasol and a novel in her hand, and still a more interesting work of nature and art at her feet, talking to her languidly about friendship, and how you can know if two people are suited to each other, don't you know. It is the harvest month of the novelist, for then, if ever, one wants a novel,—to put in the pocket in the woods, or to carry down to the beach, or to leave lying around with the split zephyr. People will buy novels in August, if they can not borrow them, and if they are in cheap editions. It is a nice holiday, August, just because it has no vitality in it. Pity it can not be more of a holiday to more people. For the shops ought to be shut, and the banks, and the life-insurance men ought to go off into the wilderness with the lightning-rod men, and the canvasser ought to cease from canvassing, and the weary be at rest. It would be a good thing if the politicians would clam-bake and barbecue, and make no



speeches; they wouldn't make any if the speeches were not reported. It might be a good thing if all the newspapers would suspend. Then the world would have nothing to talk about, and perhaps would reposefully grow in grace and sanity.—*Charles Dudley Warner, in Harper's Magazine for August.*

### Some Things I Have Learned This Year.

That tomato plants in the same hill with squashes, cucumbers, and pumpkins will not keep off the bugs.

That an application of air-slacked lime will not keep bugs away from vines, cabbage plants, radishes, turnips, or egg plants. That saltpetre water will not accomplish anything in that line. That coal oil for that purpose is also a failure.

That a good application, repeated three times, of reasonably strong liquid manure does well, and that an application of fine sulphur sprinkled over the plants and vines will greatly help in getting rid of these pests.

That a reasonable application of wood ashes is very beneficial in a garden. But that it is comparatively an easy matter to make the application too strong, especially if the ashes are unleached.

That with a good, clean, rich soil and early sowing and good cultivation it is possible to raise fine onions from seed in this section.

That it is useless to plant sweet corn before the ground gets warm as well as the weather, as corn planted three weeks later will come to maturity just as quick with the same soil and cultivation.

That there is a very decided advantage in good, sound, quick germinating seed corn, and this will be evident from the time the corn begins to sprout until it matures.

That peas will not do as well on new, rich ground as on old.

That I can raise more and better Lima beans by planting in a row, the plants six inches apart, than in hills with three or four beans to a hill.

That it is not profitable to use oat straw to cover potatoes.

That it is very hard to cultivate a crop of sorghum among a crop of crab grass.

That it pays to soak sorghum seed twenty-four hours in water before planting.

That tomato vines will grow faster and blossom quicker if a little manure is worked into the hills than if set out without.—*N. J. Shepherd, in Farm and Garden.*

### How to Can Fruit.

Glass and stone jars are the only kind to use—for the acids of fruit will not be healthful if preserved in tin—and they can be purchased very cheaply. Nearly all the fruits retain their flavor better if they are steamed instead of stewed, as they are not so much broken up. To four pounds of fruit take one pound of lump sugar, as it is less subject to adulteration. Fill the jars within two inches of the top with the fruit; melt the sugar in a very little water and turn it boiling hot upon the fruit; place the jars in a pan of boiling water, and let them steam about ten minutes, or until the fruit, by expulsion of the cold air, has been forced to the top of the jar; put the cover on at once, with a cloth, so as not to burn your hands, and screw it down tightly while in boiling water; set the jars on the table to cool, and if any bubbles appear in them take off the covers and boil again until the fruit is again forced upwards. Fruit canned in this manner will keep its flavor perfectly.

### Medical Uses of Eggs.

For burns or scalds, nothing is more soothing than the white of an egg, which may be poured over the wound. It is softer, as a varnish for a burn, than collodion, and being always at hand can be applied immediately. It is also more cooling than the "sweet oil and cotton" which was formerly supposed to be the surest application to allay the smarting pain. It is the contact with the air which gives the extreme discomfort experienced from ordinary accidents of this kind; and anything which excludes air and prevents inflammation is the thing to be at once applied. The egg is





also considered one of the best remedies for dysentery. Beaten up slightly with or without sugar and swallowed, it tends by its emollient qualities to lessen the inflammation of the stomach and intestines, and by forming a transient coating on these organs to enable Nature to resume her healthful sway over the diseased body. Two or at most three eggs per day would be all that is required in ordinary cases; and since the egg is not merely medicine, but food as well, the lighter the diet otherwise and the quieter the patient is kept, the more certain and rapid is the recovery.

—◆—  
This is a curious world, and strange it is how few of us get out of it alive.

### The Newer Strawberries.

As we have frequently stated in these columns the best time for setting strawberry plants, in our opinion, is the month of May. Good layer plants of the previous summer's growth if set in spring and well cultivated during the ensuing summer, will bear a maximum crop the following June. The greatest objection to this plan is that there are so many things to be done in May that the season frequently passes before all that is intended and desired is accomplished. The fruiting season then comes on and while enjoying the luscious berries we are filled with regret that there has been no provision made for another year. The next



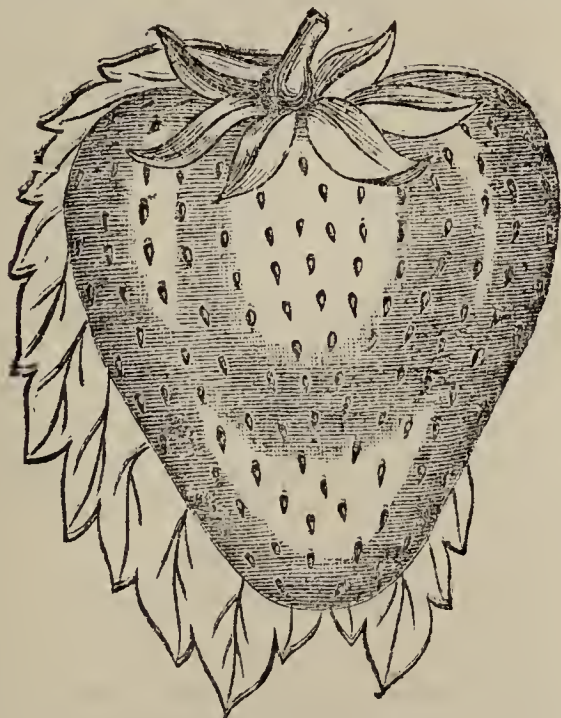
best thing to be done by those who find themselves in this position. is to set pot-grown plants, or early layers of the present season's growth in August and September. These if carefully attended will give a fair crop of berries the following season.



BIDWELL.

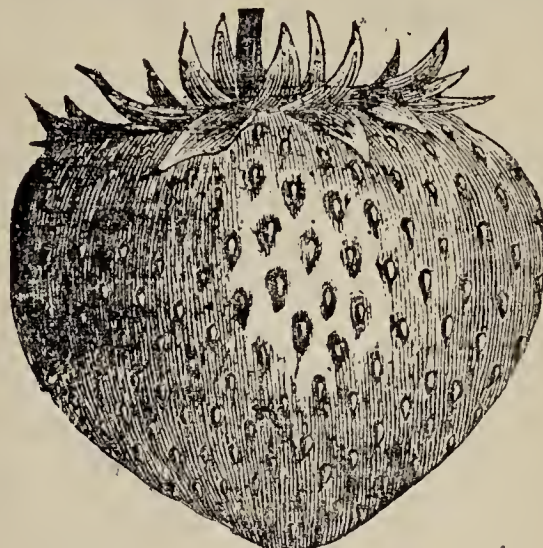
Those also who wish to propagate a stock of plants of some new variety for spring setting can do so by planting now.

So many new varieties are placed before the public annually that it is hard for a novice to select the right kind without con-



MOUNT VERNON.

siderable experimenting on his own part, or carefully noting the experience of those who have experimented with the same purpose in view. As a help to all who are interested we append a few notes both from our own observations and others whose



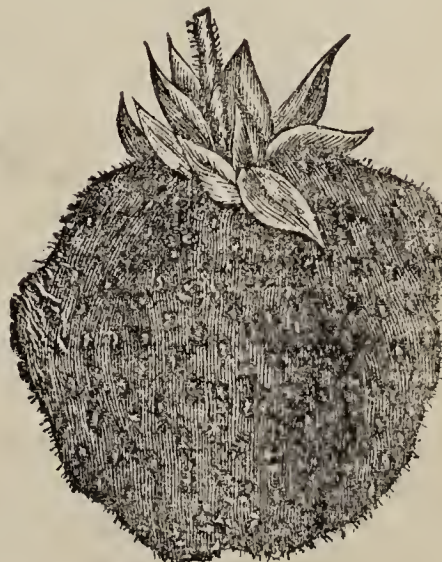
CUMBERLAND TRIUMPH.

opinions we think worth consulting.



SHARPLESS.

Among the best of those of one or more year's introduction, which should be retained in every collection, we will first name the *Bidwell*. This originated with Mr. Benj. Hathway, of Michigan, a gentleman not unknown to fame as the author of "Art Life" and other volumes of poetical  
(Continued to page 12.)



LIC BOL.



### Dr. Talmage on Starting Newspapers.

Rev. Mr. Talmage, of the Brooklyn Tabernacle, preached last Sunday on Newspapers, and in course of the sermon he said;

I think I could arouse your appreciation of this great blessing if I told you the money, the brain, the exasperation, the anxieties, the losses, the wear and tear of heart strings involved in the publication of a newspaper. On the theory abroad in the world that anybody can make one, inexperienced capitalists every year are entering the lists, and it is a simple statistic that there is an average of a dead newspaper every day of the year. Generally three or four fortunes are swallowed up before a newspaper is established. The large papers swallow up the small papers—one whale taking down 50 minnows. Although we have over 7000 dailies and weeklies in the United States and the Canadas, only thirty-six of them are a half century old. The average of newspaper life is five years. Most of them die of cholera infantum. [Laughter.] It is high time it were understood that the most successful way of sinking a fortune and keeping it sunk is to start a newspaper. Almost every intelligent man during his life is smitten with the newspaper mania; start a newspaper or have stock in one he must or die. This is often the process: A literary man has an idea, moral, social, political, or religious, which he wishes to ventilate. He has no money of his own—literary men seldom have—but he talks his idea among confidential friends, and forthwith they are inflamed with the idea, and they buy type and press and rent a composing room, and engage a corps of editors, and then a prospectus, which threatens to conquer everything, goes forth, and then the first issue is thrown upon the attention of an admiring world. After a few weeks or months, a plain stockholder finds that there is no especial revolution, and that neither the sun nor the moon has stood still, and that the world still goes on lying and cheating and stealing just as it did before the first issue of

the *New York Thunderer* or the *Universal Gazette* or the *Hallelujah Advocate*. Forthwith the plain stockholder wants to sell his stock, but nobody wants to buy it, and others disgusted with the investment want to sell their stock, and an enormous bill of the paper factory rolls in like an avalanche, and the printers refuse to work until they have their back pay, and the subscribers wonder why their paper does not come. Let me tell you, oh, man, that if you have an idea on any moral, social, political or religious subject you had better charge on the world through the columns already established. Do not take the idea so prevalent that when a man can do nothing else he can edit a newspaper. If you cannot climb the hill back of your house you had better not try the sides of the Matterhorn; if you cannot navigate a sloop up the North river you had better not try to engineer the Great Eastern over to Liverpool. To publish a newspaper requires the skill, the precision, the vigilance, the strategy, the boldness of a commander-in-chief; to edit a newspaper one needs to be a statesman, an essayist, a geographer a statistician, and, so far as all acquisition is concerned, encyclopedic. To man and to propel a newspaper requires more qualities than any other business on earth. I say this to save men from bankruptcy. If you feel called to start or publish a newspaper, take it for granted you are threatened with softening of the brain; throw your pocketbook into your wife's lap and rush up to Bloomingdale Asylum and surrender yourself before you do something desperate. Meanwhile let the dead newspapers be carried out to their burial week by week, and let the newspapers that live give your obituary.

### Dr. John A. Warder.

As I read in a Philadelphia paper last evening, an announcement of the death of Dr. Warder of Ohio, my mind reverted to many pleasant memories of that good man. My acquaintance with him was by no means intimate, but it was of a character to reveal his extreme kindness and thoughtfulness, which, in a man whose life was crowded



with work as was his, was very unusual. Several years ago, when I was quite a young girl, and going alone to Kansas, by way of Cincinnati, I found upon my arrival at a hotel in that city, that Dr. Warder, of whom I had heard Mr. Charles D. Bragdon, of the *Rural New Yorker*, often speak, had called several times to inquire if I had arrived. Mr. Bragdon with his usual kindly foresight had written to Dr. Warder, asking him to kindly look after my welfare during my stay in Cincinnati. It was in the month of July, and the weather was so intensely hot that, upon the following day, I was almost prostrated by the heat, when who should call but Dr. Warder, and after the first greeting was over, he immediately said in his paternal way, "Now my child, I am going to take you home with me at once; this hot city is no place for you." The transition from the city to his beautiful home at North Bend, on the Ohio River, was the most grateful possible, and for several days I was the recipient of a hospitality most cordial, refined, and replete with interest. Each day something was planned for my pleasure, and I have never failed to look back upon that visit with unabated surprise that Dr. Warder and his family, whose hospitalities and attention must ever have been greatly exercised toward a large circle of friends, should have accorded to me, a stranger, and one to whom they could feel under no obligations whatever, such a generous and altogether exceptional kindness. I later renewed my acquaintance with Dr. Warder and his daughter, at the World's Fair at Vienna, to which he was accredited as Commissioner, and there his kindness and thoughtful help were as generously and courteously extended as before—all of which I remember with the liveliest gratitude.

Dr. Warder's home at North Bend was delightfully situated on an eminence in the midst of a large farm. I remember well one peculiarity of the house, its generous amount of room on the ground floor and the unusual number of outside doors. His sons, who assisted in the work of the farm, had immediate access to their rooms from without, which I thought a great convenience. There was a large tree near the house, under which the family sat, and which served for

the Summer sitting- and reception-room,—close, clean sward under the feet and a charming range of landscape for the eyes. The walls of the Doctor's library were lined with books, and in the middle of the room stood a large writing table. The housekeeping was ordered perfectly with a refined taste and quietness, altogether unusual. Dr. Warder was devoted to his family of sons and daughters, then mostly grown; and to his wife, he was passionately attached. However great his love may have been for her in his youth, it knew no abatement thereafter, and no one, I think, could know him without discovering the fact that the object of his tenderest care and affection, was his wife.

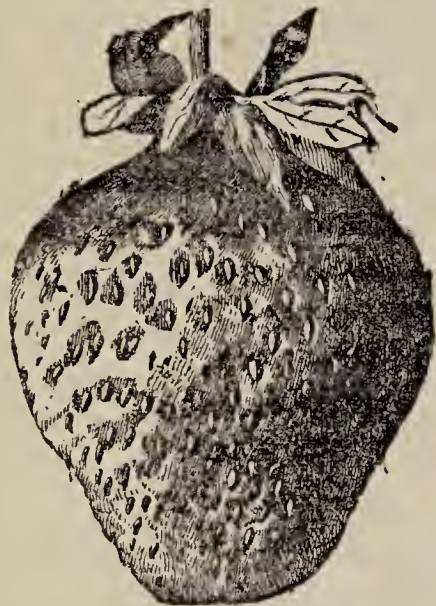
There was much in Dr. Warder's nature, that was peculiarly delicate and rare. As a physician, he instinctively thought of, and administered to, the needs of all about him. His love for trees and flowers was thoroughly genuine. I think I never saw him without a flower in his button-hole. At the time of my sojourn at his house, he was interested in a locust grove he had planted for timber, to be used, I think, for posts. The quick and easy growth of locust trees, and the excellence of the wood for certain purposes, in his estimation, made their cultivation very profitable. During his stay at Vienna, he especially devoted himself to the methods of forestry in vogue in Europe. As a student of trees, he has, as is very well known, long been, perhaps, the highest authority in the United States. The work of his life has been a very useful one, as he united to the practical vocation of agriculture a thoroughly scientific mind, which means a very great deal.

Dr. Warder was tall and slight in figure, and there was nothing in his face or appearance that would distinguish him to the casual observer as a man of eminence. He was extremely well-bred and without being in the slightest degree polite to excess, he was so thorough a gentleman in his manners and habits, as to have been such from nature and not from training. He had a woman's delicacy joined to a man's manliness. Although dead at the age of 72 years, he must have passed away in full mental health and activity.—*Mary Wager-Fisher, in Rural New-Yorker.*



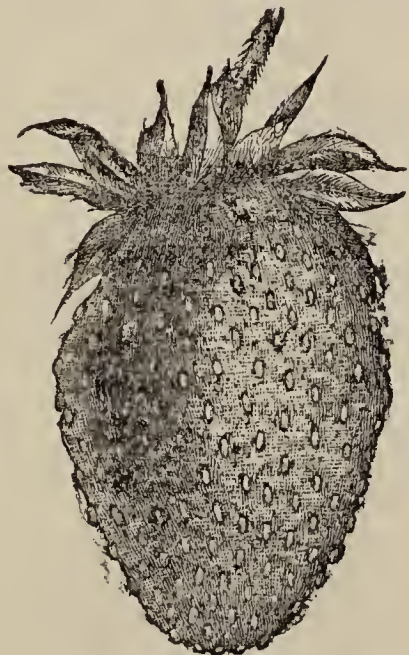
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and literary treasures. It was brought to the notice of the public by another world renowned author, the Rev. E. P. Roe. As a berry for home consumption it probably has few superiors, but when the weather is



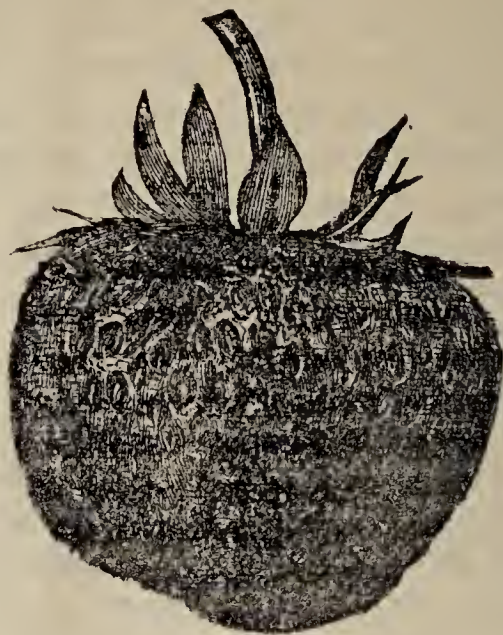
GIENDALE.

unfavorable it sometimeg becomes too soft for shipping to a distant market. The *Mount Vernon* possesses many fine properties. It is large, of handsome color, and of superior flavor, but it also lacks firmness for market. The *Cumberland Triumph* has triumphantly stood the test of some ten years, and during all of this time has



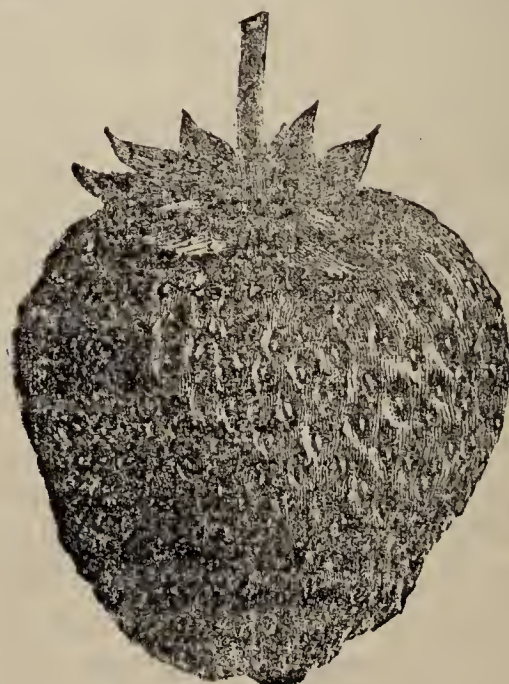
LONGFELLOW.

been steadily gaining ground in the estimation of our best growers, and that without any pushing in particular on the part of interested propagators. The *Sharpless* is one of the largest berries grown, and to our taste one of the best to eat from the vine. It must hold a prominent place in



MANCHESTER.

family garden collections for many years to come. The *Glendale* is one among the few profitable market berries, remaining exceptionally firm and producing abundantly until very late in the season. In quality it is quite acid and not good enough for the amateur who can grow those of higher quality. For canning it possesses superior qualities. One of the best, if not the most profitable varieties yet known for market is the *Longfellow*. In a collection of twenty or more of the most popular varieties which the writer visited this season this was more highly esteemed than any other on account of its size and productiveness, delicious quality, firmness and lateness, or rather long continued bearing qualities, superb specimens remaining long after many other kinds were entirely gone. Few varieties receive such universal en-



JAMES VICK.



dorsement as that quite recent offering, the *James Vick*. As neither extremely large size or particularly fine flavor are claimed for it we judge it is destined to occupy about the same position as has for years the old and well known *Wilson*. Another berry of about the same class as the last named, which will undoubtedly prove a success as a market berry, but not famed for high quality is the *Manchester*. One other variety we recall to mind which from sterling worth is justly entitled to be kept before the public and whose portrait should have adorned these pages. We refer to the *Windsor Chief*. Few well tested sorts could be selected which would so well please all who plant it either for home or market use.

Among the introductions of 1882, it is doubtful if any has made a better record in size and quality than the *Jersey Queen*. Whether it will stand shipment as well as some of the above named is about the only question yet to be decided. If so it must be immensely popular.

Upon the newer offerings we cannot as yet venture an opinion. Our readers will have to either accept the claims of their several introducers or wait until they have been more widely tested. Among the most prominent we will mention the *Atlantic*, *Prince of Berries*, *Daniel Boone*, *Mrs. Garfield*, *Legal Tender*, *Old Iron-Clad*, *Nigh's Superb* and others, which will no doubt be offered in our advertising columns.

### "We Call Them Tramps."

A recent trip of the City of Chester of the Inman line from New York to Liverpool was enlivened by the wit of a Washington girl, who was the favorite passenger. In the same steamer was a young English snob who wore a suit of very large plaid, with a fatigue cap to match, a single eye-glass, thick-soled boots, spotted shirt and loud neck-tie. He had that exasperating drawl peculiar to English snobs.

"Aw, yaas," said he in conversation with the Washington girl, "I have seen a considerable of your country. I have been to New Yawk, Chicago, Omaha and other places, and it is a gwate cauntwy; but you

don't seem to have any gentwy in America."

"What do you call gentry?" asked the lady.

"Aw; why people you know, who don't have to do anything; people who live without work."

"Oh, yes, we have such people," answered the lady, "but we don't call them gentry."

"Aw, what do you call them, pway?"

"We call them tramps."

"Aw."—*New York Telegram*.

### AMONG OUR EXCHANGES.

THE POULTRY BULLETIN for August contains a description of a Fancier's Poultry House with two views of the same. Practical Poultry Topics, The Homing Pigeon, with fine cut, The Snipe, with cut and description, and much other matter of interest to the poultry breeder or fancier. \$1.25 per year. 62 Cortland St., N. Y.

THE WESTERN PLOWMAN for August is a fine number. W. D. Boynton, Dr. J. H. Hanaford, D. L. Evans, Jr., and others contribute to its pages, while the Editorials are practical and up to the times. Published at Moline, Ill., at 50 cents a year.

OUR YOUNG PEOPLE, a semi-monthly journal, published at Springfield, Ohio, is decidedly a fine magazine and a dollar can not be much better invested for the young people than in a year's subscription.

THE WESTERN FARM JOURNAL of Des Moines, Iowa is fully devoted to the farmers and stock growers of the prairies, and yet contains much of interest to the general reader. Monthly, \$1.00 per year.

THE TRIBUNE AND FARMER, Philadelphia, Pa., has Col. D. D. T. Moore, formerly the head of Moore's Rural New-Yorker, as Agricultural Editor, which is a sufficient guaranty of its value to the Agricultural Public. It is full of interesting matter and worthy of a hearty support. Weekly, \$1.00 per year.

HAND BOOK FOR FRUIT-GROWERS, by F. R. Elliott. Published by D. M. Dewey, Rochester, N. Y. We have been favored by the publisher with a copy of the new edition of this work. It gives the various methods of growing trees and vines, transplanting, budding, grafting and pruning, with a list of the desirable fruits, including their size, color, quality, origin, etc., the whole illustrated with quite a number of engravings. We have not had the time to give it the careful perusal that works of this kind deserve, but should judge, from a hasty examination, that it would be a good work for the novice or amateur fruit-grower. It is finely bound in cloth and contains nearly 150 well-filled pages.

### Beatty's Organs for \$35.

Special attention is called to Mayor Beatty's Parlor Organ Advertisement on our last cover page. Any of our readers who are in want of a Cabinet Organ at a reduced price should order at once from the advertisement as the time is limited to only seven days from August 25th, 1883.



### A Fight With the Bugs.

A square fight with the bugs and worms must begin early. The curculio must be met as soon as the plums and cherries are dropping their petals. He begins to sting before the calyx bursts from the fruit. While waiting for cherries he will do a vast amount of damage among apples and pears. The only remedy yet devised is to shake the trees and catch the fellows on a cloth large enough to spread under the whole tree. Then quickly get down and pick them up and crush them. They will pretend to be dead for a few moments after falling, but will be up soon and off. You must be lively. They prefer plums by all means to cherries, if there are trees enough. Trees in a chicken yard are partly protected by the bugs being devoured.

Squash bugs must next be faced. They come down in a cloud and do their work so promptly that in an hour your splendid vines are ruined. Box your hills when planted, and if the bugs then assail them, dust with white hellebore. Kerosene water may be used if special care is taken not to put into a pail of water over one teaspoonful of kerosene. This remedy is excellent for the big stink-bug that comes a little later. Saltpeter and other remedies are not of the least avail.

For rose slugs, sprinkle with water in which you have two spoonsful of hellebore and one of kerosene. Keep a pail standing for a few days to use when necessary. Whale-oil soap, and such stinking compounds should never be used. They are worse than the slug. No one can go near a rose-bush for a week after the vile stuff has been used. I would rather not have a rose. The remedy I give is absolute, and generally only one application is necessary. I have about two hundred rose-bushes which I go over in one hour, and the pest is gone for the year.

Now comes the currant worm, which must be treated precisely as the rose slug. At its first appearance give it the kerosene and hellebore water. But it must be well applied. If the worms come when the fruit is near maturity leave out the kerosene; for it sticks the hellebore to the fruit

and it might not be entirely safe. Applied earlier the rains entirely wash it off before picking time.

Kerosene oil is the general specific against almost all vermin when it can be applied. It is death to chinch bugs and a sure cure for hen lice. Apply it freely to the roosts, and pour a little into the nests. It will work more effectually than sulphur or lime, although they are valuable and effective. Kerosene is death also to potato bugs; but must be applied with care. I am using the same mixture that I use for rose slugs and currant worms—one spoonful of kerosene, two of hellebore in one sprinkling pail of water.

It is equally useful for mites and fleas that infest turnips and many varieties of vegetables and flowers. I have not tried it on aphids, but propose to do so soon, and do not doubt its efficacy.

The cabbage worm is most safely destroyed with a stick sharpened to press into the foldings of the leaves and crush the fellows. Hot water is a remedy; but it is likely to kill or spoil the cabbages. It is not safe. Hellebore and similar poisons are likely to remain in the head. The kerosene water is not sure of hitting the worms.

Worms' nests on the apple trees and lawn trees are best killed when killed early. Those that cannot be reached by hand may be easily burned out with a roll of cotton tied tightly or wired on the end of a pole and saturated with kerosene. Carry some matches, and when you come to a nest, light and apply. A place may be thus in a few years nearly rid of worms. A man never has a true deed of property that the worms and bugs over-run annually. Decency also requires a cleaning out of the vermin. I am in sight of a fine piece of property where insect armies have full control, and breed in numbers sufficient to over-run all the rest of us.

Let any one who has trouble with bugs or insects of any sort try kerosene. It is our panacea. Use discretion in applying it to vegetation. As a general rule, one spoonful to a pail of water is enough, and is safe.—*E. P. Powell, in The Independent.*

To be certain of getting a bite when you go fishing; it is well to take one along, even if it is a cold one.



### Preparing Fruit for Market.

“Farmers are cheats,” we heard a city man remark the other day. “I do not buy a basket of strawberries that has not the best and biggest on top, and when the peach season comes I get a dozen or two of fine peaches at the top, while the rest of the basket is filled with small, green and gnarled fruit; they are all cheats.” The very next day after hearing this remark we were among the fruit commission houses, and in one place saw some young men, who had bought several crates of berries to peddle. They had a lot of smaller baskets to which they transferred the berries from the larger ones they had bought, and as they filled these they topped them with the largest berries with surprising dexterity. We concluded that all the cheating, in strawberries at least, was not done by the farmers. That there is much “deaconing” (the market phrase for topping) of peaches and other fruits we do not doubt, yet the tendency is all in the other direction. Take peach-growers for example, those who are regularly in the business and expect to continue it strive to make their brand upon a crate or basket a guarantee of honest packing. This is insisted upon at all the meetings of peach-growers. Only recently we received the transactions of a fruit-growers’ society in North Carolina, in which this point, honest packing, was dwelt upon at great length. “Honesty is the best policy” is not a proverb of the highest moral tone, as it implies that it pays to be honest, but the peach-growers are willing to adopt it. In packing peaches, the first point should be to assort them making as many grades as the condition of the fruit requires. When brought to the packing shed, the fruit is at once thinly spread in the shade, in order that it may cool as much as possible. In assorting, any that are at all soft are put aside, to be left at home; then two or three qualities, extras, first and second, are made, and with the best growers, the packages of each are alike all through. It is allowable to turn the colored sides of the top layer uppermost, in order that the fruit may appear at its best, but not to select

large specimens for the top layer. Those who send peaches to market for the first time will find it to their advantage to observe this rule. In packing grapes for market the box is opened at the bottom, fine large bunches are laid in and the box is filled up with smaller bunches. This is done in order that the fruit, when the top is taken off, may present a good appearance, and if the filling is done with good fruit, even if not the most select, there is no harm done. But if, as is sometimes the case, poorly ripened fruit, and even loose berries are used to fill up, the grower will in time find that his brand is not in demand in the market. The fruit-grower who expects to continue in the business cannot afford to pack his fruit dishonestly.—*American Agriculturist*.

### “Berry” Me in the Garden.

BY W. B. DERRICK.

Oh, “berry” me in the garden,  
And let nobody know  
That I am gone—or hidden  
Where luscious small fruits grow!

Yes, “berry” me in the garden  
When strawberries are ripe,  
Or when raspberries redden,  
And green fruits cease to gripe.

There let me rest in peace,  
And, oh! weep not for me,  
For troubles there will cease,  
And I shall happy be.

I’ll feast till I am full,  
Then fall asleep and dream  
Of this “berry” good world,  
Of berries and ice-cream.

*Baileyville, Ill.*

Why is a goose like an elephant’s trunk?  
Give it up? Because it grows down.

“Should auld acquaintance be forgot?”  
Certainly not if they are getting rich.

If a drunkard and a quart of whiskey  
were left together which would be drunk  
first? Just answer that if you please.

We suppose, speaking of Moses, the reason the Lord buried him where no man could ever find his grave, was to prevent the Ohio medical students from running away with the body before it was cold.

Drink nothing without seeing it; sign  
nothing without reading it.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. VIII.

WHOLE NO., XXII.

LA PLUME, LACKAWANNA CO., PA.,

AUGUST, 1883.

"New occasions teach new duties; time makes ancient good uncouth.  
They must upward still and onward, who would keep abreast of truth.  
Lo! before us gleam her camp-fires; we ourselves must pilgrims be:  
Launch our Mayflower, and steer boldly through the desperate winter sea.  
Nor attempt the future's portals with the past's blood-rusted key."

SUBSCRIPTIONS are always in order, Are we not making this magazine worth to you much more than it has cost you? Then why not show it to your neighbors, and by inducing them to subscribe, benefit them and us, and thus indirectly benefit yourself?

**To Cabbage Growers.**—The book which we advertise to be sent to any one interested in growing cabbages on condition that they will remit us the price—40 cents—after reading if they deem it worth that amount, is a new edition of the "Manual of Vegetable Plants." The publication has been delayed longer than anticipated but all who have applied will receive it as soon as it is ready.

MR. GEO. CANN, of Santa Fe, New Mexico, an old patron of ours, and a subscriber to SEED-TIME AND HARVEST. writes us that he is now sixty years of age, and has been for the past twenty-five years considerably crippled in both feet. On these accounts, in addition to failing health, he wishes to sell a nice little fruit and vegetable farm, on which he has grown Cabbages to weigh 50 lbs. per head, Beets 25 lbs. each; Spring Wheat 100 bushels per acre. etc., for one-half of what he considers its real value. Any one wishing to go into that far country, and secure a good start, would do well to drop him a line for further particulars.

**New Postal Changes.**—The new two-cent letter rate, which is to take effect October 1, and the new postal notes which are soon to be issued for any amount under Five Dollars payable at any money order office at an expense of only three cents to the sender, will prove great conveniences to our patrons, who can then send us any amount under Five Dollars safely by mail at an expense of only five cents. In this connection we will announce that La Plume is now a Money Order Office, and that Postal Notes as well as Money Orders for larger amounts may now be made payable at this office. Heretofore we have requested that they be drawn on Scranton as we did banking business there and could deposit them for collection same as checks. But the growth of our office has been so rapid that the Post Office Department has seen fit to establish a money order office here, which will prove a convenience to us and our patrons. There is no excuse now for losing money by sending it by mail in common letters.

**After issuing SEED-TIME AND HARVEST** for three years as a Quarterly, we began its publication as a Monthly on October 1st, 1882. Consequently all subscriptions which commenced with our first monthly number will expire with our next issue unless renewed. We did intend to mark the date of expiration as shown upon our books upon the wrappers of this issue as a warning to those whose names were liable to be dropped, but found that a large portion of the wrappers were already addressed, so concluded to defer it till next month. Our friends, therefore, who do not wish to risk missing a number should bear in mind to look at their address upon our next (September) number and see the figures opposite their names. If you find "10-83" it will signify that your time is out with that number, and a prompt renewal is requested, as we shall not keep a large stock of back numbers on hand. If you find "12-83" your time is out with the December number, if "1-84" it closes with the January number, and so on "2-84" for February, "3-84" for March, etc., the first figure showing the month, and the second the



year with which our visits will cease unless a renewal is received. See our special premium offers elsewhere. or to those who prefer seed-premiums we would say send us One Dollar and we will enter your name for another year and return to you a certificate which will be accepted by us again at any time within one year as One Dollar in payment for any seeds you may desire and select.

### IMPORTANT TO ADVERTISERS.

We propose to soon commence printing 50 000 copies of SEED-TIME AND HARVEST per month, and continue that number until May. Those not required for actual subscribers will be mailed in separate wrappers to select addresses of live men all over the Union. This will be a rare chance for advertisers as all contracts made now will be executed at our present rate, which is liable to be increased at any time. Send copy of your advertisement for an estimate for four or six months and we will quote figures that cannot fail to pay if any advertising pays you. Even our past and present circulation pays our advertisers as may be seen by the following voluntary expressions:

"Some time ago we made a proposition to the publisher of every newspaper in the United States for advertising space. Of those that accepted our offer the replies received from our advertisement in SEED-TIME AND HARVEST, published by I. F. Tillinghast, at La Plume, Pa., were *four times* as many in number as those from any other paper publishing the same advertisement." AGENT'S HERALD, Philadelphia, Pa.

"SEED-TIME AND HARVEST is one of the most valuable advertising mediums we have used this season, a large number of applications mentioning it."

POTTS BRO'S., Parkesburg, Pa.

"We have had numerous inquiries stating that they have noticed our advertisement in SEED-TIME AND HARVEST. Give us another insertion."

WILSON BRO'S., Easton, Pa.

"I am well pleased with SEED-TIME AND HARVEST as an advertising medium. I would like an estimate on my advertisement for one year. I have had as much inquiry from my card which appeared in your last issue, as from any other paper."

J. G. BURROW, Fishkill, N. Y.

"NUMEROUS APPLICATIONS mention SEED-TIME AND HARVEST. You may now give the enclosed advertisement one insertion."

GEORGE S. WALES, Rochester, N. Y.

"I am well satisfied with my advertisement in SEED-TIME AND HARVEST. I am receiving a great many letters referring to it. I will keep my advertisement in for one year and perhaps two years. I am receiving letters from all parts of the world and must say that SEED-TIME AND HARVEST is the best advertising medium that I have ever yet tried. Those who sow in it will surely reap a good harvest."

S. O. HAWKINS, Bucks, Ohio.

"We are much pleased with the results of our advertisement in the last issue of SEED-TIME AND HARVEST and enclose an advertisement for your next number."

Publishers *Practical Farmer*, Phil'a., Pa.

"SEED-TIME AND HARVEST pays us well for advertising."—G. H. & J. H. HALE, South Glastonbury, Conn.

"So far I have received as many inquiries from my advertisement in your paper as from the last number of the American Agriculturist and Farm Journal my two best advertising mediums."

J. PERKINS, Moorestown, N. J.

"We are well satisfied so far with our venture in advertising in SEED-TIME AND HARVEST. Enquiries are still coming in, therefore we cannot tell the full benefit we shall receive from it. We like your way of dealing and shall be pleased to use space again."

I. C. WOOD & BRO., Fishkill, N. Y.

"As an advertising medium I have found SEED-TIME AND HARVEST equal if not superior to any agricultural magazine published, and I advertise extensively. In subject matter it embraces the cream—practical, instructive, high-toned, moral."

Dr. J. P. H. BROWN, Augusta, Ga.

"I am pleased to say that I believe I am receiving more inquiries for my catalogue through your paper than through any other in which I am advertising."

A. BLANC, Philadelphia, Pa.

"We have received more letters of inquiry from SEED-TIME AND HARVEST (cost considered) than from any other source."

OSGOOD & Co., Binghamton, N. Y.

The above advertisers represent a great variety of articles, Bees, Engravings, Electrotypes, Scales, Grape Vines, Strawberry Plants, Nursery Stock, Publications, Hogs, Bone Mills, Machinery, &c., indeed the wants of our subscribers is legion and scarcely anything can be offered amiss.



## LETTERS FROM THE PEOPLE.

## FERTILIZER FOR STRAWBERRIES.

Huntington, L. I., July 13, 1883.

Mr. Tillinghast: Dear Sir,—The cucumber seed received of you were all O. K. They are up and doing nicely. I am well pleased; shall recommend you to my neighbors. Will you please inform me when is best to fertilize an old strawberry bed, in the Fall or Spring? Also the best fertilizer to use. Yours Truly,

JAMES G. SMITH.

ANSWER: The best time to fertilize an old strawberry bed is immediately after they are done fruiting, and the best fertilizer is a team of horses and a good plow. It does not pay to try to revive old beds. Our best growers set new beds every year and never expect but two crops at most from a bed. It costs more to clear out an old bed than it does to set a new one, and it does not amount to much after all. Growers in this vicinity set plants in Spring, cultivate thoroughly during the first summer, cover with straw late in the Fall and leave them until after fruiting. Then either plow up or clear out for a second year. The fertilizer should be applied when the new bed is prepared.

## EXCHANGE IDEAS.

Long Fork, Ky., July 9, 1883.

Mr. Tillinghast: Dear Sir,—I wish to inform you how well pleased I am with the result of the seeds ordered from you last spring, which were duly received and proved to be positively reliable. From the fifty-five cents worth of cabbage seeds I sold six packets, for which I received in return seventy-five cents in cash. Have sold about 500 plants and have about 1150 nice plants growing in my garden, which will sell, at maturity, from 5 to 10 cents per head. As to the mode of producing plants, I sow in beds as directed in SEED-TIME AND HARVEST; also plant about one or two seeds in each hill which I work out as soon as they all come up. Now a few words in regard to our little magazine, entitled SEED-TIME AND HARVEST, which I must recommend as a valuable instructor to any young horticulturist. I think that the Hon. Editor will give us a semi-monthly instead of monthly, and allow us an exchange department so we may have the liberty to discuss on horticultural topics. How many will vote for this?

J. I. RIDDLE.

ANSWER: Our friends already "have the liberty"—in fact, we often invite them to discuss horticultural and agricultural topics, and will

cheerfully make room for correspondence upon subjects of general interest. Thanks for your appreciative words.

## FROM THE DARK RIVER.

River Styx, O., July 20, 1883.

I. F. Tillinghast: Dear Sir,—As a few lines from the borders of the Styx may interest you, I will say that your seeds gave satisfaction, and SEED-TIME AND HARVEST is "rich goods done up in small parcels." Our vegetable crop bids fair, and hay, wheat, oats and corn are generally good. Apples, for the third season, have been a failure, something unprecedented on the old reserve. Small fruits are not half a crop and in good demand at from 10 to 15 cents per quart. Grapes were badly frozen by late frosts, and in many cases are a total failure, and if the balance succeed in being overcome by mildew, as in the past two years, we can hang our hopes of grapes on the same peg with our cider and apples.

Yours in hope, D. W. HERD.

## MULBERRY TREES.

Spearville, Kan., July 6, 1883.

I. F. Tillinghast: Sir,—Will you please inform me where I can get Mulberry seed or young Mulberry trees for plants. It may be that you have the same yourself, but I did not see them on your list. Can you inform me of the best kind of a tree to stand the drouth? By so doing you will oblige

S. TOWNSEND.

ANSWER: E. L. Meyer, Hutchinson, Kansas, advertised Russian Mulberry seeds in our July number. We cannot answer the next question. If we were located in a country in which our native trees would not withstand the prevalent drouths we should proceed to emigrate at once.

## A LITTLE EXPLANATION.

Mr. I. F. Tillinghast; Dear Sir,—Since I sent you that communication on Celery Culture, I have learned something more which I think you at least ought to know. The other day I had a long talk with the man that blached his celery with the drain tile last year. He told me he had some trouble at first to insert the plants inside the tile; some of the outside leaves and stalks would double up, bruise and break. To obviate this he got a piece of card-board the same length as the tile, and about so wide that, when turned round, it would take the largest plant of celery he had. Then having distributed the tile along the row of celery, he gathered up the leaves and stalks of the first plant, passed the card-board around it, then slipped both into the drain-tile. When the tile was settled into its place, he drew out the card-board at the top which left the plant snug and nice. He showed me how it worked on a young cabbage, and certainly it did operate to a nicety. As the saying goes, "time is money," no matter if you work yourself or hire others. This man tells me that he will never bank another plant if he can get the drain-tile instead.

M. D. DUMBELL.



## SOME INTERESTING NOTES.

Limestone, E. Tenn., July 13, 1883.

Friend Tillinghast: I have just come in from my garden which is growing finely. While looking at the sweet corn I found a large green worm half as long as my finger at the head of the ears. Some of it also has a smaller worm which is a dark striped fellow. In one ear of corn I found four or five. Is it a bug that lays the egg or does it create in the corn? Last summer we lived in Indiana and grew a large amount of cabbage. By hard work we fought the green worm with black pepper mixed with flour and ashes, but here in Tennessee we find a gray worm which is more destructive to the cabbage than the green worm. They seem to like their cabbage seasoned. We tried black pepper pure without effect; also cayenne pepper, carbolic acid and bran, without much effect. For a few days the white butterfly was not so bad, but the bran moulds on the cabbage and the gray-back works along and spins his web from one leaf to another. To-day I counted twenty-eight on two leaves. They looked as though they were twenty-four hours old. Sometimes I find four or five abreast as though they were on a march. I tried one of them in pure turpentine, poured it on a board and put the worm in it. It lived quite a while, then crawled out and died. They seem to have a web around them that resists anything that we put on them.

What makes the root of a cabbage turn hard like wood? When it does it is sure to die. There is a flowering plant here called Black-snake plant. I have seen one bloom. It is in shape like the Calla Lily, but a dark royal purple, well sprinkled with white spots. The stamens look like the tail of a black-snake and has a very bad smell. The flower which I saw was about twelve inches long; leaves dark green with darker spots on them. It grows from a bulb. If you wish one I will send it to you in the fall with several other novelties from this section. Yours Respectfully,

SARAH M. CRAWFORD.

ANSWER: Many thanks for your interesting descriptions. Of course we should be much pleased to receive the novelties. We have never been troubled with either the corn worm or the web cabbage worm which you describe. If any of our readers have learned to baffle them we shall be pleased to hear from them. We should try Dalmatian Insect Powder on them. It is claimed by Professor Cook that this powder may be eaten with impunity by man or the higher animals, and yet we know from actual test that it is very destructive to all insects.

## NOTES AND GLEANINGS.

THE OBJECT OF PLOWING is not merely to invert the soil but to pulverize it. Old ground is like mortar when plowed wet, and will not break up and become mellow; hence it might as well be planted without plowing at all. Sward ground will be partially pulverized by the elements evolved by the decomposition of the grass roots in the soil.

A VERY little superphosphate in the hill will kill the germ of the seed, especially of kinds of fertilizers that are rich in potash. Some grain planted early in dry weather is thus killed this year, but a portion is sending up weak shoots since the heavy rains began. When corn is put in with a drill, 200 pounds per acre may be evenly distributed without injury to the seed.

WE HAVE found a little salt sprinkled on a manure heap one of the best applications both for Summer and Winter. In warm weather it attracts moisture and keeps the manure from fire-fanging or burning from excessive fermentation. In Winter it keeps the heap from freezing solid, and at any season it makes the manure more soluble.

IT COSTS so much to test different varieties of fruits, especially those that are long in coming into bearing, that average farmers cannot afford to do much of it. The safe rule is to plant the sorts that have been found productive and good, and only adopt novelties on the assurance of nurserymen in whom the buyer has implicit confidence.

THE experience of many farmers this year shows that corn frozen solid while yet damp has its vitality destroyed. The losses are not so great as they would have been but for the fact that corn was suspected of being poor seed, and shrewd farmers tested it before planting. It is probable that unnoted losses in the corn crop occur from this cause every year.

A SHOVELFUL of dry earth thrown daily over the floor of the hen house will absorb foul odors, and by Fall the whole mass may be worked fine and applied to the wheat. It makes a valuable manure, and by sifting to exclude sticks and stones, it may be drilled with the seed, or mixed with other fertilizers thus applied.

IN CULTIVATING ORCHARDS the trees are more important than any crop that can be grown under them. If they are not, cut them down. The hills of potatoes or beans close to the trees never amount to much, and it is not worth while trying to save them at the risk of injuring the trees.



*PREPARING FOR THE FAIR.*

A lesson of great importance is every year taught to our farmers, as well as to the stockholders, directors and officers of our own County Agricultural Societies; and yet it is a lesson that either goes unheeded and unlearned or is forgotten before the next autumn. Were we to judge the business abilities of the farming community from the manner in which they slight the lesson of experience afforded them by the almost universal failure of an exhibition in farm products at the annual fair, we could be easily persuaded to pardon one who should say that they as a class were almost entirely destitute of business tact and ability. That this is not the case everybody is willing to admit, but were mechanics, merchants and manufacturers as little regardful of their interests at the county fairs, even, as the farmers are, or appear to be, the fair might appropriately be called what some writer has facetiously termed it, an Agricultural Horse trot.

Every year we hear farmers and their wives complain of the lack of exhibits of farm produce at the fair, and coupled with the complaints are expressions something like this: "I could have beat it all to death if I had taken my butter, or my cheese, there." Or, "If I had taken some of our chickens I might just as well have had the premium as for those Brown boys to have it, for our chickens are a good deal better than theirs and they are willing to acknowledge it. But that is just my luck. They knew I didn't intend to take mine and they just cooped theirs up and took them along and next week it will come out in the papers and be published all over the county. Brown Brothers of Heedless Hollow had on exhibition a fine coop of chickens and took First Premium. Next year they will have more calls for eggs for setting than they can fill and will have to come to me like enough to help them out."

These complaints occur year after year, and what is the reason for it? Does it lie with the farmers themselves or is the society partly to blame? We think the fault is on both sides to some extent. But as it will not do to berate the Agricultural socie-

ties until we have taught the farmers their lesson we will try to impress on the memory of the farmers some of the failures in last year's exhibitions as we saw them at the fairs, and then we will go for the societies. When the Centennial exhibition was first talked about, and the buildings were about to be erected the farmers came very near being overlooked and left out in the cold and even after a suitable building had been erected for their accommodation it was for a long time doubtful whether they would occupy the space provided for them or not. The universal lack of interest in exhibiting their products was shown by the farmers at the greatest exhibition of Industry the world has ever seen, and the manufacturers were obliged to come to their aid, and a large share of the ten-acre building known as Agricultural Hall was occupied by manufacturers who seem to know and appreciate the value of properly exhibiting and advertising their productions. Now this does not always arise from farmers not having produce that is worthy to be taken to the fair; quite otherwise. Almost any farmer can show some one or two good articles raised or manufactured by himself and if he could be induced to take them to the fair and every other farmer would do the same the complaints of "nothing to see" would soon be done away and the fairs would become better and better each year. It is not a necessity that a farmers products be the largest ever produced to be worthy to be exhibited, and yet this idea seems to have gained a place in the minds of too many of them. It would be well if they could be induced to divest themselves of this delusion. The mechanic who exhibits his own work, a wagon or a table, for instance, does not make one that is larger than the ordinary articles of that kind, for that would be preposterous. Neither should the farmer in trying to comply with the requirements of the premium list for the "best exhibition" of any particular product think that he will be required to show larger specimens than any one else in order to merit and receive the prize. We remember an instance in which an exhibitor showed much ill-feeling on account of not receiving the premium



on the "best bushel of potatoes" when his potatoes were much larger than any exhibited by his competitors and having the mistaken notion that "bigness" constituted goodness, he found fault with the judges and all connected with the fair, and declared he would never take anything there again, and we believe he has kept his word. Had he properly understood the import of that word "best" he would have seen that the basket of overgrown California potatoes, covered with prangles and clothed in soil, were not as good as the more symmetrical peach-blow washed clean and shown in a brand-new basket by his neighbor. A basket of vegetables of medium size, washed clean and exhibited in a tasty manner on plates or otherwise, generally attracts more attention and favorable comment from competent judges than overgrown specimens exhibited in a slovenly manner, and when an exhibitor gets a name for putting his articles in good shape for exhibition to advantage it is not at all strange if we hear of his winning the first prizes and having plenty of customers for his products at largely remunerative prices.

Manufacturers count largely upon fairs and exhibitions as a means of advertising their wares, and we see no reason why farmers should not do the same. If they would show a little more interest in exhibiting and advertising their products purchases would be more plenty and those having really good articles to dispose of would receive more remunerative prices. Thus we think we have clearly shown that the county fairs are a benefit to the farmers if they will avail themselves of the advantages they offer, even if they do not receive premiums sufficient to pay for the time and trouble required to make a fair exhibit. Let us all arouse and try to make some sort of an exhibition of our products at the fairs this fall and help to retrieve the good name that we as farmers and gardeners have lost.

CONNOISSEUR.

Snodgrass says the nearest approach to luck he ever knew was the finding of a counterfeit ten dollar bill on a broken bank. He says if anybody else had found it, it would have been a ten dollar gold piece.

## NOTES AND GLEANINGS.

**MARKETING PEARS.**—Pears, whether early or late, should never remain on the tree until they become mellow. Whenever they have made their growth they should be gathered. It is easy to tell the proper condition by observing the ease with which the stem parts from the tree. If on taking hold of a pear and lifting it the stem readily breaks away from the spur to which it is attached, the fruit has received all the nourishment it can get from the tree and the sooner it is gathered the better. Pears are sent to market in crates and half-barrels; especially fine specimens are sent in shallow boxes, only deep enough for a single layer of fruit, and each pear is wrapped in thin white paper. Extra specimens of any standard kinds will bring enough more to pay for this extra care in packing. The early varieties mature quicker after gathering than the later kinds, but all should reach the market in a firm and hard condition. As with all other fruit, it will pay to carefully assort pears. Make three lots, firsts and seconds for market, and the third for keeping at home—for the pigs, if need be, there is positively no sale for poor pears in the market.

THIS anecdote is told of the late Commodore Vanderbilt: At Saratoga, on one occasion, when sitting on the piazza of a hotel, a somewhat overdressed lady approached and claimed his acquaintance. The Commodore rose and talked affably with her, while his wife and daughter sniffed the air with scorn. "Father," said the young lady, as the Commodore resumed his seat, "didn't you remember that vulgar Mrs. B—as the woman who used to sell poultry to us at home?" "Certainly," responded the old gentleman promptly, "and I remember your mother when she used to sell root beer at three cents a glass over in Jersey, when I went up there from Staten Island peddling oysters out of my boat." As this homely reply was heard by a group surrounding the family, there was no further attempt at aristocratic airs on the part of the ladies during that season.

A MEDICAL JOURNAL says croup can be cured in one minute, and the remedy is simply alum and sugar. The way to accomplish the deed is to take a knife or grater and shave off in small particles about a teaspoonful of alum; then mix it with twice its quantity of sugar to make it palatable and administer as quickly as possible. Almost instantaneous relief will follow.



**THE OX-EYED DAISY.**—In some sections of the country this prolific pest has gained such ground that one cannot help wondering where the hay is to come from. Owners of fields troubled with the weed must bear in mind that it is propagated by seed, and not by the root, and to rid themselves of it they have only to mow before the seed is ripe. It may require two seasons to rid a field entirely of the innocent looking flower, but it should be done at any cost. There is no doubt but that in the hay seed purchased by farmers the seed of the daisy is often brought to clean fields. In purchasing hay seed, therefore, it would be well to have it examined by some one who could distinguish the daisy seeds, if any, or to test it by sowing beforehand a small quantity in a box. It is a noticeable and painful fact that careless farmers soon succeed in sowing the fields of their neighbors with noxious weeds.

**ECONOMY IN THE KITCHEN.**—Cold meat or bread should never be wasted, for there are plenty of ways in which they can be used. Stale light bread, biscuits, muffins or waffles, if put in a pan covered with water and left to soak over night, can be made into nice batter-cakes, by the addition of an egg, a little flour and baking powder. Cold bread of any kind if dipped into water and set in the oven for a short time, will be as good as fresh. If a cake fails to rise, it can be made into a nice custard or pudding by soaking it in some milk and adding an egg, and if too thin, a little flour. Cold meat can be made into puddings, by chopping it very fine, and stirring it into batter with some milk, parsley, pepper and salt, and if desired a little onion.

**THE EXPERIMENT** of sowing Winter wheat so late in the Fall that it will not come up until Spring is not tried so often as formerly. Of late years farmers have got into the habit of sowing early to hasten the harvest, the late wheat being more injured by the midge. But in very severe Winters, probably the safest way to keep the crop from Winter killing is to sow very late, and to have but little above ground to be injured. No amount of top can save the ground from freezing, and if the roots are to be loosened the less top there is to dry and exhaust their vitality the better for the crop.

**THE completion** of the Southern Pacific Railroad is likely to work a revolution in the grain transportation of southern California, provided the railway magnates are willing to accept fair rates for freight service. By the way of New

Orleans, California wheat can be landed in Liverpool in thirty-one days. This should relieve the uneasiness manifesting itself among the wheat growers of the Pacific slope, that they may again be placed at the mercy of foreign ship-owners, and be forced to pay such exorbitant rates of freight on wheat as to leave little for the expense of raising the grain. California expects this year to have 1,250,000 tons of wheat for export.

**EXPERIMENTS** have proved that musty meal is not wholesome food for any of the domestic animals. Disease and death have been directly traced to its use. When fed to poultry, chicken cholera or some disease resembling that was the result. Cows to which it was fed gave bitter milk, and ceased to thrive as well as those in the same pasture which had no grain; swine fed upon it failed to grow or fatten; only horses were not injured by it, and they escaped because they would not eat it.

**IF** pulverized charcoal forms part of the ingredients of a poultice of any kind for a man or beast, it proves one of the most cleansing applications for an old sore or a festering and painful wound that can be used. It will effectually prevent the growth of "proud flesh," and leave the edges of the sore as bright and clean as a new cut. It may be used in connection with flax seed, slippery elm, bread or cracker poultices; just add finely powdered charcoal enough to cover the poultice after it is spread.

**A GREAT** many old farmers believe that the breed of hogs is determined by the amount of corn in the crib. It is certainly true that the best-bred hogs require most liberal feeding. In fact, it is one of the advantages of a good breed that it will make better use of the greatest amount of feed than a poor animal. But a half-starved pig of the best breed is the worst kind of a scrub.

**IT IS BAD POLICY** to grow and sell young stock on the phosphate exhausted soils of the Eastern States. A young animal has more framework in proportion to weight than it will have when older, and after the framework is grown subsequent additions to weight are mainly of what the soil can easily afford to lose.

**SOME FARMERS** say that they would have done better this year if they had "made haste more slowly" this Spring. The crops upon undrained land which was plowed before it had settled and dried are not as forward now as those upon land plowed and planted two weeks later, but which was dryer when plowed.



## Puzzle Garnetings.

EDITED BY FRANK S. FINN.

— O —

All Communications intended for this Department should be addressed to Frank S. Finn, No. 753, Massabesic Street, Manchester, N. H.

Answers and original contributions solicited from all.

### No. 1. NUMERICAL ENIGMA.

The answer, composed of 27 letters, is an Italian proverb.

The 1, 5, 2, 7, 26, is the name of an imaginary person.

The 8, 12, 9, 23, 10, is part of the head.

The 13, 3, 6, 24, 16, is what we can never be but once.

The 4, 14, 19, 10, is the name of an ancient Queen.

The 21, 22, 27, is a climbing plant.

The 18, 20, 11, is never even.

The 25, 15, is a verb.

CYRIL DEANE.

### No. 2. DOUBLE ACROSTIC.

(Words of five letters.)

1. A kind of shaggy cloth.
2. A masculine name.
3. To deduce as a fact.
4. Indian corn.
5. A figure of four equal sides but unequal angles.
6. Egg-shaped, as a leaf.
7. Part of a flower.
8. Uniform.

Initials: An early flowering plant, closely allied to the cowslip.

Finals: A plant with blue, bell-shaped flowers.

NELLIE THOMAN.

### No. 3. HALF-SQUARE.

1. Parts of every farm.
2. The whole. 3. To expiate.
4. To partake of a dinner.
5. Something found in mines.
6. A pronoun. 7. A consonant.

E. R. CARDOVAN.

### No. 4. CROSS WORD ENIGMA.

In Joseph, not in Rena;

In Moses, not in Lena;

In Luther, not in Della;

In Martin, not in Ella;

In Reuben, not in Cora;

In Melvin, not in Dora;

In Nathan, not in Lily;

In Marcus, not in Milly;

In Horace, not in Ellen;

In Walter, not in Helen.

The whole is a beautiful flower

That grows in many a bower.

NEWTON A. BRYANT.

### No. 5. DECAPITATIONS.

1. Behead an animal and leave the tip of the stamen.
2. To become violent, and leave part of the foot.
3. To confound, and leave a labyrinth.

FANNIE SNELLING.

### No. 6. CURTAILMENTS.

1. Curtail a violin and leave a bird.
2. To settle, and leave a model.
3. Flourishing, and leave a tree.

HOLLIS LAD.

ANSWERS in September number.

PRIZE.—A book of dialogues will be given for earliest and best list of answers.

### OUR COZY CORNER.

The puzzle department is now open before you, kind friends, and we hope you will come into the garnery loaded down with answers, although one will be as welcome and receive the same attention as a full list. The puzzles are not hard, because we do not wish to discourage young heads from endeavoring to win the prize. Answers must reach Manchester by August 13, at the very latest, to be credited in the September issue, as the copy for that date has to leave us on August 14. Good, original puzzles will always be "in order;" but Diamonds and Half-Squares must read down and across alike. Double Acrostics should have the same number of letters in each line. Diamonds of less than seven letters for central word, and Squares of less than five letters to each line seem to us to be almost too easy. Please to write but one puzzle to a page and have them separate from answers to those already pub-



lished that you may send. Note paper and black ink are the best to use.

We shall show no partiality, but treat all alike, and use their favors in the order received; yet you must remember our space is limited to one page and it cannot go beyond that without crowding out other interesting matter. If you use a *nom de plume* please send name and full address in every letter. We have the promise of some of the best puzzles from many star puzzlers and it will be our intention not only to amuse, but to instruct both old and young. Of course, we cannot succeed without your help; and that we hope to have. After you begin to take an interest in this page you will find puzzle making and solving a very pleasant pastime. Note the puzzle editor's address at the head of the first column and send your communications for the "Garnerings" to him and *not* to the editor of SEED-TIME AND HARVEST.

Hoping to hear from you all soon, often and at goodly length, we bid you *au revoir* until next month. F. S. F.

### Advertisements.

*In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.*

## THE BRIGHTEST AND BEST!

The SOUTHERN WORLD, published on the first and fifteenth of each month, in Atlanta, Ga., is a sixteen page illustrated paper devoted to the Farm, Home and Workshop, is the brightest and best, as it is the cheapest agricultural and family paper in the South. Only \$1 per annum. In the issue for August 15th, will appear:

An hour with Washington Irving, by J. Easten Cooke; Rambles in Spain, by Prof. James A. Harrison; Management of Sheep, by Hon. Cassius M. Clay, of Kentucky; Georgia Creamery, by Mrs. C. W. Mabry; the Baby's Message, by Mrs. Margaret J. Preston; Proceedings of the South Carolina Agricultural Convention and many other articles of interest. A special feature in the August 15th, issue of the SOUTHERN WORLD, will be the first of a series of articles on "King Cotton" and the Cotton King, giving the history of cotton culture and Colonel Edmond Richardson's mode of farming. Mr. Richardson is the largest cotton grower in the world, producing 15,000 bales of the fleecy staple. The papers will be illustrated by J. H. Moser. Now is the time to advertise in it and subscribe for it. Dr. B. M. Wooley, Proprietor; W. G. Whidby, Editor. Copy sent two months free on receipt of five cent stamp.

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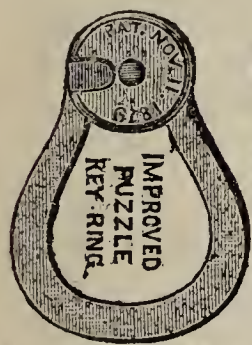
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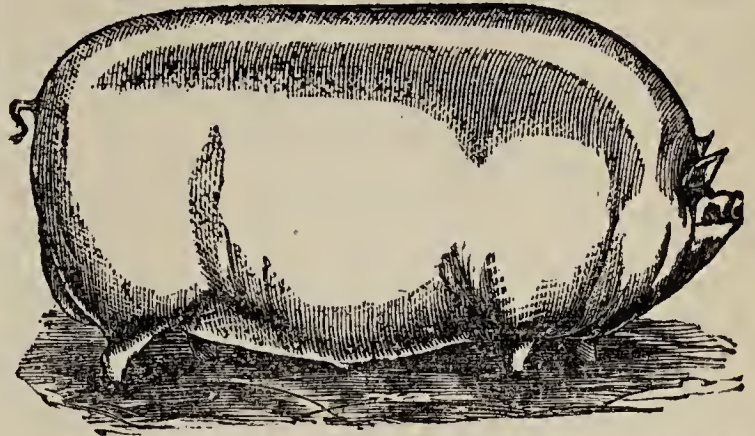
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**IMPROVED PUZZLE KEY RING!** Pat, Sept. 28, 1875, and Nov. 11, 1879 **NEATEST AND BEST** sells for 10 cents. Agents sell from 1 to 3 gross per day, and make \$8 to \$20 profit. Illustrated Descriptive Circulars. Terms to Agents, &c., FREE. Sample Ring, 10 Cts.

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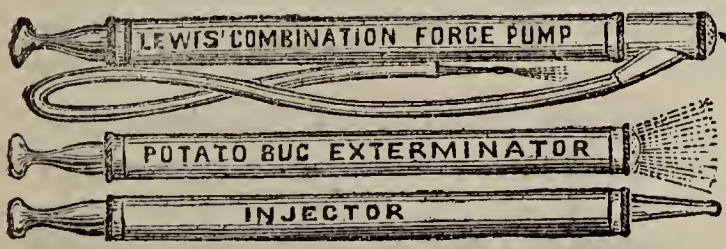
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Makes Three Machines. My agents are making \$5, \$10, \$15, \$20 and \$30 per day.



(The above shows the three Combinations.)

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Can change instantly from solid stream to spray.

Don't fail to read this **SPLENDID OFFER.**

I will send a sample Pump, express paid, to any Express station in the United States or Canada for \$5.50; the regular retail price is \$6 Weight, 4½ lbs; length, 32 in.

I also manufacture the "Potato Bug Exterminator or Agricultural Syringe" separate—price, postpaid, zinc, \$1.25; polished brass, \$1.75. Send for my Illustrated Circular, Price List and Terms to Agents, etc. I give a long list of customers, each of whom has bought from \$50 to \$2000 worth of these goods in from one to three weeks' time. You can make from \$10 to \$20 per day. Agents wanted everywhere.

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AN EXCHANGE tells of a farmer who tried to make his mowing machine last another season, and who claims to have lost not less than \$500 by so doing, in breakages, hindrances to labor, damages to hay, etc. While this was an extreme case, being upon a large farm, yet the loss from similar causes is often much greater than farmers imagine. A part of it may be avoided by carefully examining the machine before the time comes when it will be needed, and replacing all parts badly worn and particularly liable to breakage. If many such pieces are found it may prove that the cheapest way to repair the machine will be to buy a new one.

THE HIGH PRICES paid for fancy Jersey cattle may not and probably will not be lost. With the production of the best strains crowded to its utmost capacity it would be strange, if the supply did not at last cause a lowering of prices. But it is having a good effect in bringing to average farmers a class of half and three-quarter grades which can be sold at moderate prices. The cross of a Jersey bull on a superior native milking cow is preferred by many farmers to the higher priced thoroughbreds. The best Jerseys do not give enough in quality and are undersized when wanted for the butcher, as every cow must be sooner or later.

POTATOES belong to the same family of plants as the deadly nightshade (being cousins several degrees removed), and the poison (solanine) peculiar to that species can be developed in the potato by exposure to the sun. Farmers should, therefore be careful in the use they make of those which have turned green by being wholly or partially uncovered in the field. They should be planted deep enough so that none will grow out of the ground, or the hill should be made high enough to keep them all covered. For the same reason, grocers should not keep their stock of potatoes exposed on the sidewalk for several days at a time, as is the custom with many of them.

POMOLOGISTS, and, in fact, all agriculturists, are too slow in adopting many of the State reports of agriculture and horticulture as works of consultation and reference. Those are especially desirable which, like the Michigan reports, contain the combined work of practical farmers and the professors of the Agricultural College. Several States publish reports which are invaluable aids to every cultivator of the soil. Some contain exhaustive and reliable papers on insect enemies and friends, on desirable grasses and on numbers of popular scientific subjects, to say

nothing of numerous explicit directions for the cultivation of nearly every crop.

MUCH CARE SHOULD BE EXERCISED in watering house plants. Most housewives follow the practice of soaking the soil once a day or less, and then letting it dry out until it becomes hard. This stiff, hard and unyielding character of the soil in pots is not usually conducive to the growth of plants. The earth should be kept loose by a liberal addition of vegetable mould, such as can be obtained under the leaves in an old forest or in many neglected fence rows. For most plants a third or a half of the soil may be mould, which must be well mixed with the heavier earth. Then give good drainage by employing unglazed pots with holes in the bottom, and by placing a handful of broken brick or crockery in the bottom, and over it lay sphagnum or other moss or peat. Do not water heavily. The soil should not be cold and soggy. Apply water frequently, but avoid soaking. The leaves of the plant should also be frequently sprayed, especially if evaporation goes on rapidly.

IF the crow did no other harm than to prey upon toads and frogs he might be pardoned; but his great offense, the one which cannot be overlooked, is his destruction of the eggs and young of song-birds. It is in this that he quietly but persistently wrongs the farmer and mankind at large. Whatever other crimes may be laid to his charge, this, of itself, is sufficient to warrant his extermination—a consummation however, that will probably never be reached, for the rogue has a brain capable of cultivation, and wherever he is much hunted or persecuted, soon learns to avoid all guns or traps.

A LARGE aggregate of lumber is annually consumed in the manufacture of agricultural implements, in Chicago alone amounting to upwards of 20,000,000 feet. Of this total, about 7,000,000 feet are pine, three-quarters of the remainder is ash, the great staple. Oak enters largely into this trade, but not to the extent that it does in wagon-making. Hickory, maple, elm, whitewood, basswood and Norway pine are also used to a considerable extent in this industry.

BOSTON MARKETMEN furnish to the mountain and seaside resorts a large proportion of the vegetables used in catering to their guests. Is it not singular that neighboring farmers do not take advantage of this Summer hotel demand and raise such crops as would command a ready and remunerative market?



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**PEERLESS BLACK CHAFF** Winter Wheat, This is a new and wonderful variety now offered for the first time. It has the largest head, largest grain, strongest straw, and is the best and most productive wheat in the world. Yielded 44 Bushels per acre from one bushel sowed. The head is bearded with jet black chaff, presenting the most striking appearance. All who have seen it say it is the wonder of the world. One head produced 7 pounds, 3 heads 15 lbs., and one grain produced 97 heads. From one pound there was harvested four bushels without cultivation. Price by mail, postpaid, 50 cts. per 2-ounce package, \$2.00 per pound.

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**Mediterranean Hybrid Amber.**—New, red; price same as Martin's Amber.






|                                      | Bushel. | Two Bushels. | Pound. |
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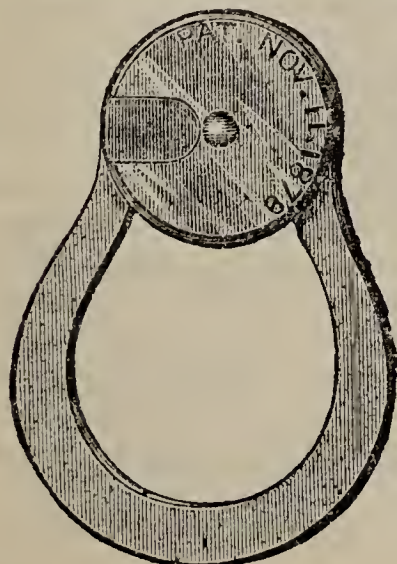
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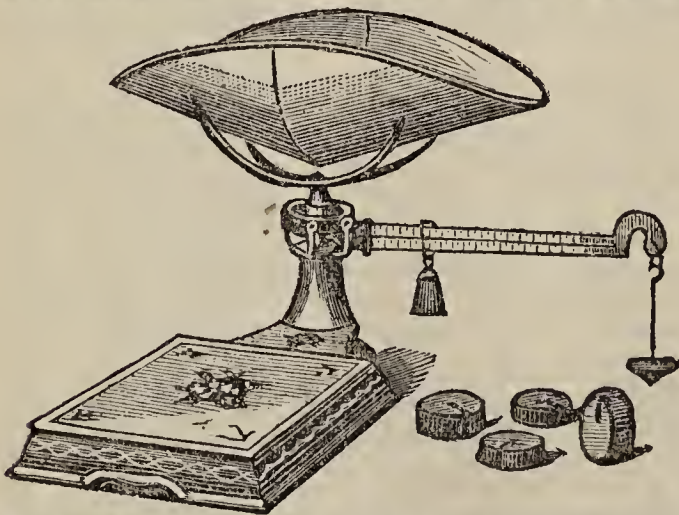
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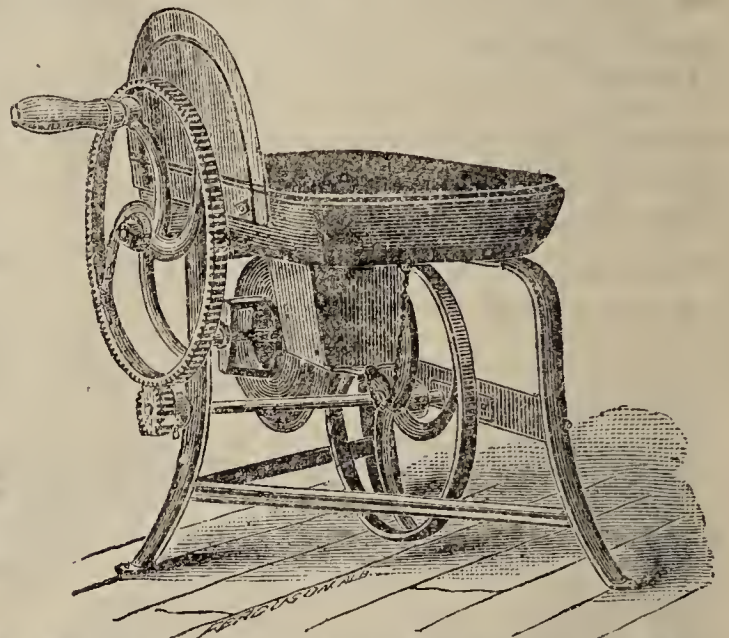
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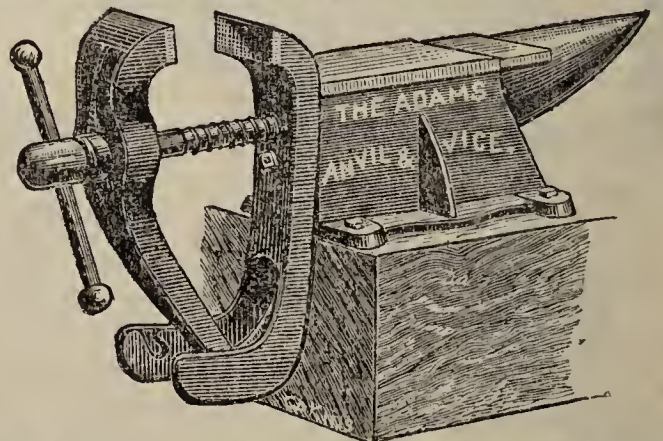
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**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if **packets only are taken**.

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Single quarts by express at peck rates.

| Beans.                      | 2-oz Pkt. | Lb. | Peck. |
|-----------------------------|-----------|-----|-------|
| Lemon Pod Wax .....         | 15        | 50  | 4.00  |
| New Prolific Tree Bean..... | 15        | 50  | 4.00  |
| Crystal White Wax.....      | 10        | 40  | 2.50  |
| Early Feejee.....           | 10        | 30  | 1.60  |
| Early Black Wax.....        | 10        | 30  | 2.00  |
| Jones's Ivory Pod Wax.....  | 10        | 40  | 2.00  |
| Ferry's Golden Wax.....     | 10        | 40  | 2.00  |
| Large White Marrowfat.....  | 10        | 25  | 1.60  |

| Pole Beans.                | Pkt. | Lb. | Peck. |
|----------------------------|------|-----|-------|
| Concord.....               | 10   | 30  | 2.00  |
| Large Lima.....            | 10   | 30  | 2.50  |
| German Wax.....            | 10   | 30  | 2.00  |
| Dreer's Improved Lima..... | 10   | 30  | 3.00  |

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|-----------------------------|------|-----|-------|
| Red River, New.....         | 10   | 30  | 1.60  |
| Early Marblehead.....       | 10   | 30  | 1.60  |
| Amber Cream, New.....       | 10   | 30  | 1.60  |
| Early Minnesota.....        | 10   | 30  | 1.60  |
| Crosby's Extra Early.....   | 10   | 30  | 1.60  |
| Black Mexican.....          | 10   | 30  | 1.60  |
| Stowell's Evergreen.....    | 10   | 30  | 1.60  |
| New Egyptian.....           | 10   | 30  | 1.60  |
| Red and White Rice Pop-Corn | 10   | 40  | —     |
| Wauhakum Field.....         | 10   | 30  | 1.00  |
| Longfellow's Field.....     | 10   | 30  | 1.00  |

| Peas.                        | Pkt. | Lb. | Peck. |
|------------------------------|------|-----|-------|
| American Racer.....          | 20   | 90  | 6.00  |
| American Wonder.....         | 15   | 50  | 4.00  |
| Extra Early Dan. O'Rourke..  | 10   | 30  | 1.60  |
| Philadelphia Extra Early ... | 10   | 30  | 1.60  |
| Blue Imperial.....           | 10   | 30  | 1.60  |
| McLean's Little Gem.....     | 10   | 30  | 1.60  |
| Champion of England.....     | 10   | 30  | 1.60  |
| Black-Eyed Marrowfat.....    | 10   | 29  | 1.00  |

| Asparagus.                   | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Conover's Colossal.....      | 05   | 10  | 0.75 |
| Early Purple Giant Argenteum | 05   | 29  | 1.50 |

| Brussels Sprouts.        | Pkt. | Lb. |
|--------------------------|------|-----|
| New Dwarf.....           | 05   | 25  |
| Carter's Perfection..... | 05   | 25  |

| Beets.                     | Pkt. | Oz. | Lb. |
|----------------------------|------|-----|-----|
| New Eclipse, true.....     | 10   | 25  | —   |
| Early Egyptian.....        | 05   | 10  | .75 |
| Bassano.....               | 05   | 10  | .75 |
| Dewing's Red Turnip.....   | 05   | 10  | .75 |
| Yellow Turnip.....         | 05   | 10  | .75 |
| Long Smooth Blood.....     | 05   | 10  | .75 |
| Above Varieties Mixed..... | 05   | 10  | .75 |

| Mangel Wurzel Beets.   | Pkt. | Oz. | Lb. |
|------------------------|------|-----|-----|
| Yellow Globe.....      | 05   | 10  | .75 |
| Norbitan's Giant.....  | 05   | 10  | .75 |
| Webb's New Kinver..... | 05   | 10  | .75 |
| Imperial Sugar.....    | 05   | 10  | .65 |

| Broccoli.              | Pkt. | Oz. | Lb. |
|------------------------|------|-----|-----|
| Early Purple Cape..... | 10   | 60  | —   |
| White Cape.....        | 10   | 60  | —   |
| Walcheran.....         | 10   | 60  | —   |

| Cauliflower.               | Pkt. | Oz.  | Lb. |
|----------------------------|------|------|-----|
| Lackawanna (New).....      | 20   | 2.00 | —   |
| Early Snowball, New.....   | 20   | 2.00 | —   |
| Earliest Dwarf Erfurt..... | 20   | 2.00 | —   |
| Early London.....          | 15   | 75   | —   |
| Nonpareil.....             | 20   | 1.25 | —   |
| Lenormand's Short Stem.... | 20   | 1.25 | —   |
| Above Varieties Mixed..... | 20   | 1.25 | —   |

**Cabbage.**  
**American Cabbage Seeds** are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply *thousands of dollars* worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

|                              |    |    |      |
|------------------------------|----|----|------|
| Hartwell Early Marrow.....   | 15 | 50 | 8.00 |
| Very Early Favorite.....     | 15 | 50 | 8.00 |
| Early York.....              | 05 | 15 | 2.00 |
| Berkshire Beauty, New.....   | —  | —  | —    |
| Early Bleichfield.....       | 10 | 25 | 4.00 |
| True Jersey Wakefield.....   | 10 | 25 | 4.00 |
| Henderson's Early Summer..   | 10 | 25 | 4.00 |
| Newark Early Flat Dutch....  | 10 | 25 | 4.00 |
| Large Early Oxheart.....     | 05 | 20 | 3.00 |
| Early Winningstadt.....      | 05 | 20 | 3.00 |
| Fottler's Early Drumhead.... | 05 | 25 | 4.00 |
| Premium Flat Dutch.....      | 05 | 25 | 4.00 |
| Late American Drumhead....   | 05 | 25 | 4.00 |
| Marblehead Mammoth.....      | 05 | 25 | 4.00 |
| Perfection Drumhead Savoy..  | 05 | 25 | 4.00 |
| Red Drumhead,.....           | 05 | 25 | 4.00 |
| Red Dutch.....               | 05 | 25 | 4.00 |
| Early Dark Red Erfurt.....   | 10 | 35 | 5.00 |
| Above Varieties Mixed.....   | 10 | 30 | 4.50 |

| Carrot.                    | Pkt. | Oz. | Lb.  |
|----------------------------|------|-----|------|
| Early Short Horn.....      | 05   | 10  | 1.25 |
| Improved Long Orange.....  | 05   | 10  | 1.50 |
| Danvers Orange.....        | 05   | 10  | 1.25 |
| White Belgian.....         | 05   | 10  | 1.00 |
| Above Varieties Mixed..... | 05   | 10  | 1.00 |

| Celery.                      | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Golden Hartwell, New.....    | 15   | —   | —    |
| La Plume Chestnut, New.....  | 10   | 25  | 3.00 |
| Crawford's Half Dwarf.....   | 05   | 25  | 3.00 |
| Carter's Dwarf Crimson.....  | 10   | 25  | 3.00 |
| New Golden Dwarf.....        | 10   | 25  | 3.00 |
| Dwarf White Solid.....       | 05   | 25  | 3.00 |
| Boston Market.....           | 10   | 50  | —    |
| Sandringham.....             | 05   | 25  | 3.00 |
| Giant White Solid.....       | 05   | 25  | 3.00 |
| Celeriac, Turnip Rooted..... | 05   | 25  | —    |
| Above Varieties Mixed.....   | 10   | 30  | —    |

| Chicory.          | Pkt. | Oz. | Lb.  |
|-------------------|------|-----|------|
| Large Rooted..... | 05   | 10  | 1.25 |

| Cress.                      | Pkt. | Oz. | Lb.  |
|-----------------------------|------|-----|------|
| Curled, or Peppergrass..... | 05   | 10  | 1.25 |
| Water Cress.....            | 10   | 60  | —    |

| Cucumber.                    | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Tailby's Hybrid, New.....    | 05   | 10  | 1.50 |
| Early Cluster.....           | 05   | 10  | 1.25 |
| Early Russian.....           | 05   | 10  | 1.25 |
| Peerless Early White Spine.. | 05   | 10  | 1.25 |
| Green Prolific.....          | 05   | 10  | 1.25 |
| Long Green.....              | 05   | 10  | 1.25 |
| Above Varieties Mixed.....   | 05   | 10  | —    |

| Egg Plant.                  | Pkt. | Oz. | Lb. |
|-----------------------------|------|-----|-----|
| Long Purple.....            | 10   | 50  | —   |
| Improved N. Y. Purple.....  | 10   | 60  | —   |
| Very Early Dwarf Purple.... | 10   | 50  | —   |
| Striped Gaudalupe.....      | 10   | 60  | —   |
| Long White China.....       | 10   | 60  | —   |
| Above Varieties Mixed.....  | 10   | 60  | —   |



# SEED-TIME AND HARVEST.

|                                 | Pkt. | Oz. | Lb.  |
|---------------------------------|------|-----|------|
| <b>Endive.</b>                  |      |     |      |
| Green Curled .....              | 05   | 20  | 2.00 |
| <b>Gourds.</b>                  |      |     |      |
| New Nest Egg .....              | 15   | —   | —    |
| <b>Kohl Rabi.</b>               |      |     |      |
| Large Purple.....               | 10   | 35  | —    |
| Early White Vienna .....        | 10   | 35  | —    |
| Above Varieties Mixed.....      | 10   | 35  | —    |
| <b>Lettuce.</b>                 |      |     |      |
| Black Seeded Satisfaction ....  | 05   | 20  | 2.00 |
| Royal Summer Cabbage .....      | 05   | 20  | 2.00 |
| Black Seeded Simpson, New,..    | 05   | 30  | 4.00 |
| Hanson .....                    | 05   | 20  | 2.00 |
| Victoria .....                  | 05   | 20  | 2.00 |
| Early Curled Simpson .....      | 05   | 20  | 2.00 |
| True Boston Market .....        | 05   | 20  | 2.00 |
| White Seeded Tennisball.....    | 05   | 20  | 2.00 |
| Black Seeded Tennisball.....    | 05   | 20  | 2.00 |
| Drumhead, or Malta .....        | 05   | 20  | 2.00 |
| Above Varieties Mixed .....     | 05   | 20  | 2.00 |
| <b>Leek.</b>                    |      |     |      |
| Large Scotch Flag .....         | 05   | 20  | 4.00 |
| <b>Musk Melon.</b>              |      |     |      |
| Nutmeg.....                     | 05   | 10  | 1.25 |
| Skillman's Netted.....          | 05   | 10  | 1.25 |
| Improved Yellow Cantaloupe      | 05   | 10  | 1.25 |
| Green Citron.....               | 05   | 10  | 1.25 |
| Pine Apple .....                | 05   | 10  | 1.25 |
| Jenny Lind.....                 | 05   | 10  | 1.25 |
| Surprise, New, .....            | 05   | 15  | 2.00 |
| Bay View, New, .....            | 05   | 15  | 2.00 |
| Montreal Green Nutmeg, New,     | 05   | 20  | 3.00 |
| Netted Gem .....                | 05   | 20  | 3.00 |
| Hackensack .....                | 05   | 10  | 2.00 |
| Christiana Orange .....         | 05   | 10  | 2.00 |
| Above Varieties Mixed.....      | 05   | 10  | 1.50 |
| <b>Water Melon.</b>             |      |     |      |
| The "Boss," New, .....          | 05   | 20  | 2.00 |
| Japan Sculptured-Seeded ....    | 05   | 20  | 2.00 |
| Cuban Queen, New.....           | 05   | 20  | 3.00 |
| Phinney's Early.....            | 05   | 10  | 1.25 |
| Striped Gipsy.....              | 05   | 10  | 1.25 |
| Ice Cream .....                 | 05   | 10  | 1.25 |
| Mountain Sweet .....            | 05   | 10  | 1.25 |
| Ferry's Peerless .....          | 05   | 10  | 1.25 |
| Citron. (for preserving,) ..... | 05   | 10  | 1.25 |
| Above Varieties Mixed.....      | 05   | 10  | 1.25 |
| <b>Mustard.</b>                 |      |     |      |
| White French.....               | 05   | 05  | 60   |
| Black American .....            | 05   | 05  | 60   |
| <b>Onion.</b>                   |      |     |      |
| Southport Yellow Globe, New     | 05   | 20  | 2.00 |
| Southport Red Globe, fine,...   | 05   | 20  | 2.00 |
| Early Red Globe.....            | 05   | 30  | 2.00 |
| Yellow Danvers.....             | 05   | 15  | 1.60 |
| Red Wethersfield .....          | 05   | 15  | 1.60 |
| Large Yellow Dutch.....         | 05   | 15  | 1.50 |
| White Globe .....               | 05   | 20  | 2.00 |
| White Portugal.....             | 05   | 20  | 2.00 |
| New Queen .....                 | 05   | 20  | 2.00 |
| White Italian Tripoli.....      | 05   | 20  | 2.00 |
| Giant Rocca.....                | 05   | 20  | 2.00 |
| <b>Parsnip.</b>                 |      |     |      |
| Smooth Hollow Crowned ....      | 05   | 10  | .75  |
| Early Round .....               | 05   | 10  | .75  |
| New Maltese .....               | 05   | 10  | 1.00 |
| <b>Parsley.</b>                 |      |     |      |
| Extra Fine Curled .....         | 05   | 15  | 2.00 |
| <b>Pepper.</b>                  |      |     |      |
| <b>New Golden Dawn</b> .....    | 15   | —   | —    |
| Sweet Bell or Bull Nose.....    | 10   | 25  | 4.00 |
| Large Sweet Mountain.....       | 10   | 25  | 4.00 |
| Red Cayenne .....               | 10   | 25  | 4.00 |
| Spanish Monstrous (New) ....    | 10   | 40  | —    |

|                                      | Pkt. | Oz.     | Lb.         |     |     |
|--------------------------------------|------|---------|-------------|-----|-----|
| <b>Pumpkin.</b>                      |      |         |             |     |     |
| Large Cheese.....                    | 05   | 10      | .85         |     |     |
| Sugar. (Fine for pies,).....         | 05   | 20      | —           |     |     |
| Connecticut Field .....              | 05   | 05      | .45         |     |     |
| <b>Radishes.</b>                     |      |         |             |     |     |
| Early Scarlet Turnip .....           | 05   | 10      | 1.00        |     |     |
| Early White Turnip .....             | 05   | 10      | 1.00        |     |     |
| Long Scarlet Short-Top.....          | 05   | 10      | 1.00        |     |     |
| Early Scarlet Olive .....            | 05   | 10      | 1.00        |     |     |
| French Breakfast.....                | 05   | 10      | 1.00        |     |     |
| Grey Summer Turnip.....              | 05   | 10      | 1.50        |     |     |
| Golden Yellow Summer (New)           | 05   | 10      | 1.50        |     |     |
| Summer Varieties Mixed....           | 05   | 10      | 1.25        |     |     |
| China Rose Winter .....              | 05   | 10      | 1.00        |     |     |
| Black Spanish Winter .....           | 05   | 10      | 1.00        |     |     |
| California Mammoth White..           | 05   | 15      | 2.00        |     |     |
| Winter varieties Mixed .....         | 05   | 10      | 1.50        |     |     |
| <b>Rhubarb.</b>                      |      |         |             |     |     |
| Linnæus .....                        | 05   | 10      | 1.60        |     |     |
| <b>Salsify, or Vegetable Oyster.</b> |      |         |             |     |     |
| White French .....                   | 05   | 15      | 1.50        |     |     |
| <b>Spinach.</b>                      |      |         |             |     |     |
| Round Leaved .....                   | 05   | 05      | 0.50        |     |     |
| Monstrous Viroflay .....             | 05   | 10      | 1.00        |     |     |
| <b>Squash.</b>                       |      |         |             |     |     |
| Low's Essex Hybrid, New,....         | 10   | 15      | 2.50        |     |     |
| Early White Bush .....               | 05   | 10      | 1.00        |     |     |
| Summer Crookneck .....               | 05   | 10      | 1.00        |     |     |
| Hubbard.....                         | 05   | 10      | 1.25        |     |     |
| Marblehead .....                     | 05   | 10      | 1.25        |     |     |
| Butman, .....                        | 05   | 10      | 1.25        |     |     |
| Mammoth .....                        | 10   | 30      | —           |     |     |
| <b>Tobacco.</b>                      |      |         |             |     |     |
| Connecticut Seed Leaf.....           | 10   | 30      | —           |     |     |
| Spanish Long Leaf.....               | 10   | 30      | —           |     |     |
| <b>Tomato.</b>                       | Pkt. | Hf.-Oz. | Oz.         |     |     |
| Livingston's Favorite, New,          | 20   | —       | —           |     |     |
| President Garfield, New,....         | 10   | —       | —           |     |     |
| Essex Hybrid, New.....               | 10   | .30     | .60         |     |     |
| Ford's Alpha, New, .....             | 10   | .30     | .60         |     |     |
| Acme, .....                          | 05   | .20     | .40         |     |     |
| Mayflower, New, .....                | 10   | .30     | .60         |     |     |
| Red Currant .....                    | 05   | .25     | .50         |     |     |
| Paragon .....                        | 05   | .25     | .50         |     |     |
| Canada Victor .....                  | 05   | .15     | .30         |     |     |
| Conqueror .....                      | 05   | .15     | .30         |     |     |
| Livingston's Perfection, ....        | 05   | .30     | .60         |     |     |
| Trophy .....                         | 05   | .15     | .30         |     |     |
| Island Beauty.....                   | 05   | .30     | .60         |     |     |
| Green Gage.....                      | 05   | .15     | .30         |     |     |
| Golden Rural, New,....               | 05   | .20     | .40         |     |     |
| Saint Paul, (New) .....              | 10   | .30     | .60         |     |     |
| Above Varieties Mixed.....           | 05   | .20     | .40         |     |     |
| <b>Turnip.</b>                       | Pkt. | Oz.     | Lb.         |     |     |
| New White Egg,.....                  | 05   | 10      | 1.00        |     |     |
| Early White Dutch.....               | 05   | 10      | .75         |     |     |
| Purple Top Strap Leaf.....           | 05   | 10      | .75         |     |     |
| Long White Cow Horn .....            | 05   | 10      | .75         |     |     |
| Large White Globe.....               | 05   | 10      | .75         |     |     |
| Yellow Aberdeen .....                | 05   | 10      | .75         |     |     |
| Yellow Globe .....                   | 05   | 10      | .75         |     |     |
| Golden Ball.....                     | 05   | 10      | .75         |     |     |
| Above Varieties Mixed.....           | 05   | 10      | .75         |     |     |
| <b>Rutabaga, or Swede Turnip.</b>    |      |         |             |     |     |
| White French, or Sw't German         | 05   | 10      | 80          |     |     |
| Skirving's Purple Top Yellow         | 05   | 10      | 80          |     |     |
| Brill's American Yellow .....        | 05   | 10      | 80          |     |     |
| Shanrock Swede, Yellow.....          | 05   | 10      | 80          |     |     |
| Above Varieties Mixed.....           | 05   | 10      | 80          |     |     |
| <b>Herb Seeds.</b>                   | Pkt. | Oz.     | Pkt.        | Oz. |     |
| Coriander .....                      | 05   | .20     | Dill.....   | 05  | .25 |
| Horehound.....                       | 10   | .50     | Sage .....  | 05  | .20 |
| Summer Savory... ..                  | 10   | .30     | Saffron.... | 05  | .25 |
| Sweet Marjoram.. ..                  | 10   | .40     | Lavender .  | 10  | .30 |
| Caraway .....                        | 05   | .15     | Sweet Basil | 10  | .40 |
| Sweet Fennel.....                    | 05   | .20     | Thyme....   | 10  | .50 |

**Isaac F. Tillinghast,**  
**La Plume, Lack'a Co., Pa.**



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1883.



Seed-Time and Harvest,

SEPTEMBER.



An Illustrated Monthly  
MAGAZINE,  
Devoted to Rural Affairs.

PUBLISHED BY  
Isaac F. Tillinghast, La Plume, Pa.

SUBSCRIPTION, FIFTY CENTS A YEAR.



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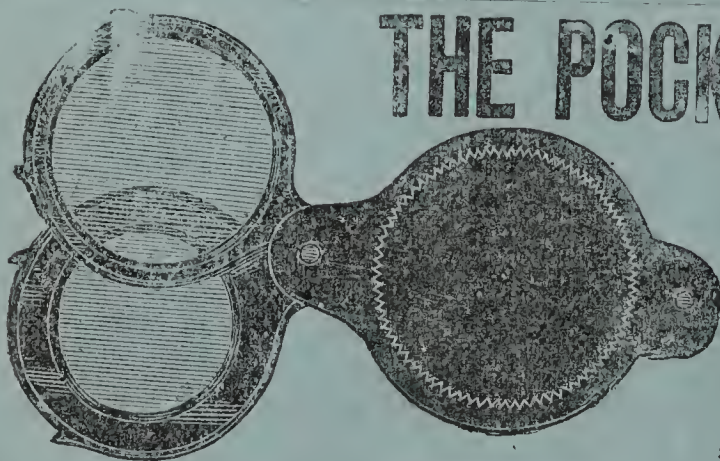
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and multiplies our capacity to see small things clearly. For instance, an insect which appears to be without form and no larger than a mite, when examined under our Magnifier, is seen to be as exquisitely formed and as delicately colored as any of its larger species. The skin upon a person's face and hands appears to be almost as rough as the hide of a rhinoceros. The different parts of flowers are so much enlarged as to exhibit varied attractions which only infinite skill could have planned and executed. Hence the Magnifier should be reckoned as an indispensable pocket companion of every child as well as of every grown person. The magnifying powers of this instrument range from three to ten diameters, or from nine to one hundred times the superficial surface.

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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

VOL. 4.

SEPTEMBER, 1883.

NO. IX.



## The Mrs. Garfield Strawberry.

EVERY year brings something new in the small fruit line and the year 1883 is no exception to the rule. Among the introducers of new strawberries there appears to be much earnest competition, and to secure the patronage of the public, one must have something quite as large and productive, and of a little better quality in some respects than anything before offered. The introducers claim for the Mrs. Garfield strawberry several qualities in advance of anything before it. Among these are its

perfect flowering, large size, fine form, high flavor, earliness, firmness and great productiveness. The Mrs. Garfield was originated by Mr. Matthew Crawford, of Ohio, who is accounted one of the most successful strawberry growers in the United States, and would not be apt to palm anything off upon the public that would endanger his reputation as a judge of fine berries. The plants are offered in our advertising columns, to which we refer our readers for further particulars. We acknowledge our indebtedness to Messrs. Hale Brothers for the use of the cut.



## A TRAMP'S STORY.

"Where now?" I asked as I saw my old chum, Tom Shelby, coming up, leading a large, brindle dog, and carrying a double-barrel shot-gun on his shoulder.

"Oh, I'm off for a coon hunt," he answered, "and I've come to get you to go along. I'll want somebody to carry the game, you know."

"Yes," I replied, sarcastically, "I shall be delighted to act in that capacity; but which way are you going, Tom?"

"I think," he said, "we will go north until we get to the railroad; we will then follow up the track a few miles and return by a different route. There are heavy woods on both sides of the railroad, you know, and the coons hold high carnival there every night. I have seen their tracks in the soft mud as thick as sheep tracks." I approved of the plan and at dusk we set out.

It was a dark, foggy night in March, "just the night for coons," Tom remarked, as we set out; but it did not prove to be just right, for we reached the railroad without "striking a track." If the raccoons were holding "high carnival" there that night our dog did not disturb them. He followed close at our heels and was scarcely out of sight once during the evening. I have heard old hunters say that a dog can tell a good night for raccoons and I am inclined to think there is some truth in it.

"Somebody else out hunting," Tom observed, pointing to a light about a quarter of a mile to our left.

"No;" I answered, "it cannot be any one out hunting, for I have been watching that light for some time and it is not moving."

"Perhaps there is a sugar camp over there and somebody is sugaring off," Tom suggested. "Suppose we go over and help them; I, for one, am a famous hand at sugaring off."

I assented and we set out. On nearing the light we saw it was not in a sugar camp, as we had at first supposed, but in an old deadening. A log-heap had been set on fire and the flames were now roaring

and crackling in a lively manner.

"A tramp," whispered Tom, pointing to a huge log, back a short distance from the fire.

Looking in the direction indicated, I beheld one of the oddest specimens of humanity I ever saw. His hair was as white as the driven snow and hung in tangled locks about his head. A long, gray beard nearly concealed the lower part of his face and a huge hat, made of corn husks, shaded his massive forehead. His clothes were made of old rags wound around about him like bandages. His shoes were made in the same manner—they resembled huge balls of carpet rags more than shoes. Several immense packs lay on the log beside him. As we came up he drew from his pocket a large knife and brandished it threateningly. We assured him of our peaceable intentions, however, and he closed the knife and seated himself on a log beside the fire.

"You see," he said, apologetically, "The railroad hands make occasional raids on my camp and I thought they were coming to visit me to-night; hence, my war-like demonstrations."

"You seem to have a pretty comfortable fire," Tom remarked, seating himself on a log beside the tramp.

"Yes," he said, "but I had a hard time making it."

"There is no excellence without great labor," I said.

"That's true," he said, but there is sometimes great labor without any excellence. At least I have found it so. This is a hard, hard world," he added bitterly.

"How came you to adopt this mode of life?" Tom asked after some further conversation.

"Ah!" he said, "you want to know what brought me to my present condition. I will tell you. It was liquor that did it. From my earliest recollections I have had an appetite for strong drink. I came honestly by it. My grandfather was killed in a drunken fight, my uncle (father's only brother) spent the last years of his life in a lunatic asylum, and my father died with delerium tremens. Well do I remember that dreary, December day when father died! How vividly that death scene rises



before me now! The low murmur of the sighing wind; the dying rays of the setting sun, stealing softly through the faded curtains: the pale, patient face of my mother, as she bent over father's bloated form and bathed his throbbing temples; and the horrid shrieks of my father, as he waved and tossed in wild delirium, formed an impression which time can never efface from memory. Strange, you think, that I should have become a drunkard after such a lesson as this. That is because you do not understand the power of a drunkard's appetite. It is all nonsense to talk of controlling by will power. The truth is the will is the first victim to the deadly beverage. Why. I have seen the time when I would wade through fire, or face a loaded cannon for a glass of liquor, and yet it wasn't the liquor I wanted: it was to quench the fires of my burning appetite. I never intended to become a confirmed drunkard.

"Like thousands of other young men I thought I could drink moderately. I loved liquor, but I fancied I had will power sufficient to control my appetite. After the death of my father, mother sold our little home in New Hampshire, and moved to Ohio. Here we rented a small house and lot, and mother took in washing, while my brother and I hired out to a neighboring farmer; by this means we managed to support the family, although, for a time, the struggle with poverty was a hard one. By careful self-sacrificing economy, mother managed to lay by a small sum of money, and at the age of seventeen I was sent away to school. There I fell in with fast companions, and my habits already formed grew upon me rapidly. I made great advancements in my studies, and graduated with high honors at the age of twenty-three. A bright future seemed opening before me. Scores of friends thronged around me, and grew enthusiastic in sounding my praises. They said I was a genius, and perhaps I was; but what matters it how bright the flower, after it has been blighted by the winter's blast, or how brilliant the meteor after it has gone out in the midnight blackness.

"After leaving college, I secured a situation as teacher in the public schools in the

village of N——; and for a time did well; but as time went on, the coils of the deadly serpent tightened, and soon I fell a hopeless and helpless victim. My friends did everything in their power to reform me, but in vain. Repeatedly I signed the pledge, but as often violated it. Again and again I struggled to rise, and in the strength of manhood to shake off the shackles that bound me, but the chain of habit was too strong to be broken, and I only sank the deeper in hopeless deep. You may talk of reforming men by moral suasion, but I tell you when once the fatal habit is formed there is little hope. You may tell the victim he is drinking poison; he knows that already: tell him he is wrecking his fortune, destroying his constitution, and hurrying downward to irresistible ruin; nobody knows that better than he does; tell him that he is bringing unhappiness to his friends, and blighting his brightest hopes; he knows only too well the truth of this; yet he drinks on—drinks while disease tortures his shattered frame and delirium preys upon his rum-shackled brain, drinks while death waits at his door, and horrid dreams shriek out his doom, drinks while his children are clad in rags, and his heart-broken wife pleads from the desolation of a drunkard's home! As long as liquor is to be had, the drunkard will have it. His appetite knows no logic but necessity. It's nonsense for temperance men to preach and lecture to the confirmed drunkard, while they license two or three hundred thousand men to sell him liquor. If temperance men really want to reform the drunkard, they ought to remove temptation from his way.

"But to resume my story. While at college I made the acquaintance of an esteemed and respectable young lady named Smith. I have her picture now," and he drew from beneath his tattered rags a miniature, exhibiting a face of remarkable beauty.

"Pretty good looking girl," said Tom, examining the miniature.

"Yes," he said, "and she was as good as she was beautiful; a true woman in every sense of the word; gentle, affectionate, refined. But why enumerate her virtues?"



## SEED-TIME AND HARVEST.

The very mention of them is but a mockery to her memory."

"You loved her?" said Tom.

"Loved her!" He repeated the words with bitter emphasis, and a wild look, like that of some hunted animal, came over his countenance as he added: "I killed her! You see, we were engaged to be married, and it was within a week of the time set for the wedding. I had gone to the village saloon, as usual, and was drinking liquor with some low companions. Suddenly a dispute arose, high words were succeeded by blows, and in the fight which followed I drew a revolver, and in a fit of intoxication shot one of my companions. He lingered but a few days. I was placed in the hands of an officer and taken to jail. When the news of my dreadful crime was borne to my intended bride she uttered a wild cry of horror and alarm, and fell insensible. All that medical skill could do was done to restore her to consciousness, but in vain. The terrible intelligence had done its fatal work.

"It was not until morning that I realized what I had done. As I started from my drunken stupor, and saw the cold, gray, morning light gleaming through the iron grate of my cell, a sickening sense of my situation came over me.

"I was a criminal—a murderer!"

"How like horrid spectres those thoughts haunted me! Suddenly, the rattling of a key was heard, and the huge iron door turned on its rusty hinges. I turned and saw my mother entering, followed by my sister. I shall never forget how mother looked. Her step was feeble, her form was bent, her eyes were red with weeping, and her face was pale and haggard. 'Oh my son!' she exclaimed, throwing her arms about me, 'who ever thought it would come to this?' 'It was rum that did it, mother,' I answered in a choked voice. 'Yes,' she said, sobbing, 'it was that horrid stuff, rum. Oh, what a curse it is! Would to God there was no such thing in the world as liquor. I know you could never have done it if it hadn't been for that. Why don't men, Christian men, rise up in their manhood, and close these dreadful dens where liquor is sold; where boys are led to ruin;

where men go in human beings and come out wild beasts?"

"My sister spoke but a few words. Her face was deadly pale, and a settled expression of hopeless despair rested upon her countenance. Soon the click of the lock and the creak of the heavy door announced the jailer's approach, and mother and sister were compelled to go. Oh, what a parting that was! Mother went out slowly, leaning heavily upon sister's arm. I never saw her again. The terrible stroke was more than she could bear. She sank under the sudden blow and never rallied. When my trial came off she was too ill to attend, and she died within a week afterward. I was sentenced to seventeen years in the penitentiary. For seventeen years I was a sober man. The State has provided one place beyond whose portals the legalized monster of death cannot pass. Words cannot tell what I suffered during those seventeen years. O, what a flood of bitter thoughts swept and surged through my soul as I recalled the scenes of the past. Sometimes my imagination carried me back to my little home in New Hampshire, and I heard once more the birds singing in the trees, and listened to the low murmur of the little brook, as I fished upon its banks, or played hide-and-seek upon the rocky hillside; and then the scene changed and I was a school-boy, hurrying to school with a quick step and light heart, and the dreaming of happy days to come, when wealth and honor and fame should be mine. And then again I was a student at college, the favorite of the school and the flower of my class, and my boyhood dreams seemed hurrying to a happy consummation. And then, like a black cloud which obscures the summer's sun, a sense of my situation slowly crept over me, and the phantom bark of fancy was suddenly wrecked upon the dark rocks of reality.

"Perhaps you think that seventeen years' imprisonment reformed me; but there you are mistaken. Like the fabled furies of old, the drunkard's appetite never deserts him, but haunts him day and night with sleepless vigilance. Never once, during those dreary years of confinement, did my old love for liquor leave me; and I had



not been out of the prison twenty-four hours until I was beastly drunk. From that time, I have led the life of a tramp. Why choose a higher calling? I am the obedient servant of my appetite. I have pawned the very clothes I wear for liquor. And here I am, a miserable drunkard, without money, without a home, without hope. I can't last many years longer at best, and the sooner it's over the better."

Here the tramp was stopped by a fit of coughing. He did not resume the conversation, and after remaining a short time longer, Tom and I started for home. What became of the tramp I am unable to say. I have never seen or heard of him since; but I have thought many, many times of his strange story and the lesson it teaches.—*L. T. Murphy, in Farmers' Advance.*

## Editorship.

THE *Louisville Courier-Journal* aptly says: "Some people estimate the ability of a periodical and the talent of its editor by the quantity of its original matter. It is comparatively an easy task for a frothy writer to string out a column of words upon any and all subjects. His ideas may flow in one weak, washy, everlasting flood, and the command of his language may enable him to string them together like bunches of onions, and yet his paper may be but a meager and poor concern. Indeed, the mere writing part of editing a paper is but a small portion of the work. The care, the time employed in selecting is far more important, and the fact of a good editor is better shown by his selections than any thing else; and that, we know, is half the battle. But, we have said, an editor ought to be estimated, his labor understood and appreciated by the general conduct of his paper—its tone, its uniform, consistent course, aims, manliness, its dignity and its propriety. To preserve these as they should be preserved is enough to occupy fully the time and attention of any man. If to this be added the general supervision of the details of publication which most editors have to encounter the wonder is how they find time to write at all.

## I SCREAM.

Tell us not in mournful numbers  
That this life is but a dream,  
When a girl that weighs one hundred  
Gets outside a quart of cream—  
And then wants more.

—*Elmira Gazette.*

Life is real, life is earnest,  
And the girls know what they need,  
But on cream they are the biggest  
Set to show their grit and greed.  
No encore.

—*N. Y. Times.*

Be not like dumb, driven cattle,  
Be a hero in the strife;  
Never with her mother battle,  
Save the ice-cream for your wife.  
Proceed.

—*Brooklyn Eagle.*

Let us then be up and doing,  
With a heart for any fate;  
But never let us go a-wooing  
• Girls that want another plate.  
How's that?

—*Meriden Newsboy.*

Lives of such girls all remind us,  
As we float adown the stream,  
That the boys who come behind us  
Will have to pay for lots of cream.  
• N-e-x-t.

—*Yonkers Statesman.*

And, departing, leave another  
Bill for unpaid plates of cream,  
Which, perhaps, some forlorn brother,  
• Seeing, may take heart again.  
And get trust also.

—*N. Y. E. R. Journal*

Not enjoyment, and not sorrow  
Is our destined end or way;  
But to treat, though cash we borrow,  
Deserted when we cease to pay.  
Don't it?

—*Palmer Journal.*

Trust no girl, however pleasant,  
With one plate to be content;  
She'll eat until her lover hasn't  
To his name another cent.  
And then shake him.

—*Somerville Journal.*

We don't credit these vile slanders  
On the gentle maiden's art,  
Freeze to one and you'll find she carries  
A warm, palpitating heart  
That has never yet been chilled by all the  
ice cream these miserable fellows ever went in debt  
for on her account,  
And don't you forget it.

Have you seen Reed's advertisement on page 24. Look at it and order at once and you will not regret it. He will do just as he says he will. Send you 12 choice Concord vines for \$1.00. A good crop, second year. Order now.



### The Potato-Bug's Doom.

The decline and fall of the Colorado potato-bug should be a warning to all other insects and might even serve as a hint to the English sparrow. Starting from his mountain home in the far West, where he had long been content to feed upon some modest weed, his awakened ambition carried him to every part of the United States and even to benighted Europe. Announcing himself as the terrible *Doryphora Decem-lineata*, and caring not a whicker for the liberties of his country, he passed through all the magnificent scenery of the Western regions and descended upon the fertile potato patches of thirty-six—or perhaps thirty-seven—States, carrying desolation in his path and everywhere proclaiming starvation to the human race. The wail of the impoverished farmer was music to his ear, and he would laugh and make puns to the effect that he was the great devas-tator. He had stripes upon his back, in mockery of the flag, and his children were of an Indian red, such as painters put on the window sash. Scoffing at Malthus, he multiplied and multiplied but he did not replenish the earth. For years he ruled and terrorized. But there came a turning-point. Other bugs began to be born or to appear, who, envying him his greatness, formed combinations against him. It was agreed that the little lady-bug should feed on his eggs and that an ugly, dust-colored bug, put up like a six-cornered kite on legs and calling itself the soldier-bug, should jab its lance into him on every occasion, while some kind of a fly volunteered to buzz around and fill him with something that he would take into the ground with him, and that would produce death. Still other insects swore they would do what they could and the farmers bought Paris Green, with which the potato vines were sprinkled. The result was that the great unassisted emigrant from Colorado, the victor of seventeen hundred thousand fields, began to so diminish in numbers that potatoes once more came to be known as an article of human diet, and in the year 1883 he had fallen off so vastly as to cease to be feared even by children. Poor, ambitious fool! He thought to make for himself an imperishable name, but he

only succeeded in spreading the name of the insignificant State of Colorado, which territory he had scorned and abandoned. Verily, pride goeth before a fall.

### THE BOTTLE.

BY W. B. DERRICK.

What goes in as "RED RUM" turns out "MURDER."

-RUMRMUR-  
 -R E R-  
 -E D E-  
 -D R D-  
 -REDR U RDER-  
 -REDRU M URDER-  
 -REDRUM R MURDER-  
 -EDRUMR E RMURDE-  
 -DRUMRE D ERMURD-  
 -RUMRED R DERMUR-  
 -UMREDR U RDERMU-  
 -MREDRU M URDERM-  
 -REDRUM R MURDER-  
 -EDRUMR E RMURDE-  
 -DRUMRE D ERMURD-  
 -RUMRED R DERMUR-  
 -UMREDR U RDERMU-  
 -MREDRU M URDERM-  
 -REDRUM -- MURDER-

EXPLANATION.—Begin at the top on either side and read toward the centre and down to the bottom of the bottle, RED RUM, RED RUM. Next commence at the bottom and read either to the right or left and up to the mouth of the bottle the terrible warning, MURDER! MURDER!! MURDER!!!

### A Spider Story.

ONE chilly day I was left at home alone; and after I was tired reading "Robinson Crusoe" I caught a spider, and brought him into the house to play with. Funny playmate, wasn't it? Well, I took a wash basin, and fastened up a stick in it like a vessel's mast, and then poured in water enough to turn the mast into an island for my spider, which I named Crusoe, and put him on the mast. As soon as he was fairly cast away, he anxiously commenced running round to find the main land. He'd scamper down the mast to the water, stick out a foot, get it wet, shake it, run around the stick and try the other side. and then run back to the top again. Pretty soon it



became a serious matter to Mr. Robinson, and he sat down to think it over. And in a moment he acted as if he wanted to shout for a boat, and was afraid he was going to be hungry. I put treacle on the stick. A fly came, but Crusoe was not hungry for flies just then. He was homesick for his web in the woodshed. He went slowly down the pole to the water and touched it all around, shaking his feet like pussy when she wet her stockings in the grass, and suddenly a thought appeared to strike him. Up he went like a rocket to the top, and commenced playing circus. He held one foot in the air, then another, and turned around two or three times. He got excited and nearly stood on his head, before I found out what he knew, and that was this, that the draught of air made by the fire would carry a line ashore on which he could escape from his desert island. He pushed out a web that went floating in the air until it caught on the table. Then he hauled on the rope until it was tight, struck it several times to see if it was strong enough to hold him, and walked ashore. I thought he had earned his liberty, so I put him back in the woodshed again.—*Hearth.*

### Taking Care of Flowers in Fall.

BY EBEN E. REXFORD.

IT IS a firm belief of mine that it pays to give such shrubs and plants as are considered hardy enough to withstand the rigor of our northern winters, protection in fall. They may not exactly need it, or, in other words, they may be able to get along without it, but they will do enough better next season to pay for all the trouble it is to put coarse litter about them, or to lay the tops down and cover with earth or branches of evergreen. I give my hardy roses such protection, and they come out in spring with every shoot alive to the tip and their flowers are larger and finer than those borne on bushes not so protected. The fact is, our long and severe winters exhaust the vitality of our hardiest plants, or, if they do not exhaust it, they weaken it to a dangerous extent.

In November, or, if the season is un-

usually cold, in October, lay down roses, honeysuckles, wistarias, bignonias and such shrubs, and cover the branches with earth. Before laying them down it is a good plan to heap earth about the base of the plant. Over this heap of soil the branches can be bent without danger of breaking them. If they are stiff and inclined to resume their upright position lay a sod on them to hold them in place. If litter is used about the plant it can be dug into the soil in spring and will help to enrich it. I propose to use earth about the base of the plant, however, because it is more compact, and is not likely to scatter so many seeds. If the plant to be protected is a comparatively hardy one, like the June roses, branches of evergreens will afford sufficient protection, and can be easily moved in spring. Do not be in too great a hurry to uncover. One swallow doesn't make spring, and one or two warm days can not be taken as an assurance that warm weather has really come. If a plant is uncovered too early in the season the frosts and thaws which ensue will be quite likely to damage it. Better wait until you feel sure there is no danger to be anticipated in that direction. The plants will not grow until warm weather comes, if you do uncover them early, and they are better off under their protection.

Peonies and lilies will be all the fairer for a covering of straw, or leaves. Pansies are the only flowers which should not be covered up in protecting them. If you cover them they suffer by it, but they like to have leaves scattered over and among them.

I prefer to trim roses, honeysuckles and such plants as bear flowers on new growth, when I lay them down in fall. The *Hydrangea Grandiflora*—one of the best shrubs of recent introduction, by the way,—should be cut back quite severely, leaving strong and healthy buds to produce shoots from which next season's flowers are to be borne. *Daphne Cneoreum* and plants of that class, which do not flower on new growth, should not be pruned until after they have bloomed. Amateurs are apt to prune all plants alike, and thus they often spoil their chances for flowers on such shrubs as make growth after having blossomed.



## Notes from the Jefferson Gardens.

BY Q. A. LOBINGIER.

We gave Kanit (German Potash Salt) a fair trial last season on cabbage and celery and were highly gratified with the result. For the celery a piece of common farm land—clay loam—was chosen. It contained about half an acre. It was carefully plowed and subsoiled and furrowed out with a common plow, as is often done for potatoes, the drills being three feet apart. Bone Dust and Kanit, which had been mixed in equal parts, was sown very thickly in these drills, about three bucketfuls to a drill of three hundred feet. The clod crusher was then passed over the ground, filling up the drills and making a nice surface upon which to plant. Lines were drawn with the marker directly over these drills and the plants set six inches apart in the row. The crop made very little progress until the fall rains and cool nights came, after which the growth was remarkable and the crop the finest we ever grew. For the cabbage, street sweepings, equal in bulk to both bone dust and Kanit was added, and a small shovelful put in each hill and thoroughly mixed with a prong hoe and the plant set directly in the hill. The land was poor. It would not produce more than a medium crop of corn, and our neighbors thought it labor thrown away. But the growth was marvellous and we felt satisfied with the venture. We purchased it in larger quantities this season and feel satisfied where wood ashes cannot be had it is the best and cheapest substitute. We bought directly from the importers at \$11 per ton and paid \$3 per ton for freight.

I would caution the inexperienced about using it for lettuce as it is fatal, and, indeed, salt of any kind must be kept away from lettuce. We found it beneficial to use lime, say six bushel slacked lime to the ton, mixed with it to counteract the effects of the Magnesia contained in it.

We were a little disappointed in the new tomato, *Favorite*. Perhaps we expected too much. Planted under the same conditions and trained to stakes, it averages in size very little above our *Perfections*. But our *Perfections* (from our own carefully

selected seed) are at least a third larger than they were last year. But the *Favorite* may improve. In quality it is with us greatly superior to the *Perfection*, so superior for slicing that we will plant no other next season.

I desire to corroborate the testimony of your correspondent about blanching celery with drain tile, by the statement of an old gentleman, a native of Holland, who lives near the city and who built the first greenhouse here over thirty years ago. In his gardening days celery was a luxury and it paid to grow it well. He used the tile in lengths of one foot each and to overcome the difficulty of getting the tile over the plant, took a strip of muslin about an inch wide, and beginning at the bottom, would wind it about the plant in spiral fashion, thus drawing the leaves closely together. After the tile was on the string was easily and quickly withdrawn. For what is wanted to use before freezing weather, in private gardens, it is an admirable method.

I doubt if commercial growers, who grow by the hundred thousand and who get often but two cents per stalk, would be willing to invest in that way. The old gentleman, above referred to, sold his at twenty-five cents per plant.

I would call attention to the exceeding usefulness of the weather reports from Washington.

Through the courtesy of our local manager of telegraphy a copy of the report is sent to our office every morning at nine o'clock. This enables us to plan our work for the following day to advantage.

Our daily papers are all evening issues, and until this arrangement was made, we did not get the reports until after 6 P. M., which was too late to make preparation for the next day. Where morning papers are issued the case would be different. But there are hundreds of localities not reached by the daily papers as early as by the telegraph. Our Oyster and Ice Cream dealers find these reports of great value.

A few weeks ago, when we had a large area of ground prepared for celery plants, but were waiting for rain, the report was laid on our desk at 9 A. M. "For the Ohio Valley, local rains, followed by much cool-



er weather." That last clause settled it. For we knew if the "local rain" happened in our section it would be safe to set all the plants we wished to. So during the afternoon extra help was secured and every preparation made to hurry forward the work if it should rain. The rain came about 9 P. M., and we set out the entire lot the next day. Owing to the cool, cloudy weather for nearly two days afterward, did not lose a plant.

*Steubenville, Ohio.*

### ROSE CULTURE.

The following in regard to rose culture is condensed from the practices of a successful rose-grower: The rose delights in a deep loam, well drained and manured, although it may be seen growing thriftily in soils widely dissimilar. One should not use so adhesive a soil for a Tea or Bourbon rose as for more ordinary kinds. It always better to modify the soil according to the variety of rose. As a general rule roses should be planted in masses, in situations fully exposed to the sun, and where they will produce a fine effect. The rose will be in its prime the third or fourth year after planting, after which it will not flower so well. A new place should then be prepared for a new planting. In planting always select young and healthy plants; old plants should be rejected. Mulching will be found to be indispensable in Summer. It prevents moisture from evaporating too rapidly by the formation of a stratum of air in repose, keeping the soil cool and in proper condition about the roots. If the soil is not deep, watering will be necessary in warm, dry weather. This should be done thoroughly, rather than frequently. Deep culture should be given, however, for it is the deeper series of fibers situated in a proper medium that sustains a succession of flowers in spite of heat and drought. These beautiful flowers amply repay any attention given them, and although in some senses they are independent of careful culture, producing flowers however much they may be neglected, yet it is astonishing what a difference may be produced in them by a well-directed and tasteful application of human skill. Next to soil and situation pruning is of most importance. It requires an intimate knowledge of each class of roses to enable one to prune them properly. As a general rule most roses will flower better if pruned close in Spring. The moss and yellow roses should not be pruned so severely.

### VALUE OF COAL ASHES.

Coal ashes are usually thought of little value, and generally thrown away as a nuisance, but a gentleman having experimented with them on a limited scale, says I am inclined to a different view, not that I consider them of sufficient value to be at much expense in procuring them for general use, but for specific uses I am inclined to believe they are worth from \$6 to \$10 per ton, or will be of that benefit when applied. Than wood ashes they are undoubtedly less valuable. I have found them very useful as a mulch (having considerable fertilizing effect where they are applied) for currant bushes, gooseberries, fruit and other trees and shrubs. After their application I find that currant bushes are nearly free from the currant worm, and that the bushes remain longer in season of bearing; they long retain the foliage fresh and green, and the fruit is every way superior to bushes on which no application is made. The currants may not mature quite as early, but there is very little difference. The lateness I account for by the fact that the ashes retain the frost longer, holding the plants in check from starting the approach of settled spring weather, which is an advantage, as late frosts then do no damage.

Spread around peach trees, the effects are similar. The ashes should be applied in the fall, at the rate of three or four bushels to a peach tree four or five inches in diameter, and to other trees and bushes in proportion—deepest about the trunk and sloping away two or three feet. In the spring, after the trees have come into blossom, spread the ashes over the whole surface as wide (or wider) as the branches cover. The ashes tend to repel insect's from committing depredations—[Rural Record.

WE ENTER a household where a mother is cross and fretful; the whole atmosphere seems tainted, and we find the husband and children affected with the same spirit. When the mother is cold and stern there is a restraint which prevades the home circle. The children do not confide in her, they have never been taught that she cares for any of their amusements. On the other hand, if she enters into the pleasures and sorrows of her children, they will grow up with the idea, whatever interests them, interests her and she will have the full knowledge of their whereabouts from their own lips.

Look at Reed's advertisement of Concord Grapes on page 24. Every reader of SEED-TIME AND HARVEST should send a trial order for a dozen. You are sure to be pleased. Satisfaction guaranteed.



## IF WE KNEW.

If we knew the woe and heartache  
 Waiting for us down the road,  
 If our lips could taste the wormwood,  
 If our backs could feel the load,  
 Would we waste the day in wishing  
 For a time that ne'er can be?  
 Would we wait with such impatience  
 For our ships to come from sea?

If we knew the baby fingers,  
 Pressed against the window-pane,  
 Would he cold and stiff to-morrow—  
 Never trouble us again—  
 Would the bright eyes of our darling  
 Catch the frown upon our brow?  
 Would the prints of rosy fingers  
 Vex us then as they do now?

Ah! these little ice-cold fingers!  
 How they point our memories back  
 To the hasty words and actions  
 Strewn along our backward track!  
 How these little hands remind us,  
 As in snowy grace they lie,  
 Not to scatter thorns, but roses,  
 For our reaping by-and-by.

Strange we never prize the music  
 Till the sweet-voiced bird has flown;  
 Strange that we should slight the violets  
 Till the lovely flowers are gone;  
 Strange that Summer skies and sunshine  
 Never seem one-half so fair  
 As when Winter's snowy pinions  
 Shake their white down in the air.

Lips from which the seal of silence  
 None but God can roll away  
 Never blossomed in such beauty  
 As adorns the mouth to-day;  
 And sweet words that freight our memory,  
 With their beautiful perfume,  
 Come to us in sweeter accents  
 Through the portals of the tomb.

Let us gather up the sunbeams  
 Lying all around our path.  
 Let us keep the wheat and roses,  
 Casting out the thorns and chaff:  
 Let us find our sweetest comfort  
 In the blessings of to-day,  
 With the patient hand removing  
 All the briars from our way.

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 Wisdom from the Catalogues.
 

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MAKING LAWNS.—*James Vick.* If you want a lawn, and the ground is clear, it is best to prepare it at once and sow Kentucky Blue Grass with a little White Clover, or Lawn Grass,—which is simply Blue Grass and White Clover,—with a few other nice grasses, using at the rate of four bushels of

seed to the acre. Sow in September and the autumn rains will give it a good start. Before winter sets in give the young grass a light dressing of manure, and by the first of June you will have a good lawn if the soil was in fair condition. In preparing soil for a lawn see that the surface is light, for it is hard to make the young grass come up in a hard soil that will bake on the surface. After the grass once gets started there will be no trouble. If the soil is stiff and likely to bake, after sowing the seed and raking it in, cover the surface with about an inch of manure and let it remain until the grass is well up, then rake off a little of the coarsest.

SEEDS BEST SOWN IN THE AUTUMN.—*James Vick.* Most people have observed, no doubt, that self-sown seeds, that is, seeds that have dropped from the growing plants of the previous season, sometimes produce the strongest and most healthy plants that bloom the most freely. This is true of several kinds, and particularly of those that suffer under exposure to our midsummer suns. The reason is that self-sown seeds get a very healthy growth in the spring, vegetating as soon as frost is gone, and are good sized plants at the time we usually put seeds in the ground, even if they do not start in the fall. They thus mature and flower during the cool weather of spring. The Clarkias and Nemophilas and Annual Larkspurs are noted examples. There are also several varieties of Hardy Annuals which do well with spring sowing that will bear autumn sowing in the open ground, and reward us with early spring flowers. Sweet Alyssum and White Candytuft will give us abundance of white for early cutting, if sown in the autumn. In a sandy soil the Portulaca may be sown in autumn with good success. Seeds of biennials and perennials, if sown early enough to produce strong little plants, will flower the next summer; Pansies and Chinese Pinks, though they bloom the first summer if sown in the spring, will make much stronger plants and flower more freely and earlier if young plants are grown in the autumn.

BEFORE you neglect any duty on the theory that it is unimportant, see what the ultimate bearing of the seemingly trifling thing may be.



**THE "OLE MAN'S" LAMENT.***In the Little Churchyard of the Old Homestead.*

I've jess been down ter de ole grabe-yahd  
 By de little brick church in de pines,  
 Whar de ole fokes res' in dere las' long sleep  
 'Neaf de wile rose bushes an' de vines;  
 Hit's de only place lef' fer de ole man now  
 Ter linger when de sun goes down,  
 An' think ob de fren's dat's all gone ter peace  
 In de buzzum ob de cole, cole groun'!

Hit seems ter ez I wanders 'mong de trees  
 Dat I hears de voices ob de lov'd ones agin—  
 Dat I feels dere sperrits in de a'r round about  
 An' de russle ob dere gyarmints in de win'!  
 Den I knows dat my days is drawin' ter an en'  
 An de angels at de Ribber is lookin' my way,  
 But I'se ready fer to go—I'se lonesome down heah  
 A-watchin' an' waitin' de comin' o' Day!

Some night when de owl is hootin' in de tree—  
 De watch-dog howlin' in de yahd outside,  
 Da'll be weepin' in de cabin on de hilltop dar  
 Ez de ole man's soul washes out on de tide;  
 Den a new-made grabe in de little churchyahd  
 Will show dat de las' ob de homestid race  
 Hes come ter jine wid de sleepers in de mold  
 Tell dey all wakes tergedder in de Lan' ob Grace!

**Usury.**

Our English ancestors thought that it was shameful and unchristian to demand pay for the use of money. While they never declared that the taking of interest was unlawful, they made statutes to limit the amount. In time their views changed, and they saw that it was just that a borrower should pay for the use of the money loaned him, if the charge—called interest—was not exorbitant. A trader who borrows money to use in his business, and thereby increases his profits, ought to pay for the use of the money just as he pays for the rest of his stock in trade.

In nearly all countries the rate of interest is fixed by law. In commercial countries it is also the rule that any rate of interest can be given and accepted if the agreement to pay it is made in writing. The reason for this is that the value of money like the value of any commodity is changeable. It is high when money is scarce and low when it is plenty. It is right that the dealer in money should have the same advantages as the dealer in any other article.

To take or agree to take unlawful interest is usury. If taken unintentionally, or by mistake, the agreement is binding at the lawful rate.

Money-lenders resort to many expedients to avoid the law. Some of these are allowable. A lender may deduct the interest from the face-value of the note, thus obtaining it in advance.

An agreement that a year shall be twelve months of thirty days each, for computing interest, is valid. Compound interest may be demanded and taken if expressly agreed upon, but the interest must be asked for when it falls due.

A lender, who is obliged to borrow the money he advances, may charge for the trouble of raising it. The courts, however, always watch such cases with suspicion.

When a man borrows money to put into a risky business, the lender may charge more than the lawful rate. He has a right to receive pay for the risk he incurs. It is always lawful to buy up a note in the money-market for less than its face-value.

The laws on usury do not apply to loans of anything except money. Any sum may be charged for lending articles of commerce.

Usurious agreements are worthless in the hands of the parties who make them. In some places, notes bearing usurious interest are not good in the hands of persons who bought without knowing them to be so tainted. Nearly everywhere, however, an innocent holder may obtain his money.

Modern laws have made the usury regulations of little account. To-day, in civilized lands, they are only a curiosity of ancient legislation.—*Youth's Companion.*

**FRIENDSHIP.**

BY W. B. DERRICK.

Whether in poetry or prose  
 Friendship is languaged, like the rose  
 It is admired by every one  
 For its sweet self and that alone.

True friendship doth perennial bloom,  
 And it will live beyond the tomb,  
 Shedding its sweetness all around  
 On loving hearts wherever found.

Rock of Ages—Grandpa and grandma  
 trying the new hammock.





### Young Ducks.

OUR full page engraving represents a familiar picture to the poultry fanciers, and a very pleasant one withal. A mother

duck and her eight little ones have been on a foraging expedition to the pond, shown in the back ground, and are now on their way home to which they have been warned by the approach of night. One little fellow



is dodging after some insect to supplement his supper, and two of them that have strayed behind appear to be uttering their quacking notes to attract the attention of Mother Duck who is intent on getting home as soon as possible. The picture tells the story as plainly as we can write it. We acknowledge our obligations to that excellent journal, *The Poultry Monthly* of Albany, N. Y., for the use of the engraving.

#### DAHLIA CULTURE.

Few plants make a finer show than dahlias well grown, and few flowers are more perfect and symmetrical. The tubers should be taken up in the Fall and cleaned of all earth and dried. They may then be stored loose in a barrel or box in a dry, sweet cellar. In February or the latter part of January they should be placed in smaller boxes in clean sand and watered frequently. If the cellar is moderately warm they will soon sprout, and by April or May will have made good shoots. As soon as freezing weather is done set the boxes out of doors on the sunny side of the house, and when the weather becomes settled transplant the roots to the beds or borders. Treated in this manner plants will give blossoms the last of June, while they usually are a month or more later than that. Dahlias should have a deep, rich soil. If the soil is light or clayey a good sized hole should be dug and filled with rich earth. Water the plants thoroughly and tie them up to drab colored stakes. The white varieties are generally productive of more perfectly symmetrical flowers than the yellow and red varieties.

**BREEDING OR RAISING POULTRY.**—A Texas correspondent of the *American Poultry Journal* makes the following very pertinent remarks on the difference between breeding and simply raising poultry:

There is a wide difference between the breeder of poultry and the person who simply raises poultry. There are hundreds of persons raising thoroughbred poultry, who know nothing of the principles of mating their fowls; they make up, perhaps, their breeding pens with so many hens to a cock, without any idea as to their affinity, or relative qualities, and yet they advertise themselves as breeders. Many make no selections at all, but put all to breeding, sell and hatch eggs from them promiscuously, from one year to another, and when they offer to sell eggs

at one dollar a setting, the ordinary purchaser will wonder why some people will ask from \$2.50 to \$5.00 for a sitting of eggs from the same variety of fowls, and in most cases they will buy eggs from the poultry raiser, and not the breeder. \* \* \* I find, however, that the better class of people can see the difference as soon as they visit the yards. \* \* \*

The proper mating of the breeding stock is the most important principle connected with the breeding of poultry, and yet I will venture to say, that it is less studied and experimented with than any other matter connected with the profession. Breeders, as a rule, will select what they consider the best specimens they have, but to give a reason why they place a certain cockerel in a pen with a given lot of hens and pullets, not one in twenty can do it. They take chances of raising nice fowls out of a large number, and still they will claim in their advertisements that they are mated for the best results. True, they hope to have the best results, but are unable to give a reason for the faith within them.

#### Sense and Nonsense.

##### MOSTLY NONSENSE.

A Troy lawyer asked a woman on the witness stand her age, and she promptly replied: "I sold milk for you to drink when a baby, and I haven't got my pay yet."

Keep up with the procession of life, young man; close up to the band. If you ever fall to the rear, where the elephants are, you are apt to get trod on.

The meanest man in the country lives in Missouri. He pleaded in a breach of promise suit that a contract made on Sunday night was not binding.

"Is the neighborhood much bothered with cats?" asked a gentleman, who was negotiating for the lease of a house. "It used to be," frankly answered the landlord, "but since a French restaurant was opened round the corner there hasn't been one seen."

THE present season has been remarkable for honey in Addison County, Vt. The market price is now eighteen cents per pound, but dealers say they will soon be able to purchase at less rates. The copious rains through the Spring and Summer months have induced a splendid growth of white clover, which is favorable to honey.





PROSPERITY.

### Prosperity and Adversity.

OUR first picture illustrates the prosperity of childhood. That age of life so full of sweet simplicity and joy; those sunny days that gleam like gems far down the pathway of the past in sacred memories of homes that long ago have crumbled into dust and ashes or passed into possession of strangers. As we sing Payne's "Home, Sweet Home," and Woodworth's "Old Oak-en Bucket," how the very mists of time seem to lift and rise from the valley, and reveal to eager view the little old home that was the sweetest, dearest spot on earth, with its great broad fireplace and

swinging crane where hung the chicken pot-pie boiling o'er the blazing logs, and on the hearth the biscuit baking in the oven with its embered lid, and all the joys of baking day, with smoking buttered rolls and scores of pies all ranged in rows upon the pantry shelf. And then the barn, the search for new-laid eggs, the orchard with its golden yellow fruit, the melon patch, the spring at which the pitcher filled while little Mary Jane and we shared our apples and the slice of bread.

Three cheers—Hip, hip, hurrah! for the prosperity of childhood; those days of real wealth: rich in home, rich in parents, rich in brothers and sisters, rich in the sweet





ADVERSITY.

slumbers of the trundle-bed, rich in the keen appetite of health, rich in tops and balls and marbles and mud pies. Boundless wealth that always paid dividends and never watered its stock. All the railroads in the world cannot buy back that wealth: all the steamships, all the stocks and bonds of Wall Street fall short in valuation of the real prosperity represented in the picture. Worlds and planetary systems cannot buy the sweet tranquility of childhood's simple pleasures. For a few short years they come down to us like the angels that descended on Jacob's ladder, then the ladder is drawn up, and no human power or skill

or labor can ever again in after life bridge the immensity of space.

After a while comes the first adversity, perhaps as represented in our second picture, where we stand mingling our tearful grief over the fragments of the broken pitcher. Ah! first sad mishap of our tender years! How like the "coming events" you cast your "shadows before." Our next adversity may have been when little Mary Jane moved away to a distant home never again to meet in this life; and then perhaps the "silver chord was loosened, the pitcher broken at the fountain," when death spread its shadow over the home, and some



loved one of the circle was laid to rest. Then the roof beneath which we were born with its mossy eaves and trellised vines, passed into stranger's hands, and the cold adversity of the broad world was before us, as with quivering lips and tear-dimmed eyes we walked down the path which in every age and clime begins and ends alike, from cradle to the grave.

Oh, bitter adversity! We can give you no welcome, bid you no cheer, nor drink to your good health. We can extend no hospitality to you, however often you may force your unwelcome presence upon us. We stood in our first bitter grief crying over the broken pitcher at your earliest visit, and the nodding plumes of the solemn hearse will wave above us when you come last to our door.

Go, thou despoiler of every thing but memory! that bright gleam of early life thou canst not take away!

"Let fate do her worst, there are relics of joy,  
Bright dreams of the past which she cannot destroy,  
Long, long be our hearts with such memories filled  
Like the vase in which roses have once been distilled.  
You may break, you may scatter the vase if you will,  
But the scent of the roses will cling around it still."  
— *W. A. Peters, in Household Journal.*

#### SOUND SENTIMENTS.

"Peace hath her victories no less renowned than war;"  
"The pen is mightier than the sword"—the sword all should abhor.  
Those truthful, worthy sentiments will stand the test of time,  
And while the sun sheds light on all, so, too, the pen will shine.  
— *W. B. Derrick.*

John asks, "What is eternity?" Did you ever write a letter to your girl, John? Well, eternity is waiting for her to answer it.

The newest idea is to send artificial flowers with the favorite perfume of the wearer. Just think of a rose in a St. Louis man's buttonhole, perfumed with old rye.

"How old are you?" said an ancient dame to a grinning little tar-pot. "Well, if I goes by what mudder says, I is most ten, but if I goes by the fun I'se had, I'se most a hundred."

## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. IX.

WHOLE NO., XXIII.

LA PLUME, LACKAWANNA CO., PA., SEPTEMBER, 1883.

**When does your Subscription Expire?**—On the wrapper of this issue may be found figures, opposite your name, which will tell when your subscription expires. If you find "9-83" this is the last issue you are entitled to receive, and you are earnestly invited to renew at once, as we shall not keep a supply of back numbers. "12-83" shows you are to receive the magazine for balance of this year; "3-84" takes you up to next March, &c., the first figure denoting the month and the second the year when our visits will cease unless you invite us to continue. Elsewhere in this issue will be found some very liberal premium offers which we hope will induce you to help increase our circulation.

**Our Premiums.**—It will pay you to examine the inducements we give for subscriptions to our journal. The watches we offer are just what they are recommended to be, none of the cheap catch-penny affairs so freely offered now-a-days, but thoroughly reliable time pieces that will give pleasure to their owners. The **Pocket Magnifier** is well worth a dollar, and yet you can get one and two subscriptions to SEED-TIME AND HARVEST for only One Dollar.

**Agents Wanted.**—We desire to establish a good working agent at every Post Office and will pay them well in cash if they prefer it to our liberal premiums. For only fifty cents you may promise a full year's subscription or twelve numbers of SEED-TIME AND HARVEST and a premium certificate good for fifty cents in the purchase of seeds. That ought to be an inducement for every one who is in the least.



interested in Flower or Vegetable gardening to give you their subscription at once. You would hardly expect us to make so liberal an offer as that to each subscriber and still pay you, as our agent, for your trouble in collecting the subscriptions. But we will. We will pay you liberally in cash. The amount which we will pay you must vary of course with the amount of work you do for us. But if you can devote any time to the work we shall be pleased to hear from you and will give terms which will surprise you upon application.

**Help the Puzzle Department.**—We hope that all our young friends, and old ones who have young hearts, will take an interest in our Puzzle Department and freely send answers and new puzzles to its editor. To give those in distant states a fair chance we shall hereafter give a longer time for solutions before publishing the answers. We hope and expect that better puzzles and larger prizes will be offered shortly.

**Swindling by Mail.**—Since the publication of our article under the above caption in our July number (page 18) we have received from a number of different houses letters which show that these unfortunate parties, Messrs. Bagley and Landers, of Big Creek, Ga., have mailed letters containing various sums (?) which have, of course, never been received. It appears that they have been playing that little game extensively and uninterruptedly for the past ten or fifteen years.

A communication signed "R. A. Bagley per W. W. L.," and stamped "Bagley & Landers, Dealers in Medicines, Watches, Clocks, Jewelry, Books, News, Garden Seeds &c., Big Creek, Ga.," loaned us by a prominent nurseryman in New York, in which is the old story of money lost and an urgent appeal for them to duplicate the order, is the first positive evidence we have had that Bagley and Landers are one, or at least connected in business. They probably have a little country store down there and this is a way they have of keeping it stocked. We have made no effort to ascertain whether their generous patronage has

been extended to dealers in "medicines, watches, clocks, jewelry, books, news, &c.," as well as seeds and nursery stock, but presume it has, and have no doubt that these enterprising dealers have had a long and lucrative business.

A number of seedsmen and nurserymen have written us that they have frequently had their suspicions aroused, that they were being imposed upon, by parties making similar claims, but that as they have no positive proof they must decline to publish any names. Of course, it would be very unfair to claim a fraud from a simple suspicion in a single case, but we should like to compare notes and see if any others have been so unfortunate all around as have our friends Bagley and Landers.

WE HAVE RECEIVED from the publisher, W. H. Thompson, 404 Arch St., Philadelphia, a copy of the "*American Farm and Home Cyclopedia*," which is advertised elsewhere in this issue. It is an immense volume containing nearly 1200 pages and 2000 engravings, many of which are novel and striking in the extreme. The subject matter embraces almost every imaginable subject pertaining to home and especially country life. It is compiled by Horace R. Allen, A. M., M. D., who was assisted by a host of the very best writers in this country, who were specialists in the various departments which they represent. It is truly a whole library in itself, and will afford an endless amount of instruction and entertainment to its possessor, for there is no one person so well informed upon all subjects embraced in this volume that he cannot derive much information from a perusal of its pages. It is sold by subscription and any person desiring to canvass will find it the book of the season to take the public eye, and sell itself without a great effort on the part of the agent.

WE DESIRE to call the attention of our readers, especially those who desire to purchase plants, machinery, &c., to our advertising columns where they will find the cards of many first-class firms whom it is a pleasure to recommend for fair dealing. Should you want anything in their line write to them before ordering elsewhere, and in so doing, it may be an advantage to all concerned if you will say you saw their advertisement in SEED-TIME AND HARVEST.



## NOTES AND GLEANINGS.

**BENEFITS OF THOROUGH CULTIVATION.**—Thorough culture is often recommended by our agricultural writers, for advancing plant growth and obtaining large crops, leaving out of sight other and equally important benefits. At the present time, the cultivator finds his crops infested by myriads of insect foes. All these intruders are wonderfully fond of a quiet life, and if frequently disturbed are apt to seek other more quiet places. Especially is this so with such as work beneath the soil, at the roots of plants. Frequent culture induces vigorous growth, and thus enables the plant to repel insects. A vigorous, healthy animal seldom or never becomes lousy or sickly, because it is weakness which invites the enemy. Thus we see that frequent cultivation kills more than one bird with the same stone. Rapid growth induces early maturity, and if the crop be for seed, or future planting, all the better for being thoroughly well ripened, as most crops propagated year after year in the same way, prove hardier, healthier, and seldom deteriorate in quality or productiveness, provided natural laws in other respects are followed. The many advantages of frequent, thorough cultivation, are obvious to the practical worker.—*Cor. Country Gentleman.*

A WRITER in the *Farmer's Review* says: Fourteen months ago my little wife bought twenty-two head of poultry for \$6.50—Buff Cochin, Light Brahma, White Leghorn. She has raised 440 chicks, selling most of them at 15 cents a head at three months old; eggs 15 to 25 cents; for eggs and chicks, \$55; 80 head yet on hand, less 22 head of stock, leaves 58, worth \$20; grand total, \$75 net gain. Cost of feed, \$15, which was paid in eggs for the family to use during the time, 30 head killed to eat. The feed was corn meal cooked, corn bread, bran, wheat, sunflower seed, cheat and pepper.

IT IS CLAIMED that the Poland China breed of swine has in a short lifetime become famous. Originating in the Miami valley, it is the naturally porcine development from the great corn-fields. It has shown an aptitude to assimilate corn and grass and produce pork that has astonished not only the natives but foreigners as well. In the last year choice specimens of the breed have gone to Germany, from Ohio, to compete with the best of all England and Germany. Last year pigs from Southern Ohio carried off the lion's shares of prizes at some of the leading German fairs.

BEGONIAS in summer should have a cool, shaded situation. The best plan we have ever seen adopted was a small lattice house, made entirely out of laths placed half an inch apart, sides and top alike; benches were arranged on either side, the same as in an ordinary greenhouse; upon these the plants were placed, and all the interstices were filled with sphagnum. There the plants thrived most luxuriantly; we have never seen greenhouse plants in summer look better, if as well. Not only was this the congenial home of the begonia, but all kinds of ferns, coleus and many other plants grown expressly for exhibition purposes were here to be seen in the best possible condition. This was the work of an amateur, and when his plants were placed beside those of the professional florist the latter was completely used up.

M. L. Blan, of Brest, continues his crusade in favor of the cultivation of parsnips as a forage plant where climate and soil suit, and these conditions are pretty general. The root is largely entering into the rations of horses, resulting in an economy of oats; there can be no question as to the importance of parsnips for milch cows; it is to feeding cows on them that a large part of the reputation of the Channel Islands' butter is due, and the same observation applies to the best butters of Bretagne, for in the latter country, where the brands are inferior, the cause must be attributed to objectionable methods of preparation.—*American Farmer.*

THE SUREST WAY to ascertain the age of sheep is by their front teeth. They are eight in number and appear the first year all of one size. The next year the two middle teeth fall out, and in their stead grow two large ones. The third year a smaller tooth appears on each side of the two large ones. During the next (or fourth) year, there are six large teeth. In the fifth year all of the front teeth are large. After that the only way to determine the age of sheep, is by the worn appearance of the teeth.

WITHOUT SHEEP English farmers could not keep up the fertility of their land. There are three sheep to four acres kept in England, while Americans only average one sheep to thirty-four acres.

A city chap who had escorted a country girl to the theater, thinking to please her, went out and bought some apples. When he placed them in her lap she spoke up loud enough to be heard all about: "What do you take me for—a cider-mill?" City chap collapsed; he couldn't stand the press.



## CARROTS.

I consider this one of the most valuable of our root crops, partially because of the intrinsic value of the roots themselves, and also on account of the comparative ease with which a good crop can be secured. They do not need sowing until June, after the hurry of the spring planting is over and the first crop of weeds has come up. Both of these reasons are forcible. To have to stop in the most hurrying time of the year to fit land as carefully as it ought to be fitted for root crops, is not at all pleasant. And any one who has ever grown the onion crop knows to what a great disadvantage a man is placed who is obliged to sow his land as soon as the frost is out. The weed seeds, of which there are always too many even in the best cultivated grounds, will be stimulated to growth by the working of the soil, and coming up sooner than the crop, they make a great deal of work for the first weeding. But with the carrot crop the land can lie until the weeds get up, and the preparation of the soil for the carrots insure their destruction. The air and ground both being warm, the carrot seed germinates quickly and gets the start of any weed seed which may have remained in the soil. Consequently it is not a great deal of work to see to the crop if it is grown, as such crops ought always to be, on pretty clean, nice land. A rather light, loamy soil which is free from stones, suits this crop well. If the land is rich, or was highly manured last year, it will not need a great deal of fertilizing material to enable it to produce a good crop of carrots. A little gunno, or half a ton of flour of bone per acre, well harrowed in, would benefit the crop, and in the fact that it contained no foul seeds, would have an advantage over stable manure. Although the Long Orange is a favorite variety, I prefer the Short Horn. This, matures quickly, yields better, and is a great deal easier to dig.

It is less work to feed carrots than turnips, because they can be cut much more readily. Horses thrive upon them, and for cows which are giving milk, carrots are among the best of foods. They not only keep the system in good condition, but also increase the quantity of the milk, and give a fine color to the butter. For farmers who keep horses or cows and who have land any ways suited to the production of this crop, I think a few carrots will pay as well as anything which they can grow for their stock. [City and Country.

A CORRESPONDENT of the New Hampshire Mirror and Farmer states that his remedy for

protecting cabbage from the green worm is to sift a little wheat flour on the cabbage while it is wet with dew once every week or ten days. One pound of flour is sufficient for 200 plants, and can be applied with a mustard box, having small holes punctured in the cover. The remedy is simple and harmless.

AS THE COUNTRY GROWS OLDER the wells do not give as good water as they did when first dug, particularly if near houses and barns. In time the soil through which water percolates becomes saturated with offensive matter, and sometimes streams of filth find their way to the well from cesspools and stables. Rain water from the roofs of houses after being filtered is much better and always safe and pure.

Dr. Hoskins, of Vermont, says: "Very few persons know the productiveness of the garden strawberry under good cultivation. I have picked as many as four two-gallon basketfuls from a square rod at a single picking. Crops of 200, and occasionally over 200, bushels to the acre are reported, and 150 bushels are only a fair crop. At 10 cents a quart the crop will give a return of \$470 per acre, more than half of which is clear profit."—Mirror and Farmer.

AN Indiana Farmer walked into the house the other day with a tickled look upon his face and his hat on his ear, and called out:

"By gum! Hanner, what do you think?"

"What's happened now?"

"You know that fellow that sold me the churn, and had me sign a paper?"

"Yes."

"Well, that paper was a note for \$50."

"Noa?"

"True as preaching. And what do you suppose?"

"He sold it."

"Right you are. Went and sold it to a bank in Vincennes, and I've got to pay it. Think of it, Hanner—my note good 'nuff to be sold to a bank four stories high, and plate-glass windows, and they send me the same kind of a notice to pay as they do a rich man. I must let Sims hear of it some way. The Sims family look upon us as scrubs, and here we are treated the same as if we rode in a fine kerridge behind four horses."

"You have a distinguished company," remarked old MacShoddeigh, who was the first to make his appearance at a select supper given by his city friend. "Distinguished! the deuce!" said the host. "They are the waiters. Very few of the guests have arrived."



## LETTERS FROM THE PEOPLE.

## THE GEN. GARFIELD TOMATO.

Hamlet, Ill., Aug 20, 1883.

Dear Sir: The General Garfield tomato with me is worthless, the worst tomato I have planted for over twenty years; it rots very badly, is difficult to prune and although the fruit is large it is so fluted the women folks will not use it. I have twenty-five vines of that variety, and if I had only known, five plants would have been amply sufficient. Too bad to give a good man's name to such a poor article. I may write again before the year goes out and tell you about my success with the other seeds. M. D. DUMBELL.

ANSWER: Just our experience exactly. We had never before grown the Garfield but took it on the recommendation of the introducers. We now vote it comparatively worthless. Livingston's Perfection is our stand-by. We shall be pleased to learn how many of our friends have found a better variety when grown and compared with it.

## RUBBER STAMPS.

Trenton, Tex., Aug. 17, 1883.

Mr. I. F. Tillinghast: Dear Sir, I first saw your advertisement in some paper and sent you an order, and I must say that I liked you better than any seed dealer I have dealt with. I did not send for seeds last year for I had moved my location. I have received SEED-TIME AND HARVEST regularly, however, with many thanks. Please continue to send it and I will make it all right.

I wish to know of some one who manufactures Rubber Stamps. That fellow—F. P. Hammond—who wrote you to stop the free gift of SEED-TIME AND HARVEST, must have been a fool for the want of sense for he is the very fellow I want, for I am in need of a rubber stamp. Please let me know where I can get one or have some one to send me a circular. In future I will be a regular customer and will help you all I can as I have done in the past. Truly Yours,

DR. W. C. HOLMES.

ANSWER: We send you by mail the address of a good firm in the Rubber Stamp business. Thanks for your kind words in our behalf.

## USE OF PLASTER.

Holmes Mills, O., Aug. 20, 1883.

Mr Editor: What I want to know at this time is if the Cayuga Plaster Company of Cayuga Co., N. Y., are reliable, or if their land plaster gives good results when drilled in with wheat. I thought of getting some of their plaster

for my wheat this fall if it gives good results.

Yours &amp;c., ALEX. C. CUNNINGHAM.

ANSWER: The firm you mention is a perfectly reliable one and their goods will no doubt give satisfaction when properly used, but we doubt whether any land plaster will pay very largely when drilled in with wheat. Our idea of the use of gypsum or "plaster" is that it is best to sow it on the plants. We believe that its use as an absorbent, in collecting ammonia and nitrogen from the atmosphere, is far more important than any virtue which can be got from it by the plants when buried in the soil. This is a subject we shall be pleased to hear from any reader who has experimented, whether his views correspond with ours or not. If we wished to drill something with wheat we should select bone phosphate, wood ashes or something which we think has more strength in itself than gypsum. Bury your phosphates but keep the gypsum on the surface, on the plant itself if possible, unless you first mix it with some nitrogenous manure to prevent the gases from escaping.

## CASTOR OIL FOR INSECTS.

Grand Bay, Ala., Aug. 14, 1883.

Dear Sir: Tell the readers of SEED-TIME AND HARVEST, that they will find nothing as good as Castor Oil for cabbage worms or any other kind of bug. Kerosene is very good but does not last long enough. I will sometime write what we "truckers" are doing here. Respectfully,

JULIUS SCHNUDELBACH.

## PEDIGREE OF POTATOES.

Plainfield, Ohio., July, 20, 1883.

Mr. Tillinghast. Dear Sir,—I would like to have the pedigree of the potatoes I bought of you in the spring. The varieties are as follows: Early Beauty of Hebron, White Elephant, Wall's Orange, Early Telephone and Belle.

My potatoes look very well, especially the Wall's Orange, they are the admiration of all who see them. I think some of the vines would measure four feet in length. I planted single eyes and the vines completely cover the ground. I think my Belle potatoes are a little mixed with the Peachblow. Otherwise I like their appearance very well. The vines of the Early Telephone are quite small. Do they generally grow that way? Yours &c.,

CHAS. E. NELSON.

ANSWER: We really do not know that we can give you the information you desire in a shape that will be of much benefit to you. The Early Beauty of Hebron is a seedling which originated with Mr. E. L. Coy of West Hebron,



Washington Co., N. Y. We do not know its parentage. The White Elephant we think originated in the same locality, not as a distinct seedling, but from a sport of the Beauty of Hebron. The Wall's Orange is a seedling of the old Whipple seedling and was produced by Mr. Lyman Wall of Webster, Monroe Co., N. Y. The Early Telephone is we believe a seedling from the Snowflake, produced by Mr. E. S. Brownell of Essex Junction, Vt. The Belle is a seedling from Early Rose, produced by a gentleman in Broome Co., N. Y. On account of its great vigor and productiveness it rapidly spread around the neighborhood and vicinity of its parentage, under the name of Rose Seedling. As there are so many Rose Seedlings or seedlings of Early Rose we sent it abroad under the name of Belle, and we believe it is one of the few new things which has been worth more to the world than the world was required to pay for it. The mixture you speak of is not Peachblow. There always was a variation in the appearance of the tubers of this variety, which we mentioned when first offering it. The Telephone always produces very short, compact vines, similar to its parent, the Snowflake, which it closely resembles in all respects, some even claiming them to be identical.

#### LICE ON CABBAGE.

Sunderland, Vt., Aug. 25, 1883.

I. F. Tillinghast; Dear Sir, Will you please tell me what causes lice on cabbages? Will they do any harm? And what will kill them? I have a fine lot of cabbages, but the early ones are covered with lice and also some of the late ones. By answering the above questions you will do a customer a great favor. Yours Truly,

W. H. GREGORY.

ANSWER. We cannot give any satisfactory explanation of the cause or origin of lice on cabbages. They will occasionally appear in countless numbers without apparent cause. The best remedy we have ever known is a sprinkling of Dalmatian Insect Powder, which we can supply as per advertisement elsewhere in this issue. It is sure death to all forms of insect life.

#### LIMING POTATOES.

Baker's Summit, Aug. 22, 1883.

Mr. Isaac F. Tillinghast: Dear Sir, I have a very nice patch of potatoes, the tops of which have been struck with mildew, and the crop is threatened with rot. I hear it is recommended to mow off the tops. Do you think that will have any effect upon the crop? I was afraid to try it until I heard from you. My early pota-

atoes are rotting badly. I put air-slacked lime on them. Will that damage the quality of the potatoes, or will it kill the eye? Some say they will not grow if lime is applied.

Yours Truly, JOHN S. KING.

ANSWER: We frequently sprinkle a little lime, enough to whiten the tubers, through the pile when storing potatoes, and believe it has a tendency to check or prevent the rot. We have never observed any bad effects from the use of lime in this manner. We cannot say positively whether cutting off the vines as soon as struck by blight, would check the tendency to rot or not, but doubt its proving effective. Potato vines have blighted badly in this vicinity this season and crops will be very light.

Neal Dow has figured it up, and says \$1,300,000,000 is spent for drink annually.

IN THE aggregate last year about 300,000,000 cans of preserved American products were consumed.

Republics are not always ungrateful. The United States has paid its soldiers \$700,000,000 in pensions.

IT IS REPORTED at Montreal that James McShane, M. P. P., has entered into a contract with the French Government to ship 15,000 head of prime cattle into France.

Fifty years ago, a half-dollar would buy a whole turkey or a brace of roasting pigs out in Ohio. It will not buy more than a bite of either edible in these degenerated days.

A GOOD MANY imported cattle are being quarantined on the farms of their owners, in New York and New Jersey, on account of the overcrowded condition of the quarantine stations.

E. P. Densmore of Lombardy, Va., recently sawed 545 feet of inch boards from a poplar log which eighty-two years ago was a riding stick used by a Mrs. Sargent as she rode on horseback when she moved to Washington, where she stuck it in the ground.

"THE BEST schools the world over," says Prof. Wickersham, "are to be found among people who tax themselves for their support, and education is universally held in the highest esteem by those who have been taught to pay for it with money from their own pockets."

A little boy and girl out in the west end of town were discussing the stars. The little boy said they were worlds like ours and have people on them. The little girl, with all the disdain she could muster, said: "They are not; they are angel's eyes, 'cause I saw them wink."



## OUR CLUBBING LIST.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST, (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

|                                    |        |
|------------------------------------|--------|
| American Agriculturist.....        | \$1.10 |
| American Rural Home.....           | 1.00   |
| Agricultural Epitomist.....        | .40    |
| Country Gentleman.....             | 2.25   |
| Demorest's Magazine.....           | 1.75   |
| Farm and Garden.....               | .35    |
| Farm Journal.....                  | .35    |
| Farm and Fireside.....             | .50    |
| Fruit Recorder.....                | .75    |
| Floral Cabinet.....                | 1.00   |
| Gardener's Monthly.....            | 1.75   |
| Green's Fruit Grower.....          | .20    |
| Household.....                     | .90    |
| Harper's Magazine.....             | 3.50   |
| New York Tribune, Weekly.....      | 1.25   |
| New York Tribune, Semi Weekly..... | 2.20   |
| Poultry World.....                 | 1.00   |
| Practical Farmer.....              | 1.00   |
| Rural New Yorker.....              | 2.00   |
| St. Nicholas.....                  | 2.75   |
| Scientific American.....           | 2.75   |
| Scribner's Monthly (Century).....  | 3.60   |
| Toledo Blade.....                  | 1.25   |
| Vick's Monthly.....                | 1.00   |
| Western Plowman.....               | .50    |
| Youth's Companion.....             | 1.75   |

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

## THE EDITOR'S TABLE.

ARTHUR'S MAGAZINE for September has an excellent table of contents and to those who love good, interesting literature it offers a feast alike seasonable and sensible. The frontispiece is a fine engraving of The Alhambra with descriptive text in an article, Shores of the Mediterranean, by Harriette Wood; and several other illustrated articles among which are "Kate Greenaway," "A Mother's Joy," "The Reed Warbler," "Grasshoppers, or Locusts," "The Tiger" and many other articles of merit. Arthur is ever new, ever bright, a thing of beauty and a joy forever.

THE elegant colored plates given with VICK'S MAGAZINE make it much sought after by all lovers of flowers and art, and the text generally does honor

to its editor. Its make-up is all that could be desired. The August number has articles on "The White Clematis" descriptive of the colored plate; "Improving Varieties," "Flowers in Middle Florida," "Best Flowers for the House," and as Auction Bills usually say, many other articles too numerous to mention.

THE PRACTICAL FARMER published weekly, by the Farmer Co., Philadelphia, has improved very much for the past year or two and is now one of the first agricultural papers in Pennsylvania. "Agricultural," "Stock," "Dairy," "Horticultural," "Poultry," "The Apiary," "Home Circle," "The Housekeeper" are the titles of some of its departments and each seems to be well conducted. \$2.00 per year.

THE FARMER'S REVIEW, Chicago, Ill., is pretty well filled every week and thoroughly devoted to farmers' interests. Its weekly crop reports from nearly every county of the Western States is a valuable feature and one that might prove profitable to many of our eastern farmers in showing them when to hold and when to sell a crop. \$1.50 a year.

THE FLORAL INSTRUCTOR, gives monthly directions for the care of most flowering plants, with much other interesting matter. Published by Spalding & McGill, Ainsworth, Iowa, at 50 cents a year.

## Sense and Nonsense.

## MOSTLY NONSENSE.

A nice judge, when asked why he had allowed a totally unnecessary female witness to take the stand and testify, said: "I knew that she was not necessary, but I saw that she had a new bonnet and was striving to show it."

"Sam, you are not honest. Why do you put all the good peaches on top of the measure and the little ones below? "Same reason, sah, dat makes de front ob your house all marble and the back gate chiefly sloop bar'l, sah."

A servant applying for a situation was asked the reason of her having left the last place. "Please, ma'am, it were because I were too good-lookin', an visitors was always mistakin' me for the missis."

"How came such a greasy mess in the oven?" said a figety old spinster to her maid-of-all-work. "Why," replied the girl, "the candles fell into the water and I put them in the oven to dry."

"A reputashun," says Josh Billings, "once broken may possibly be repaired, but the world will always keep its eyes on the spot where the krack was."



Puzzle Garnerings.

EDITED BY FRANK S. FINN.

All Communications intended for this Department should be addressed to Frank S. Finn, No. 153, Massabesic Street, Manchester, N. H.

Answers and original contributions solicited from all.

ANSWERS TO AUGUST PUZZLES.

1.—“Good husbandry is good divinity.”

2.—P l u s H  
R o l l A  
I n f e R  
M a i z E  
R h o m B  
O v a t E  
S e p a L  
E q u a L

3.—MEADOWS  
E N T I R E  
A T O N E  
D I N E  
O R E  
W E  
S

4.—Portulacca.

5.

1. P A n t h e r  
2. R A n k l e  
3. A M a z e.

6.

1. C r o w D  
2. P l a n T  
3. P a l m Y.

SEPTEMBER GARNERINGS.

No. 7. NUMERICAL ENIGMA.

The answer, composed of 39 letters, is an old-time weather saying.

The 1, 29, 2, 5, 3 is precipitous.

The 30, 15, 16, 4 is gentle.

The 24, 6, 10, 35, 9, 14 are hot cinders.

The 7, 8, 20, 11, 12, 13 is a loud outcry.

The 17, 19, 32, 18 is a color.

The 25, 37, 28, 21 is a weapon.

The 38 31, 36, 22, 23 is dirt.

The 33, 26, 27, 39, 34 is veracity.

DYKE CLEMENTS.

No. 8. WORD SQUARE.

1. A large ship. 2. Active. 3. Cleft.  
4. Watchful. 5. Small coins.

UNDINE.

No. 9. HALF SQUARE.

1. A vegetable. 2. Otherwise. 3. An ornament. 4. A piece of cloth. 5. A bone. 6. A consonant.

BESSIE GRAHAM.

No. 10. DECAPITATIONS.

Beware the *whole* of sin and vice!  
Although they come in garb so nice  
That, at first view, they may allure;  
They'll end in naught, you may be sure;  
That's good; but will *behead*; so take  
Fair warning, trying hard to make  
Your lives to all your friends a joy.  
*Behead* again 'gainst all annoy  
Of vain enticements that but lead  
To evil, sowing fruitful seed  
Of which the harvest, reaped by death,  
Pollutes the last expiring breath.

BYRNEHC.

No. 11. CROSS WORD ENIGMA.

In mingle, not in blend;  
In submit, not in bend;  
In borrow; not in lend;  
In repair, not in mend;  
In profit, not in gain;  
In afflict, not in pain;  
In gentle, not in kind;  
Whole; an animal you will find.

FRED A. BRYANT.

No. 12. DROP LETTER PROVERB.

(Every other letter is omitted.)

H-n-e-i-t-e-e-t-a-c-

LITTLE SUSIE.

ANSWERS in November number.

PRIZES.—A book will be given for the best list of answers; a package of visiting cards, with the winner's name thereon, for second best list.

Answers must be received before Oct. 14.

OUR COZY CORNER.

Up to the time of sending this “copy” to La Plume, (Aug. 13,) we have received no answers to the August puzzles; consequently we cannot award the prize offered. The magazine may have been late in coming from the press, and, as our number did not come to hand, we fear that Uncle Sam—who is partial to good things—may have gobbled up the copy sent to us. [I guess not. The publisher was a little late and did n't deliver a copy to my P. M's. until after that date, but he says that it shall not happen so again. *Uncle Samuel.*] In the mean-



time, we have to thank the puzzlers whose articles appear in this number as well as those whose "garnerings" are reserved for future issues. Ruthven and Netos have promised us some of their best efforts and what they compose pleases all. To those contemplating sending puzzles, we would say we are partial to those having answers relating to horticulture, agriculture and floriculture, that they may agree with the other contents of the magazine; something instructive as well as amusing.

We want you to become interested in this department and to get your parents and friends interested in the same and report every month. If you cannot compose puzzles, you may be able to solve them; and if you can discover but few solutions, don't let that deter you from sending those in. Even one answer will be gladly received, for it will show you have tried and then you will have courage to send more. We look for a long list of solvers of this month's "garnerings" and hope to have a little chat with you in the October number. F. S. F.

### Advertisements.

Mention Seed-Time and Harvest.

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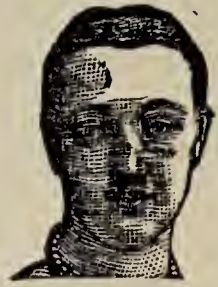
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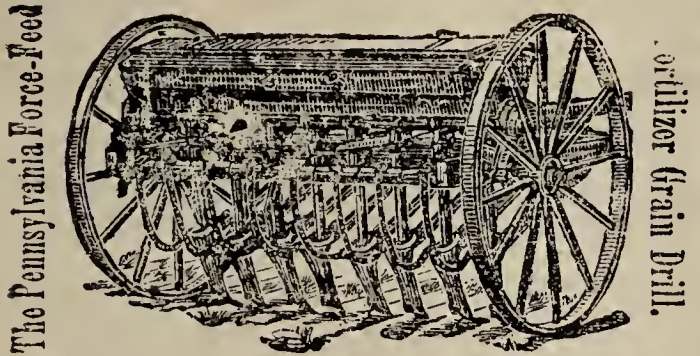
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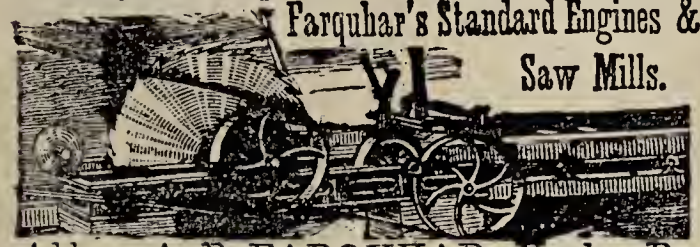
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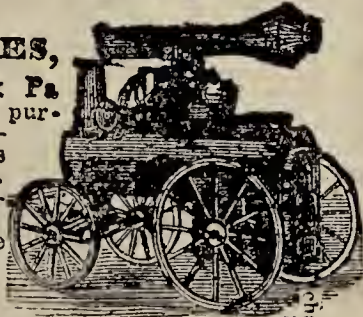


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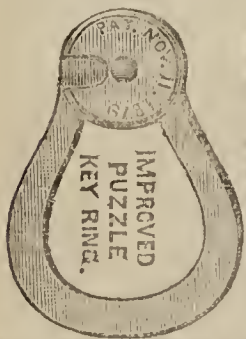
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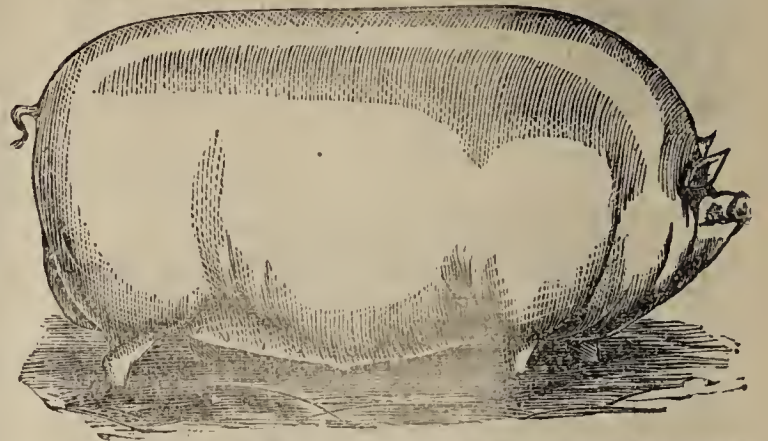
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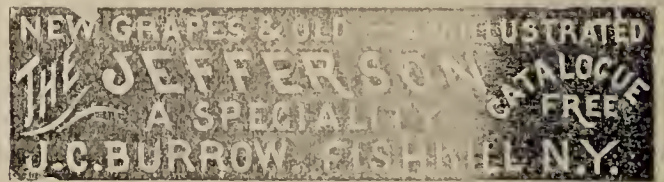
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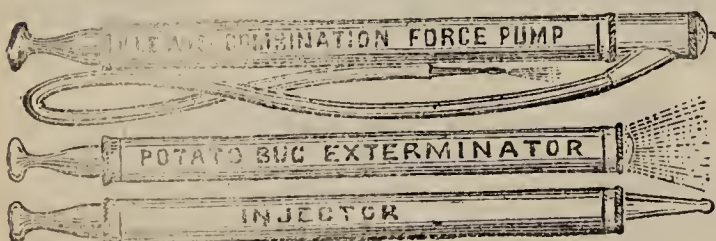
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The above five varieties are all entirely new and extremely hardy as nothing but the hardiest will stand the severe Canadian winters. For productiveness they have no equal, and in quality are ahead of anything in the market. They are not offered by any other seedsman in the United States. Price of the above five varieties is \$1.00 per lb., postpaid; per peck \$6.00; per bushel \$20.00.

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**Mediterranean Hybrid Amber.**—New, red; price same as Martin's Amber.





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| Imperial Smooth Mediterranean, ..... | 4.—     | 7.—          | 75     |
| Michigan Amber, .....                | 4.—     | 7.—          | 75     |
| Silver Chaff, .....                  | 3.—     | 5.—          | 75     |
| Fultz, .....                         | 1.50    | 3.—          | 75     |
| *Clawson, .....                      | 1.50    | 3.—          | 75     |
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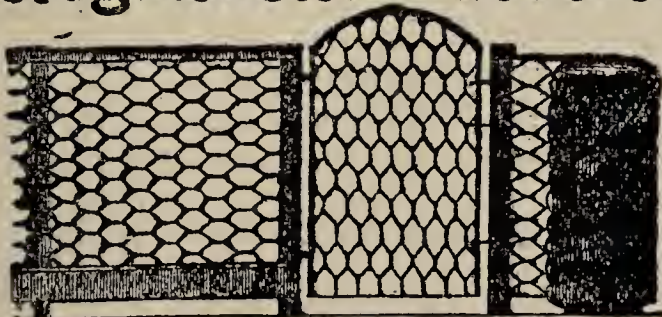
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Is the only general purpose Wire Fence in use, being a Strong Net-Work Without Barbs. It will turn dogs, pigs, sheep, and poultry, as well as the most vicious stock, without injury to either fence or stock. It is just the fence for farms, gardens, stock ranges and railroads, and very neat for lawns, parks, school lots and cemeteries. Covered with rust-proof paint (or galvanized) it will last a life-time. It is Superior to Boards or Barbed Wire in every respect. We ask for it a fair trial, knowing it will wear itself into favor. The Sedgwick Gates, made of wrought-iron pipe and steel wire, defy all competition in neatness, strength and durability. We also make the best and cheapest All Iron Automatic or Self-Opening Gate, also Cheapest and Neatest All Iron Fence. Best Wire Stretcher and Post Auger. Also manufacture Russell's excellent Wind Engines for pumping water, or geared engines for grinding and other light work. For prices and particulars ask hardware dealers, or address, mentioning paper, SEDGWICK BROS. M<sup>rs</sup>. Richmond, Ind.

### \$1,000 A YEAR

can be made at home by any active man or woman, boy or girl. You will not be obliged to leave your own town, or be away from home over night. Any one can conduct the business. It requires no capital.

We will start you with an Outfit worth

### \$4.00 FREE.

If you are employed during the day, you can make from \$1 to \$3 during an evening. Some of our agents report a profit of \$25 in a single day. Write at once for full particulars to

M. J. STODDART & CO.,  
10 Barclay St., N. Y.



5,000,000

JAMES VICK STRAWBERRY plants for sale. It is pronounced KING of the strawberries. The Rural New Yorker counts 283 blossoms on one plant.

We are the Introdurers and have the big supply. Potted and layer plants now ready. Specialties; JAMES VICK Strawberry, SHAFER'S COLOSSAL, SOUHEGAN and TYLER Raspberry plants.

All kinds of plants, vines and trees for sale.

Send for Green's Fruit Grower, Hints on Fruit Culture and Catalogue. All free.

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Box 562, Rochester, N. Y.



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-AT-

HONEST PRICES.

I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I re-fill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

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**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if packets only are taken.

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

| Beans.                 | 2-oz Pkt. | Lb. | Peck. |
|------------------------|-----------|-----|-------|
| Lemon Pod Wax          | 15        | 50  | 4.00  |
| New Prolific Tree Bean | 15        | 50  | 4.00  |
| Crystal White Wax      | 10        | 40  | 2.50  |
| Early Feejee           | 10        | 30  | 1.60  |
| Early Black Wax        | 10        | 30  | 2.00  |
| Jones's Ivory Pod Wax  | 10        | 40  | 2.00  |
| Ferry's Golden Wax     | 10        | 40  | 2.00  |
| Large White Marrowfat  | 10        | 25  | 1.60  |

| Pole Beans.           |    |    |      |
|-----------------------|----|----|------|
| Concord               | 10 | 30 | 2.00 |
| Large Lima            | 10 | 30 | 2.50 |
| German Wax            | 10 | 30 | 2.00 |
| Dreer's Improved Lima | 10 | 30 | 3.00 |

| Corn.                       |    |    |      |
|-----------------------------|----|----|------|
| Red River, New              | 10 | 30 | 1.60 |
| Early Marblehead            | 10 | 30 | 1.60 |
| Amber Cream, New            | 10 | 30 | 1.60 |
| Early Minnesota             | 10 | 30 | 1.60 |
| Crosby's Extra Early        | 10 | 30 | 1.60 |
| Black Mexican               | 10 | 30 | 1.60 |
| Stowell's Evergreen         | 10 | 30 | 1.60 |
| New Egyptian                | 10 | 30 | 1.60 |
| Red and White Rice Pop-Corn | 10 | 40 | —    |
| Wauashakum Field            | 10 | 30 | 1.00 |
| Longfellow's Field          | 10 | 30 | 1.00 |

| Peas.                     |    |    |      |
|---------------------------|----|----|------|
| American Racer            | 20 | 90 | 6.00 |
| American Wonder           | 15 | 50 | 4.00 |
| Extra Early Dan. O'Rourke | 10 | 30 | 1.60 |
| Philadelphia Extra Early  | 10 | 30 | 1.60 |
| Blue Imperial             | 10 | 30 | 1.60 |
| McLean's Little Gem       | 10 | 30 | 1.60 |
| Champion of England       | 10 | 30 | 1.60 |
| Black-Eyed Marrowfat      | 10 | 20 | 1.00 |

| Asparagus.                    | Pkt. | Oz. | Lb.  |
|-------------------------------|------|-----|------|
| Conover's Colossal            | 05   | 10  | 0.75 |
| Early Purple Giant Argenteuil | 05   | 20  | 1.50 |

| Brussels Sprouts.   |    |    |   |
|---------------------|----|----|---|
| New Dwarf           | 05 | 25 | — |
| Carter's Perfection | 05 | 25 | — |

| Beets.                |    |    |     |
|-----------------------|----|----|-----|
| New Eclipse, true     | 10 | 25 | —   |
| Early Egyptian        | 05 | 10 | .75 |
| Bassano               | 05 | 10 | .75 |
| Dewing's Red Turnip   | 05 | 10 | .75 |
| Yellow Turnip         | 05 | 10 | .75 |
| Long Smooth Blood     | 05 | 10 | .75 |
| Above Varieties Mixed | 05 | 10 | .75 |

| Mangel Wurzel Beets. | Pkt. | Oz. | Lb. |
|----------------------|------|-----|-----|
| Yellow Globe         | 05   | 10  | .75 |
| Norbitan's Giant     | 05   | 10  | .75 |
| Webb's New Kinver    | 05   | 10  | .75 |
| Imperial Sugar       | 05   | 10  | .65 |

| Broccoli.         |    |    |   |
|-------------------|----|----|---|
| Early Purple Cape | 10 | 60 | — |
| White Cape        | 10 | 60 | — |
| Walcheran         | 10 | 60 | — |

| Cauliflower.           |    |      |   |
|------------------------|----|------|---|
| Lackawanna (New)       | 20 | 2.00 | — |
| Early Snowball, New    | 20 | 2.00 | — |
| Earliest Dwarf Erfurt  | 20 | 2.00 | — |
| Early London           | 15 | .75  | — |
| Nonpareil              | 20 | 1.25 | — |
| Lenormand's Short Stem | 20 | 1.25 | — |
| Above Varieties Mixed  | 20 | 1.25 | — |

**Cabbage.** American Cabbage Seeds are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply thousands of dollars worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle.

|                           |    |    |      |
|---------------------------|----|----|------|
| Hartwell Early Marrow     | 15 | 50 | 8.00 |
| Very Early Favorite       | 15 | 50 | 8.00 |
| Early York                | 05 | 15 | 2.00 |
| Berkshire Beauty, New     | —  | —  | —    |
| Early Bleichfield         | 10 | 25 | 4.00 |
| True Jersey Wakefield     | 10 | 25 | 4.00 |
| Henderson's Early Summer  | 10 | 25 | 4.00 |
| Newark Early Flat Dutch   | 10 | 25 | 4.00 |
| Large Early Oxheart       | 05 | 20 | 3.00 |
| Early Winningstadt        | 05 | 20 | 3.00 |
| Fottler's Early Drumhead  | 05 | 25 | 4.00 |
| Premium Flat Dutch        | 05 | 25 | 4.00 |
| Late American Drumhead    | 05 | 25 | 4.00 |
| Marblehead Mammoth        | 05 | 25 | 4.00 |
| Perfection Drumhead Savoy | 05 | 25 | 4.00 |
| Red Drumhead              | 05 | 25 | 4.00 |
| Red Dutch                 | 05 | 25 | 4.00 |
| Early Dark Red Erfurt     | 10 | 35 | 5.00 |
| Above Varieties Mixed     | 10 | 30 | 4.50 |

| Carrot.               |    |    |      |
|-----------------------|----|----|------|
| Early Short Horn      | 05 | 10 | 1.25 |
| Improved Long Orange  | 05 | 10 | 1.50 |
| Danvers Orange        | 05 | 10 | 1.25 |
| White Belgian         | 05 | 10 | 1.00 |
| Above Varieties Mixed | 05 | 10 | 1.00 |

| Celery.                 |    |    |      |
|-------------------------|----|----|------|
| Golden Hartwell, New    | 15 | —  | —    |
| La Plume Chestnut, New  | 10 | 25 | 3.00 |
| Crawford's Half Dwarf   | 05 | 25 | 3.00 |
| Carter's Dwarf Crimson  | 10 | 25 | 3.00 |
| New Golden Dwarf        | 10 | 25 | 3.00 |
| Dwarf White Solid       | 05 | 25 | 3.00 |
| Boston Market           | 10 | 50 | —    |
| Sandringham             | 05 | 25 | 3.00 |
| Giant White Solid       | 05 | 25 | 3.00 |
| Celeriac, Turnip Rooted | 05 | 25 | —    |
| Above Varieties Mixed   | 10 | 30 | —    |

| Chicory.     |    |    |      |
|--------------|----|----|------|
| Large Rooted | 05 | 10 | 1.25 |

| Cress.                 |    |    |      |
|------------------------|----|----|------|
| Curled, or Peppergrass | 05 | 10 | 1.25 |
| Water Cress            | 10 | 60 | —    |

| Cucumber.                  | Pkt. | Oz. | Lb.  |
|----------------------------|------|-----|------|
| Tailby's Hybrid, New       | 05   | 10  | 1.50 |
| Early Cluster              | 05   | 10  | 1.25 |
| Early Russian              | 05   | 10  | 1.25 |
| Peerless Early White Spine | 05   | 10  | 1.25 |
| Green Prolific             | 05   | 10  | 1.25 |
| Long Green                 | 05   | 10  | 1.25 |
| Above Varieties Mixed      | 05   | 10  | —    |

| Egg Plant.              |    |    |   |
|-------------------------|----|----|---|
| Long Purple             | 10 | 50 | — |
| Improved N. Y. Purple   | 10 | 60 | — |
| Very Early Dwarf Purple | 10 | 50 | — |
| Striped Gaudalupe       | 10 | 60 | — |
| Long White China        | 10 | 60 | — |
| Above Varieties Mixed   | 10 | 60 | — |



| <b>Endive.</b>                  | <i>Pkt.</i> | <i>Oz.</i> | <i>Lb.</i> | <b>Pumpkin.</b>                      | <i>Pkt.</i> | <i>Oz.</i>     | <i>Lb.</i>  |            |     |
|---------------------------------|-------------|------------|------------|--------------------------------------|-------------|----------------|-------------|------------|-----|
| Green Curled .....              | 05          | 20         | 2.00       | Large Cheese.....                    | 05          | 10             | .85         |            |     |
| <b>Gourds.</b>                  |             |            |            | Sugar. (Fine for pies,).....         | 05          | 20             |             |            |     |
| New Nest Egg .....              | 15          | —          | —          | Connecticut Field .....              | 05          | 05             | .45         |            |     |
| <b>Kohl Rabi.</b>               |             |            |            | <b>Radishes.</b>                     |             |                |             |            |     |
| Large Purple.....               | 10          | 35         | —          | Early Scarlet Turnip .....           | 05          | 10             | 1.00        |            |     |
| Early White Vienna .....        | 10          | 35         | —          | Early White Turnip .....             | 05          | 10             | 1.00        |            |     |
| Above Varieties Mixed.....      | 10          | 35         | —          | Long Scarlet Short-Top.....          | 05          | 10             | 1.00        |            |     |
| <b>Lettuce.</b>                 |             |            |            | Early Scarlet Olive .....            | 05          | 10             | 1.00        |            |     |
| Black Seeded Satisfaction ....  | 05          | 20         | 2.00       | French Breakfast.....                | 05          | 10             | 1.00        |            |     |
| Royal Summer Cabbage .....      | 05          | 20         | 2.00       | Grey Summer Turnip.....              | 05          | 10             | 1.50        |            |     |
| Black Seeded Simpson, New,..    | 05          | 30         | 4.00       | Golden Yellow Summer (New)           | 05          | 10             | 1.50        |            |     |
| Hanson .....                    | 05          | 20         | 2.00       | Summer Varieties Mixed....           | 05          | 10             | 1.25        |            |     |
| Victoria .....                  | 05          | 20         | 2.00       | China Rose Winter .....              | 05          | 10             | 1.00        |            |     |
| Early Curled Simpson .....      | 05          | 20         | 2.00       | Black Spanish Winter .....           | 05          | 10             | 1.00        |            |     |
| True Boston Market .....        | 05          | 20         | 2.00       | California Mammoth White..           | 05          | 15             | 2.00        |            |     |
| White Seeded Tennisball.....    | 05          | 20         | 2.00       | Winter varieties Mixed .....         | 05          | 10             | 1.50        |            |     |
| Black Seeded Tennisball.....    | 05          | 20         | 2.00       | <b>Rhubarb.</b>                      |             |                |             |            |     |
| Drumhead, or Maha .....         | 05          | 20         | 2.00       | Linnaeus .....                       | 05          | 10             | 1.60        |            |     |
| Above Varieties Mixed .....     | 05          | 20         | 2.00       | <b>Salsify, or Vegetable Oyster.</b> |             |                |             |            |     |
| <b>Leek.</b>                    |             |            |            | White French .....                   | 05          | 15             | 1.50        |            |     |
| Large Scotch Flag .....         | 05          | 30         | 4.00       | <b>Spinach.</b>                      |             |                |             |            |     |
| <b>Musk Melon.</b>              |             |            |            | Round Leaved .....                   | 05          | 05             | 0.50        |            |     |
| Nutmeg.....                     | 05          | 10         | 1.25       | Monstrous Viroflay .....             | 05          | 10             | 1.00        |            |     |
| Skillman's Netted. ....         | 05          | 10         | 1.25       | <b>Squash.</b>                       |             |                |             |            |     |
| Improved Yellow Cantaloupe      | 05          | 10         | 1.25       | Low's Essex Hybrid, New,....         | 10          | 15             | 2.50        |            |     |
| Green Citron.....               | 05          | 10         | 1.25       | Early White Bush .....               | 05          | 10             | 1.00        |            |     |
| Pine Apple .....                | 05          | 10         | 1.25       | Summer Crookneck .....               | 05          | 10             | 1.00        |            |     |
| Jenny Lind.....                 | 05          | 10         | 1.25       | Hubbard.....                         | 05          | 10             | 1.25        |            |     |
| Surprise, New, .....            | 05          | 15         | 2.00       | Marblehead .....                     | 05          | 10             | 1.25        |            |     |
| Bay View, New,.....             | 05          | 15         | 2.00       | Butman, .....                        | 05          | 10             | 1.25        |            |     |
| Montreal Green Nutmeg, New,     | 05          | 20         | 3.00       | Mammoth .....                        | 10          | 30             |             |            |     |
| Netted Gem .....                | 05          | 20         | 3.00       | <b>Tobacco.</b>                      |             |                |             |            |     |
| Hackensack .....                | 05          | 10         | 2.00       | Connecticut Seed Leaf.....           | 10          | 20             |             |            |     |
| Christiana Orange .....         | 05          | 10         | 2.00       | Spanish Long Leaf.....               | 10          | 30             |             |            |     |
| Above Varieties Mixed.....      | 05          | 10         | 1.50       | <b>Tomato.</b>                       | <i>Pkt.</i> | <i>Hf.-Oz.</i> | <i>Oz.</i>  |            |     |
| <b>Water Melon.</b>             |             |            |            | Livingston's Favorite, New,          | 20          |                |             |            |     |
| The "Boss," New, ....           | 05          | 20         | 3.00       | President Garfield, New.....         | 10          |                |             |            |     |
| Japan Sculptured-Seeded ....    | 05          | 20         | 3.00       | Essex Hybrid, New.....               | 10          | .30            | .60         |            |     |
| Cuban Queen, New.....           | 05          | 20         | 3.00       | Ford's Alpha, New, .....             | 10          | .30            | .60         |            |     |
| Phinney's Early.....            | 05          | 10         | 1.25       | Acme, .....                          | 05          | .20            | .40         |            |     |
| Striped Gipsy.....              | 05          | 10         | 1.25       | Mayflower, New, .....                | 10          | .30            | .60         |            |     |
| Ice Cream .....                 | 05          | 10         | 1.25       | Red Currant .....                    | 05          | .25            | .50         |            |     |
| Mountain Sweet .....            | 05          | 10         | 1.25       | Paragon .....                        | 05          | .25            | .50         |            |     |
| Ferry's Peerless .....          | 05          | 10         | 1.25       | Canada Victor .....                  | 05          | .15            | .30         |            |     |
| Citron. (for preserving.) ..... | 05          | 10         | 1.25       | Conqueror .....                      | 05          | .15            | .30         |            |     |
| Above Varieties Mixed.....      | 05          | 10         | 1.25       | Livingston's Perfection, ....        | 05          | .30            | .60         |            |     |
| <b>Mustard.</b>                 |             |            |            | Trophy .....                         | 05          | .15            | .30         |            |     |
| White French.....               | 05          | 05         | 60         | Island Beauty.....                   | 05          | .30            | .60         |            |     |
| Black American .....            | 05          | 05         | 60         | Green Gage.. ..                      | 05          | .15            | .30         |            |     |
| <b>Onion.</b>                   |             |            |            | Golden Rural, New,...                | 05          | .20            | .40         |            |     |
| Southport Yellow Globe, New     | 05          | 20         | 2.00       | Saint Paul, (New) .....              | 10          | .30            | .60         |            |     |
| Southport Red Globe, fine,....  | 05          | 20         | 2.00       | Above Varieties Mixed.....           | 05          | 20             | 40          |            |     |
| Early Red Globe.....            | 05          | 20         | 2.00       | <b>Turnip.</b>                       | <i>Pkt.</i> | <i>Oz.</i>     | <i>Lb.</i>  |            |     |
| Yellow Danvers.....             | 05          | 15         | 1.60       | New White Egg.....                   | 05          | 10             | 1.00        |            |     |
| Red Wethersfield .....          | 05          | 15         | 1.60       | Early White Dutch.....               | 05          | 10             | .75         |            |     |
| Large Yellow Dutch.....         | 05          | 15         | 1.50       | Purple Top Strap Leaf.....           | 05          | 10             | .75         |            |     |
| White Globe .....               | 05          | 20         | 2.00       | Long White Cow Horn .....            | 05          | 10             | .75         |            |     |
| White Portugal.....             | 05          | 20         | 2.00       | Large White Globe.....               | 05          | 10             | .75         |            |     |
| New Queen .....                 | 05          | 20         | 2.00       | Yellow Aberdeen .....                | 05          | 10             | .75         |            |     |
| White Italian Tripoli.....      | 05          | 20         | 2.00       | Yellow Globe .....                   | 05          | 10             | .75         |            |     |
| Giant Rocca.....                | 05          | 20         | 2.00       | Golden Ball.....                     | 05          | 10             | .75         |            |     |
| <b>Parsnip.</b>                 |             |            |            | Above Varieties Mixed.....           | 05          | 10             | .75         |            |     |
| Smooth Hollow Crowned ....      | 05          | 10         | .75        | <b>Rutabaga, or Swede Turnip.</b>    |             |                |             |            |     |
| Early Round.....                | 05          | 10         | .75        | White French, or Sw't German         | 05          | 10             | 80          |            |     |
| New Maltese .....               | 05          | 10         | 1.00       | Skirving's Purple Top Yellow         | 05          | 10             | 80          |            |     |
| <b>Parsley.</b>                 |             |            |            | Brill's American Yellow .....        | 05          | 10             | 80          |            |     |
| Extra Fine Curled .....         | 05          | 15         | 2.00       | Shanrock Swede, Yellow.....          | 05          | 10             | 80          |            |     |
| <b>Pepper.</b>                  |             |            |            | Above Varieties Mixed.....           | 05          | 10             | 80          |            |     |
| New Golden Dawn .....           | 15          |            |            | <b>Herb Seeds.</b>                   | <i>Pkt.</i> | <i>Oz.</i>     | <i>Pkt.</i> | <i>Oz.</i> |     |
| Sweet Bell or Bull Nose.....    | 10          | 25         | 4.00       | Coriander .....                      | 05          | .20            | Dill.....   | 05         | .25 |
| Large Sweet Mountain.....       | 10          | 25         | 4.00       | Horehound.....                       | 10          | 50             | Sage .....  | 05         | 20  |
| Red Cayenne .....               | 10          | 25         | 4.00       | Summer Savory... ..                  | 10          | 30             | Saffron.... | 05         | 25  |
| Spanish Monstrous (New) ....    | 10          | 40         |            | Sweet Marjoram.. ..                  | 10          | 40             | Lavender .  | 10         | 30  |
|                                 |             |            |            | Caraway .....                        | 05          | 15             | Sweet Basil | 10         | 40  |
|                                 |             |            |            | Sweet Fennel.....                    | 05          | 20             | Thyme....   | 10         | 50  |

**Isaac F. Tillinghast,**  
**La Plume, Lack'a Co., Pa.**

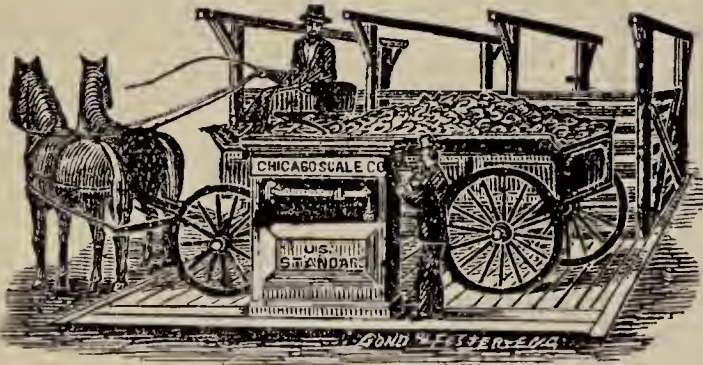


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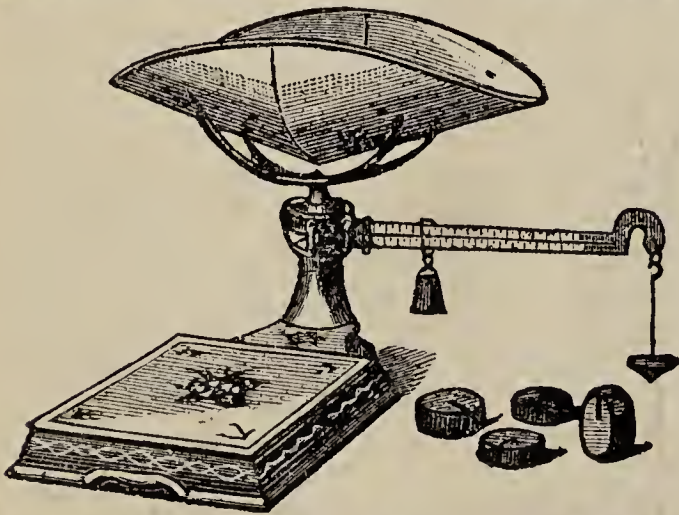
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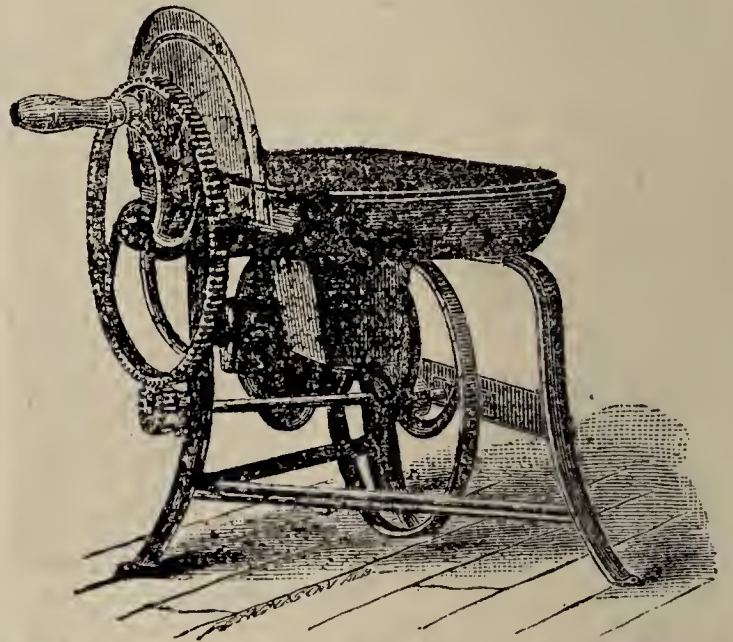
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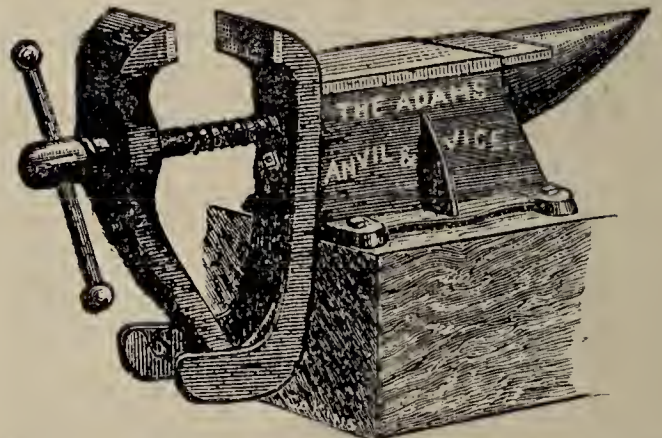
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In view of the fact that correct spelling and pronunciation and a knowledge of the significance of words in frequent use is the greatest educational accomplishment, the importance of a National Standard Dictionary in every household can scarcely be over-estimated. We cannot think well, talk fluently or write intelligibly without having acquired such a dictionary knowledge of the language to be employed.

The place for a child to begin this dictionary branch of his education is at home. If this fact were duly appreciated, the average intelligence of the nation would be doubled in five years by a revolution of our present deplorable process of memorizing abstract and meaningless words.

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it up" by the aid of a reliable dictionary which should be ever at hand. By thus taking one word at a time while it is associated with the object or the thought which it is designed to convey, it may be really learned as well as memorized, almost without effort; while to undertake to memorize a dozen or fifty such words in a lesson at school would result in the accumulation of useless rubbish rather than available knowledge. Not only does the accumulation of this useless rubbish destroy the child's ambition to learn and his thirst for knowledge, but it often shatters his constitution.

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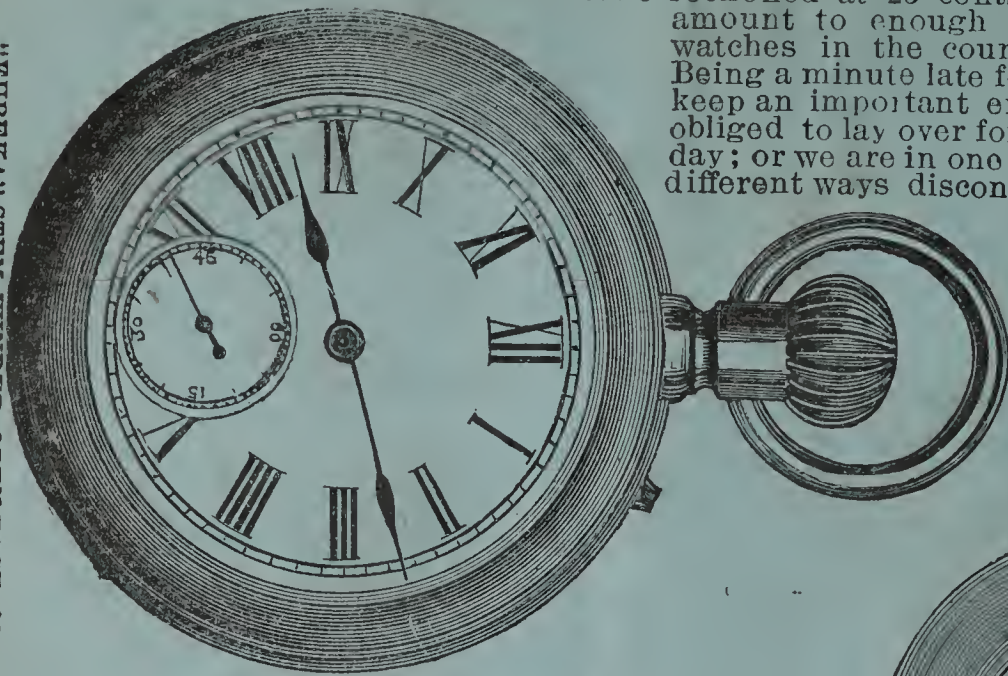


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There is scarcely an hour of the day when one or another member of a household,

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1883.



Seed-Time and Harvest,

OCTOBER.



An Illustrated Monthly  
MAGAZINE,  
Devoted to Rural Affairs.

PUBLISHED BY  
Isaac F. Tillinghast, La Plume, Pa.

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# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

— FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT. —

SUBSCRIPTIONS 50 CENTS PER YEAR.

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ADVERTISING SPACE \$3.60 PER INCH.

VOL. 4.

OCTOBER, 1883.

NO. X.



THE LEGAL TENDER STRAWBERRY.



## SONNET TO AUTUMN.

O MOTHER Ceres! now I bring to thee  
Bright grains and ripened fruits, and from the  
tree

That skirts the meadow-brook, brown nuts and  
leaves

Of wondrous shadings, yellow as thy sheaves;  
Oh! wilt accept such humble gift from me,  
Who hast thy granaries full; since e'en for thee  
I cannot longer glean, nor, from the field

That reapers once have stript of all its yield,  
Seek, for my sheaf, stray grains and broken straws  
And weedy twinings overfilled with flaws?

For now the circling swallows glint the sky  
No more, calling their mates with mournful cry  
Even Melissa from the field has gone,

And I must offer what I have or none.

—Grace Adele Pierce, in *Arthur's Home Magazine*.

## THE SQUIRE'S FUN.

Squire Doolittle was a farmer, fat and jolly, who liked fun, but always preferred it at some one else's expense.

If he could play a trick upon one of his sons, he enjoyed it hugely. As a consequence, the boys did not reverence him very much, and were always trying some practical joke upon their father. Sometimes they succeeded, but not often.

"I'm too old a fish to be caught by the pin-hooks of boys," he would say, when some plan of theirs had miscarried and the joke was turned upon themselves, much to his delight and their chagrin. "You've heard of weasels, haven't you? Yes? Well, weasels, especially old weasels, never sleep."

"We must get a laugh against him in some way," said Tom. "He's too provoking! I'd give a dollar to trick him in such a way that he wouldn't like to hear about it."

"So would I," said John.

"And I'd make it two," said Robert. "But we're hardly sharp enough. That's the trouble."

It happened that the Squire was in the haymow in the barn when this conversation took place, and the boys were sitting on some boxes on the barn floor.

He chuckled as he listened, and a moment later called out from his lofty perch: "I'll tell you what I'll do, boys. When you get a good joke on me, I'll buy each one of you a hat."

The boys looked foolish. But finally,

because they had nothing else to say, they accepted the challenge, and in a half-hearted sort of a way set their wits to work to earn the hats.

In the squire's flock of sheep was an old ram called David. The animal had a chronic spite against the whole human family, and never lost an opportunity of exhibiting it to any individual of the family that crossed his path. If a stranger entered the yard or pasture where David was, the poor man was fortunate if he was not knocked down as suddenly as if he had been struck by lightning. The ram always attacked from the rear. He would get behind the object of his attack, curb his neck, shut his eyes, and charge! As may be imagined, the great horns of the animal, backed up by the momentum gathered by his charge, gave anything but a pleasant sensation when they came in contact with the legs of his unsuspecting victim. Generally a board was strapped to his horns, over his woolly face, to obstruct his range of vision and serve as a warning to strangers of his warlike propensities. But he often contrived to tear it from his head—and then alas for his unsuspecting victim.

The boys enjoyed many an hour of fun with David. The sheep-pasture came up to the barn-yard on one side, and a creek ran along by both. Where the pasture came to the creek there was a very high bank, and this bank was steep. The Doolittle boys used to get on a narrow rock that was just under the edge of the bank. Here, when they stood up, all of their bodies above the waist could be seen above the level of the pasture. Placing themselves in this position they would attract the attention of old David by calling and shaking their hats at him. He was always ready for battle. With lowered head, curbed neck and a snort of anger, he would rush at them with his eyes closed. Taking advantage of this peculiarity, the boys would drop down behind the bank, and David would go over them and into the water with a plunge that would have done credit to a Newfoundland dog. Then he could get back to the shore, looking wrathful and sleepish; but he could not be induced to renew the attack again that time.



His memory, however, was poor, or his pugnacity was too strong for his discretion, for in an hour, if the boys came back and showed themselves above the bank, he was ready for another charge. Perhaps the foolish animal thought that some time he would be too quick for them.

The squire had often watched this sport, and laughed at David's recklessness and at his appearance as he plunged into the water and came forth with wet wool and disgusted and wrathful aspect.

One day the squire was in the barn-yard salting the cows. He had a half-bushel measure in his hand, and as he looked over the fence into the sheep-pasture and saw David watching him, he held up the measure and shook it at the old fellow.

David gave a snort of defiance, and began to curb his neck and shake his head, as if challenging the squire to combat.

"I wonder if I couldn't trick the old fellow in the same way that the boys fool him?" thought the deacon. He looked about the yard cautiously. His sons were not in sight, and he concluded he would have a laugh at David's expense. Crawling through the fence, he reached the rock on which the boys stood in their encounters with David. The ram had not seen him. When the squire raised himself cautiously and looked over the bank, David was watching the barn-yard, and evidently wondering what had become of the man who had just challenged him.

"Hi, David!" cried the squire, holding the half-bushel measure out before him as a target for the sheep to aim at. "Hi, David!"

David "hi-ed" at once. He gave a grand flourish, as if to say: "Look out there!" then charged.

Unfortunately for the 'Squire, he was so excited over the fun that he forgot himself completely, and only thought about the half-bushel measure. Instead of dropping out of the sheep's way, he swung the measure on one side, in his excitement forgetting that David always shut his eyes when he charged, and aimed for the object before him when he closed them. The consequence was that the ram did not follow the measure, but bolting straight for the place where

he last saw it struck the poor 'Squire square in the stomach and he and David went over the bank and into the creek as if shot out of a cannon.

"Wall, I snum!" sputtered the 'Squire, as he made his way to the bank. "I forgot all about dodging. I do b'lieve the old reprobate's broke my stomach in, by the way it feels. You old rascal!" he screamed to David, whose air was one of victory, as he stood on the pasture-side of the fence, making defiant motions with his head at the deacon, who had clambered out of the water on the barnyard side; "I'd like to break your old neck! I shan't get over this for a month, if ever I do. I wouldn't have been so bruised for five dollars. I'm glad the boys didn't see me."

He made his way up the bank and towards the barn, under cover of the fence. He didn't want any one at the house to see him in his wet clothes. As he opened the barn-door a broadside of laughter saluted his ears, from the haymow in the end of the barn towards the creek. He knew then that the boys' hour of triumph had come. They had seen his discomfiture.

"I say, father!" irreverently called out Tom, in a voice choked with laughter, "You didn't scrooch quick enough. Next time you'll know better how to do it."

"What became of the half-bushel?" asked John, and Rob screamed: "Hi, David!" in such a way that notwithstanding his pain the squire was half-inclined to laugh himself.

"I—I acknowledge that David was too much for me that time," said the squire, looking very red and foolish. "Laugh away, boys, if it does you any good.

"What's the price of hats?" asked John.

"Well, but the joke wasn't yours," said the Squire. "But I'll tell you what I'll do. If you won't say anything about this foolish affair, I'll buy the hats, and give you a day's fishing any time you wish to take it."

"We agree! we agree!" cried the boys.

But the story leaked out in some way, and the Squire had to endure a good deal of sly laughter from his fun-loving neighbors. But he never quite forgave old David, and although he did not say so, he had a feeling of unqualified satisfaction when he



heard one day that the old sheep's neck had been broken in a fight.—*Eben E. Rexford, in Youth's Companion.*

### The Honest Truth.

"GEORGE, dear. where have you been since school was dismissed?"

"Hain't been nowhere, ma."

"Did you come straight home from school, George?"

"Yes, ma'am."

"But school is dismissed at 3 o'clock and it is now half-past six. How does that come?"

"Got kep' in."

"For what?"

"Missed m' jography less'n."

"But your teacher was here only an hour ago and said you had not been at school all day."

"Got kep' in yestiddy, then."

"George, why were you not at school to-day?"

"Forgot. Thought all the time it wa Saturday."

"Don't stand on the side of your foot in that manner. Come here to me. George, you have been swimming."

"No, me."

"Yes you have. George. Haven't you?"

"No a p."

"Tell your mother, George."

"No."

"Then what makes your hair so wet, my son?"

"Sweat. Run so fast comin' from school."

"But your shirt is wrong side out."

"Put it on that way when I got up this mornin', for luck. Always win when you play for keeps if your shirt's on hind-side out."

"And you haven't the right sleeve of your shirt on your arm at all, George, and there is a hard knot tied in it. How did that come there?"

"Bill Fairfax tied it in when I wasn't lookin'."

But what were you doing with your shirt off?"

"Didn't have it off. He jes took'n tied that knot in there when it was on me."

"George."

"That's honest truth, he did."

About that time his father came along with a skate strap, and we draw a veil over the dreadful scene.

### Onion and Cabbage Growing.

Thinking that our readers will be interested and perhaps instructed by the following description of a visit by the Editor of the *American Rural Home* to the farm of one of the best Cabbage and Onion growers in New York state we transfer it to our columns:

The garden farm of Mr. Robert Birch is very pleasantly located on an elevation commanding a fine view of Fairport and of a beautiful, varied landscape stretching off westward to the city of Rochester. The soil ranges from a sandy-loam which under unwise culture would become light and unproductive, down to a strong loam. The onion plantation contains 5½ acres, on a portion of which he has grown onions for four successive years. On the remainder this is the first year with onions, cabbage having been grown on the ground for a number of years. The reader, unfamiliar with onion growing, will be surprised to be informed that the old onion ground promises a yield of from 50 to 100 per cent. greater, per acre, than the new, yet such is the fact. Onions are not improved by rotation of crops. These onions are just in the full vigor of growth, and it is too early to predict the yield as the bulbs are apparently not more than half grown. The variety is Danvers Yellow. On the old onion part the onions stand pretty thick and even in the rows, which are pretty clean of weeds. On the new part there are quite a good many vacancies in the rows, caused, as Mr. Birch believes, by Wire-worms, and there is quite a growth of Purslane between the rows. Mr. B. explained that the pressure of other work, and the numerous wet days when killing weeds is impossible prevented his cleaning those rows properly. When the Rural Editor looked around upon the "other work" he felt the force of the apology. His onions, last year, averaged 400 bushels per acre. If nothing



occurs to prevent their attaining full growth we think the old patch will reach that, this year.

In September, when Mr. B. has harvested his onions and cabbages, he seeds his ground thickly with rye. As soon as the ground will do to work in spring he plows under the rye (which, although short is very thick), harrows it down well and then spreads on his fertilizers. He takes Peruvian guano, costing \$66 per ton; ground bone costing \$33 per ton, and superphosphate, costing \$32 per ton and mixes them carefully together on barn floor. Then, with a broadcast plaster-sower sows the mixture upon the onion ground, at the rate of a ton, or more, per acre. He then harrows the ground very fine, and drills in the seed at the rate of four pounds per acre. He works out his onions with the Gem Cultivator, which he considers a very good one.

#### FIFTEEN ACRES OF CABBAGES.

As already intimated, Mr. Birch is an extensive grower of cabbages. He has in all, this year, early, medium, and late medium, 15 acres; does not raise late cabbage because he thinks they do not pay as well. As before said, he sows his cabbage ground in September, after his latest cabbage are cut, to rye. He evidently believes in the principle, recently contended for by the Rural Editor, that when decaying vegetation is fermenting in the soil, if we would preserve the precious ammonia generated we must have living, active roots growing to absorb it and assimilate it in organic forms. During the winter he makes from his own animals, and hauls from Fairport what manure he can, which he spreads upon the cabbage land. As soon as it will answer in spring the ground is plowed and rye and manure carefully turned under and harrowed down.

In January he sows his cabbage seed in a Green-house, heated by a flue, and when of suitable size transplants them into boxes. He sows for early cabbage the Jersey Wakefield, for medium Henderson's Early Summer, and for late medium Fottler's Improved Brunswick.

About the middle of April, after sowing from one ton to one and  $\frac{1}{2}$  tons to the acre

of the same mixed fertilizers, mentioned as being sowed upon the onion ground, and well dragging them in, he commences transplanting his cabbage to the open ground. He first transplants his Jersey Wakefield on his warmest ground, which has a southeastern exposure; and then in succession the later varieties. The rows are three feet apart, and the Wakefield are about .8 inches apart in the row, the Early Summer two feet, and the Improved Brunswick three feet, which admits cultivation both ways for the latter.

He begins to cut the Wakefields for market about the middle of June and they bring from \$500 to \$600 per acre. He began to market the Early Summer this year about the 8th of July. They have quite a large, flat head, but do not amount to as large a sum per acre as the Wakefields, because he does not sell as many heads per acre. Had, that day, shipped to Buffalo a car load for \$6 per hundred, delivered in the car at Fairport station. He cut the first of his Fottler's Improved Brunswick the 14th of August. We looked over the plantation; they are a splendid cabbage, large, round, flat, solid; there were heads that would weigh from 12 to 15 pounds each. He does not calculate upon the later varieties bringing in much over \$200 per acre. He has 27 acres in this home farm, including orchard, garden and yards occupied by the buildings, and they altogether yield an income of \$200 per acre, or a gross income of \$5,400. He leased the place for five years at \$600 per annum, but a year ago he purchased it for \$6,500, or a little more than \$240 per acre. The interest on the cost is \$390, not quite two-thirds the rent he paid.

He employs three men steadily through the season, and enough occasionally, by the day to make another one steadily. Among the Jersey Wakefield cabbage he transplants tomatoes, which occupy the ground when the cabbage are removed and makes a good second crop. Has a variety called "Essex Early Hybrid" which are large, round, smooth, and of the color of the Acme, but not inclined to rot, like that variety.

Please show this magazine to your neighbors.



## AT THE SMITHY.

(PICKENS COUNTY, SOUTH CAROLINA, 1874.)

Shoe your horse? Well, yes, sir, I reckon I can.  
Here, Johnny, come brush off the flies like a man.  
Fine scenery? Yes; but, if you were to try  
To plough up that hill-side, you'd understand why  
I'm tired of these mountains; the fields, now, are rare  
And smooth about Charleston—perhaps you've been  
there?

I am old for my trade? I am just sixty-four;  
But some years are long as a lifetime, nay, more;  
Ten lifetimes have passed since—but never mind  
that.

Here, Joe, bring a chair—take the gentleman's hat.  
And, Susie, my blossom, run quickly and bring  
A nice cup of water from grandpa's cold spring.

Yes, grandchildren; orphans, sir; three little ones;  
They are all we have left now, for all our four sons  
Are dead; James and Harry, and brave little Gray,  
Who, worn out with marching, dropped dead by the  
way,

With his drum at his back; a mere boy, sir, the pride  
Of his mother, who never has smiled since he died.

By the cold Rappahannock our eldest son fell—  
They were starving, poor fellows—half naked as well;  
But they charged in their rags, and were mown down  
like grass

Left dying and dead in the frozen morass.  
Have you ever been hungry, sir, day after day?  
You don't know how it takes a man's spirit away.

But they charged in their rags! They rushed with  
a cheer

On the enemy's ranks as they slowly drew near—  
The blue-coated Yankees, well clothed and well fed,  
Who, wondering, looked at our poor famished dead,  
When, the struggle so hopeless, so weak-handed, o'er,  
Gaunt, shoeless, and ragged, they lay on the shore.

Into the Wilderness, Harry and James—  
They never came out. We saw their two names  
Reported as "missing;" and Harry's young wife  
Just pined away—pined away—out of this life,  
Then we rode to join Lee, old horse Dobbin and I—  
As his four boys had died, so the father could die!

The thin ranks were swelled by old men with gray  
hair,

And boys under age—those last days of despair  
Had drained from the South every man, and the farms  
And the fields were unploughed save by women's  
weak arms.

How we marched on our rag-covered, frozen old feet!  
How the poor lads paraded, with nothing to eat!

I don't know what makes me run on in this way—  
There, the shoe is quite fast, sir—I bid you good-day.  
A quarter? Yes; thank you. That road to your right—  
Five Forks, did you say? Was I in that fight?  
I was; and this bony hand fired the last gun  
Of our last haggard rally ere victory was won

By Sheridan's men, full of beef and hard-tack,  
With miles of fat wagon-trains safe at their back;  
While the ragged Confederate tightened his belt

To hold in the sickening hunger he felt.  
Then came Appomattox, the contest was done,  
The long struggle over, you Yankees had won!

And is not peace better? you ask. Can I tell?  
My thoughts are away where my four strong boys  
fell.

To argue the question I never was good—  
Carolina went out, and we all understood  
We must go with our State—and I can't make it  
plain

To my mind that my four boys have died all in vain.

Perhaps you are right—you talk like a book—  
I'm old and tired out and so I can't look  
Away back to "principles;" all I can do  
Is plough up that hill-side and set a horse-shoe,  
To feed these poor children; but sometimes I dream  
Of the old days in Charleston—how far off they seem!

Oh! proud was old Charleston, down there by the  
sea—

And bright were those days; but they're over for me  
Forever. Yes—Time; but he never can give  
My boys, who had only their one life to live.  
I don't understand, and its no use to try;  
But the Lord understands, and He'll tell me why.

Some day when, at last, my four boys will come  
To call their old father, and carry him home.—  
There's a horse wants a shoe—yes, they're turning  
this way;

It's Judge Brown, of this district. (Eh, what's that  
you say?

He's colored? Of course; we're used to that here.)  
Let me hold your horse, judge. Run, Joe, bring a  
chair.—C. F. Woolson, in *Appletons' Journal*.

## Harvesting Apples.

The apple harvest begins soon, and for this one principal hint is needed. "Care," should be the maxim throughout. In picking and handling the fruit it should be treated as if it were as liable to damage by rough usage as eggs would be. In putting up for market, remember that neat packages attract the eye of the buyer, while dirty barrels will detract more from the selling price of the fruit than would be the cost of a clean barrel. Use care also in selecting the fruit. Do not put bruised, wormy or gnarly specimens among the first quality. One barrel of imperfect ones among ten barrels of first quality are enough to reduce the whole lot to the grade of seconds in the market-place, and such had better be thrown away. Some even make three qualities—extras, firsts and seconds—and find it pays to do so. The practice of putting a layer of the largest and finest at each end of the barrel is much condemned,



but the market has become so accustomed to it that most buyers would grade a barrel as second quality if they did not find them "topped out" with a few extras. Yet where one has enough so that he can put these extras in separate barrels and have the others run evenly throughout, he can soon establish a reputation which will make this the most profitable way. After packing, allow the barrels to stand open a few days to sweat and dry off, as they will do this better in the barrels than in the heap. Then press the head in firmly and put the hoops on evenly so that there will be no rattling of the fruit in the barrel, and no bursting of heads on the way to market. Set in a cool place until ready to sell or to store in the cellar. Before putting the apples into the barrels, see that there are no nails projecting which will mar the fruit, and if intended for distant market or for long keeping, it will pay to line the barrels with a clean, stout brown paper. Do not think that anything will do to go into cider; use only sound apples, and keep them free from filth of all kinds. In the days of "natural fruit" apples, it was possible to get a good glass of cider, for the fruit was sound until ready for the mill; but to look at some cider-mills and see the mass of rotten fruit taken up from the ground with the droppings of fowl and a few tobacco quids, and delivered to mill in the dirty farm cart, is enough to deprive any one of the appetite for cider. Even if the cider is to be used for boiling down to apple jelly, or to be converted into vinegar, it is better if made from sound fruit and handled with care. In the neighborhood of large orchards, a fruit evaporator would be more profitable than a cider mill, as it would take many apples only slightly bruised or otherwise defective, but not really fit for barrelling, at much better prices than they would be worth for cider.—*The American Cultivator.*

### How to Tell a Good Potato.

To distinguish a good from a poor potato, take a sound one, pay no attention to its outward appearance, but divide it into two parts with a sharp knife and examine the exposed inner surfaces. If there is so much

water or "juice" that a slight pressure would seemingly cause it to fall off in drops, you may be assured it will be "soggy" after it is boiled. That is evidence of a poor potato, and don't you buy it.

The following are the requisite qualities of a good potato: When cut into the color should be yellowish white; if it is a deep yellow it will not cook well. There must be a considerable amount of moisture, though not enough to collect in drops and fall off, even with moderate pressure. Rub the two pieces together, and, if it is good, a white froth will appear around the edges and also upon the two surfaces after they are separated. This signifies the presence of a proper quantity of starch. The more froth then, consequently the better the potato; while the less there is the poorer it will cook. The quantity of the starchy element may also be judged by the more or less ready adherence of the two parts. If the adherence is sufficient for one piece to hold the other up, the fact is evidence of a good article. These are the experiments usually made by experts when buying potatoes, and are the best tests that can be given short of boiling; but even they are by no means infallible.

### Fading Leaves.

YES, they are fading all around us, and how forcibly they remind us of the brevity of our own lives. In the springtime they burst forth a tiny bit of delicate green brightening into the deep green of summer, vigorous and strong, showing no signs of decay; but even now, though the frosts of autumn have scarce touched them, they are putting on their bright robes of death and ere long their lifeless forms will be borne to and fro by the chill wind; and these are the forms of those same leaves which only a few days ago fluttered in the gentle gale or danced in the sunlight of summer.

And is our life as brief? Yes, and more uncertain for "Thou hast all seasons for thine own, O death!" Starting in full strength, eager for the race, how few of us pass beyond the summer of life, how very many, in fact, fall in the springtime ere the sun of our life reaches its height. Leaves



rarely fall out of their season, neither do we, but inasmuch as all seasons are ours to die it becomes us to make preparation even in springtime; then, come leaf-fall when it may, we are ready for it, and if it be our lot to be gathered in life's autumn we shall truly fade as the leaf, with our last days the brightest, cheering our path to the tomb, comforting those around us and surrounding even grim death with a halo of glory.—*M. A. Brown.*

### The Legal Tender Strawberry.

(SEE FRONTISPIECE.)

The Legal Tender strawberry is another representative of the class of small fruits that has been so much improved by cultivation that the meadows of forty years ago would not know them. Its disseminator, Mr. J. C. Gibson of Woodbury, N. J., says that it has stood the test of two years as a market berry winning high praise among the gardeners and market men of his section. We do not know what its peculiar characteristics are, but they are undoubtedly such as will give it a place among the many new introductions.

### The Poet and the Children.

With a glory of Winter sunshine  
Over his locks of gray,  
In the old, historic mansion  
He sat on his last birthday.

With his books and his pleasant pictures,  
And his household and his kin,  
While a sound as of myriads singing  
From far and near stole in.

It came from his own fair city,  
From the prairie's boundless plain,  
From the Golden Gate of sunset  
And the cedar woods of Maine.

And his heart grew warm within him,  
And his moistening eyes grew dim,  
For he knew that his country's children  
Were singing the songs of him.

The lays of his life's glad morning,  
The psalms of his evening time,  
Whose echoes shall float forever  
On the winds of every clime.

All their beautiful consolations,  
Sent forth like birds of cheer,  
Came floating back to his windows  
And sang in the poet's ear.

Grateful, but solemn and tender,  
The music rose and fell,  
With a joy akin to sadness  
And a greeting like farewell.

With a sense of awe he listened  
To the voices sweet and young;  
The last of earth and the first of Heaven  
Seemed in the songs they sung.

And waiting a little longer  
For the wonderful change to come  
He heard the Summoning Angel  
Who calls God's children home!

And to him in a holier welcome  
Was the mystical meaning given,  
Of the words of the blessed Master,  
Of such is the Kingdom of Heaven.  
—*John G. Whittier, in Wide Awake.*

### Changing the Colors of Flowers by Cultivation.

Our knowledge of the chemistry of vegetable pigments is not yet sufficiently advanced, for which reason the effect of artificial influence upon the color-tone of flowers has not yet received its merited attention. According to my view, tannin is an important factor in the generation of vegetable colors; it is found in almost every plant, the petals not excepted, and by the action of the most varying reagents—alkalies, earths, metallic salts, etc.—it assumes the most manifold hues from pale rose to deep black. A darker color, therefore, is produced in flowers rich in tannin, when manured with iron-salts, since, as everybody knows, tannin and iron-salts dye black, and produce ink. A practical use has been made of this fact in the raising of hortensias and dahlias. The former, which in ordinary soil blossomed pale-red, became sky-blue when transplanted into soil heavily manured with iron ochre, or when occasionally watered with a dilute alum solution. English gardeners succeeded in growing black dahlias by similar manipulations. It is well



known to every florist that a change of location, that is, a change of light, temperature, and soil (replanting), occasionally produces new colors, whence it may be deduced that an interrupted nutrition of the flower may, under circumstances, effect a change of color. We see no valid reason why the well-authenticated fact of the change of color produced by manuring with iron oxide, thereby changing the nutrition of the plant, should not be practically employed by the hot-house gardener. Another very singular and successful experiment, in producing a change of color in a bird, has recently been made. A breeder of canary-birds conceived the idea of feeding a young bird with a mixture of steeped bread and finely pulverized red Cayenne pepper. Without injuring the bird, the pigment of the spice passed into the blood, and dyed its plumage deep red. The celebrated ornithologist Russ believes that the color of the plumage of birds might be altered according to desire, by using appropriate reagents.—*August Vogel, in Popular Science Monthly for October.*

## THE OUTCAST.

Out in the cold and pitiless snow,  
Lonely I wander, no where to go.  
In the home of the stranger the fire sparkles bright  
While I am perishing out in the night.

O, once I was free from the curse and the stain,  
Which burdens my conscience and maddens my  
brain;  
Ere the base world deceived me and taught me  
to sin  
I was pure as those snowflakes the earth is wrap-  
ped in.

Long ago in the freshness of life's morning dew,  
I loved and I trusted,—that heart proved untrue;  
And long ere I knew of the snares round me spread,  
I learned the dark pathway of rain to tread.

Then friends and companions all cast me away,  
For the alien and outcast no pity had they;  
But hating and loathing the once cherished heart.  
From the home of my childhood they bade me de-  
part.

Then came years of sorrow, of anguish and pain,  
That smote all life's flowers that once bloomed  
so fair;  
For the world careth naught for the soul it hath  
slain,  
Nor the heart it hath blighted and cumbered with  
care.

To-night I am left in the wide world alone,  
The cold earth my pillow, the dark street my  
home;  
Fond mother, above all this tempest so wild,  
O look down and pity your perishing child!

—ROSLEIN.

## NOTES AND GLEANINGS.

NEARLY 80,000 tons of barbed wire, or a length of 500,000 miles, were manufactured in the United States in 1882.

IT WILL BENEFIT lawns to let the grass grow upon them without cutting from now until winter, for a protection to the roots during cold weather.

ONE-HALF ounce camphor, one pound of lard, and black lead enough to cover, mixed together and applied with a cloth, is said to protect iron work from rusting.

THERE are 25,000 people employed in cigar-making in New York city. There are 827,000,000 cigars and 230,000,000 cigarettes manufactured there yearly.

"MY dear," said a fond wife, "when we were engaged I always slept with your last letter under my pillow." "And I," murmured her husband, "I often went to sleep over your letters."

MARY WAGER-FISHER tells the readers of the RURAL NEW-YORKER that a thorough sprinkling of salt water from a watering pot entirely freed her currant bushes from worms. How much preferable this would be to poisoning.

OUR NATIVE HERBS, catnip, spearmint, pennyroyal, boneset, &c., are universally known to be of much value in nursing and in the home-treatment of many disorders. See to it that a good supply is gathered and properly cured in bunches before they are injured by cold weather.

THE shortest letter ever written consisted of a single letter. A French poet once wrote to Piron, the dramatist, the following two words: "Eo rus," which is the Latin for "I am going into the country." Piron, not to be beaten in the matter of brevity, wrote back, "I," which in Latin signifies "Go."

TO BANISH RATS, catch one and paint it with gas tar all over the body, except the head; let him loose, and he will run through the holes and the rats all leave in a hurry. Moles are easily dug out with a spade, by a boy keeping watch in the garden and when the dirt moves in his burrow run the spade behind him and dig him out.



### Wisdom from the Catalogues.

TREATMENT OF ORCHARDS.—*Wm. H. Moon.* The ground in young orchards should be kept cultivated, and the most practical mode of doing this is to raise potatoes, cabbage, strawberries, raspberries, or some other hoed crop, that the trees may be well worked until they come into bearing. If corn is raised, do not plant within five or six feet of the trees. Many different views are expressed as to the mode of treating orchards after they come into profit.

A coat of manure, bone dust or wood ashes should be applied every two years. In applying fertilizers, do not simply pile them around as far from the trunk as the limbs extend.

It is a good practice to allow sheep or swine to frequent orchards up to the time of ripening, that they may destroy the insects always found in fruit which drops prematurely.

To protect from the ravages of mice or rabbits, wrap the trees with roofing felt, or smear them with tar. Search should be made every Autumn or early Spring for borer worms, at or beneath the surface of the ground, cutting them out and destroying them wherever found.

Young trees sometimes grow vigorously for several years without coming into bearing, which is very discouraging to planters. If such should prove to be the case, after the fourth or fifth year, fruitfulness may be encouraged by pruning and cutting the large roots with a spade, about three feet from the trunk, in early Autumn. Summer pinching of the vigorous shoots also induces the formation of fruit buds.

Bearing trees may be trimmed any time after the leaves fall in Autumn and before the buds commence to swell in Spring, provided the trees are not frozen. Remove all limbs that point inwards, and those which touch or cross others. Where there are two limbs forming an acute angle, it is generally preferable to cut off one of them, as there is danger of their splitting when heavily loaded with fruit, but if it seems impracticable to remove either, one of them may be trimmed back closely, causing the

sap to flow into the other, and, in most cases, preventing their splitting. Trim so as to form erect and open heads, that they may have abundance of air and sun.

THE LE CONTE PEAR.—*E. Y. Teas.* The origin of this wonderful pear has been shrouded in obscurity until quite recently. The original tree, so far as known, was sent by Major Le Conte, of Philadelphia, to his niece, Mrs. Hardin, of Liberty county Georgia, some forty years ago. Charles Downing, the venerable and distinguished Pomologist, of Newburg, New York, wrote me under date of August 20, 1880, that he had just been able to trace the particular tree sent South by Major Le Conte, to the nursery of William R. Prince, of Flushing, New York, and that Mr. Prince sold it as the Chinese Sand Pear. The tree is evidently a hybrid from either the Sand Pear or Snow Pear, both of which were at the date given, growing on Mr. Prince's grounds. The growth and foliage of the Le Conte more nearly resembles the Snow Pear than the Sand Pear, and is quite distinct from any other Sand Pear Hybrid that I have seen. The tree grows nearly as upright and rapidly as a Lombardy Poplar, with large, light green, glossy leaves, and green shoots. In the Southern States this pear grows rapidly from cuttings, the same as grape vines or quince trees, and among the thousands of trees in cultivation in the South, from Georgia to Florida, and Texas, it is stated there never has been any appearance of blight or any other disease on the tree or fruit.

“The parent tree, now over forty years old, is the greatest bearing pear tree known, having yielded forty bushels of fine pears in a single season. It has no ‘off-years,’ but continues to produce the same heavy crops every year, and comes into bearing about the third year from the graft.” The fruit of the Le Conte is large, bell-shaped, of a rich, creamy yellow color, with a handsome blush on the sunny side. It ripens in July and August, and is one of the best shipping pears known. The fruit brought five to seven dollars per bushel in the New York market the past season.

Look at our premium offers. It will pay.



### The Clover Plant.

It is a close and deep feeder, sending its fine roots far down into the soil, filling the sub-soil with a net-work of rootlets. It exposes a large leaf surface, and is thus able to concentrate weak solutions of plant food, and prepare them for the formation of vegetable substance. The clover plant grows throughout the whole season, and is thus able to take up the nitrates as they form. These compounds of nitrogen are produced in large quantities in hot summer months, and, being very soluble, would be washed out by the rains, were it not that the clover plant absorbs them. This is one great advantage which clover has over all the common grains that finish their growth and are harvested before the time for the most rapid nitrification arrives. It is a well-known fact that clover prepares land for the production of large crops, and this is explained in large part by the long season of its growth, and its deep and close feeding and the storing up of compounds of nitrogen. The clover plant is largely below ground, so that removing the top takes away only a part of the vegetable matter that has been accumulated. The roots of clover are large and numerous; when they are turned over in plowing, and decay, they yield a good supply of plant food to such crops as feed near the surface, and must grow rapidly for only a few weeks. In this way the clover crop will help the succeeding wheat crop, and has given rise to the saying that "clover seed is the best manure a farmer can use." If the whole crop of clover is turned under, as a green manure, a much larger amount of plant food is put into the soil. This is one of the quickest, cheapest, and best methods of increasing the fertility of a piece of land.

### The Buttercup.

Every school girl has plucked the golden flower, and has held it under her playmate's chin and cried, "Buttercup, buttercup!" as it gave a flush of yellow to the rosy face. Every farmer's boy, too, has heard that if the cows feed upon the buttercup the butter will assume the most golden yellow

color. So the name of the flower has come to be associated with its butter-yellow color.

The history of its name reveals a different origin, however. In old English this flower was known as the "button-cop," which means simply "button-head," in allusion to the round, button-shaped flowers. The word cop meant head in old English, but it has now been superseded by cup, and the old meaning has been wholly lost. Button gradually degenerated into butter, until every one now says "buttercup." This is a peculiar instance in which the common name of a plant suggests its own origin, but suggests it falsely. The buttercup was once known as "gold-cop" or "gold-head," and "king cop," names which are still preserved in England in "gold cop" and "king cup."

The buttercup is a native of Europe, where for centuries it has been held in much esteem. It was once worn by lovers at their betrothals, and in more classical history its golden color was dedicated to Hymen. Francis Quarles, nearly three centuries ago, wrote that:

Love-sick swains

Compose rush rings and myrtleberry chains,  
And stuck with glorious king-cups in their bonnets,  
Adorn'd with laurel slips, chaunt their love sonnets,

The buttercup was introduced into America some years ago, and has now become a weed in all the Eastern States. The double garden variety has long been cultivated. The buttercup is called by botanists a *Ranunculus* or crow-foot. When eaten it leaves a harsh, bitter and acrid sensation, often so intense as to produce serious poisoning. In fact, it is a common notion in many European countries that the pretty buttercup is poisonous to cattle. Certain it is that cattle seldom eat it unless it is dried in hay, when its poisonous properties are lost. From its acrid character Linnaeus named the plant *Ranunculus acris*.

In this country there are other crowfoots which are called buttercups, and especially the creeping plant which gladdens every wet place in early Spring. The creeping crowfoot is the "cuckoo-bud" of Shakespeare's time of which he wrote:

When daisies pied and violets blue,  
And cuckoo-buds of yellow hue,  
Do paint the meadows with delight,

—*The Am. Cultivator.*





The Netherland Family. See page 23.



## EARLY CABBAGE.

BY R. S. COLE, HARMAN'S, MD.

The market gardener is more certain of success of late years in the growing of early than late cabbages. This is owing in great part to their exemption from the attacks of insects and other enemies so numerous during the growth of summer and fall cabbage. They come in, however, for their full share of enemies which makes even the growing of early cabbage a risky business. The cut worm in several instances cleaned up entire patches in this section the past season, rendering it necessary to plant the ground in something else. Salt sown heavily upon the freshly prepared ground had no visible effect on the worms. As soon as the cut worms ceased, countless thousands of small black fleas swarmed in, sucking out what little vitality was left in the plants; those disappearing after a time made room for the common green cabbage worm, which happily were not in sufficient numbers to do much damage. A sprinkling of Cayenne pepper when the dew is on seems to be distasteful to them. Early cabbage, whatever may be said, have to run the gauntlet of all these dangers before getting in condition for market. Summer and fall cabbage are liable to attacks of the European butterfly that lays the eggs which produce the worms so destructive of late years, and which is more to be dreaded than all other enemies combined. One of the chief causes of the failure of so many cabbage fields lately is the difficulty of procuring good seed. Market gardeners have gotten out of the habit of saving their own seed and trust this important matter to strangers. The result is that not one lot of seed in three is reliable. For early cabbage I sow in hot bed about the 5th of February, taking care not to make the bed too hot, as they are apt to dry out or grow up spindly. I transplant to the open ground as early as the ground can be prepared in good order. If the plants are well hardened before the setting out, a hard freezing will do but little harm, provided the plants are set deeply, allowing no part of the stalk to be above ground. The preparation of the ground for early cabbage is a very important part. It can hardly be made too rich, and a liberal application of good ammoniated phosphates is a great help. On good land, cabbage may be raised with commercial fertilizers alone; one thousand pounds to the acre is none too much. A great essential is frequent workings with hoe and cultivator; once a week is none too often. Early Jersey Wakefield is one of the earliest and

a sure header. It is rather small, however. I have had best luck with Henderson's Early Summer and Newark Early Flat Dutch, these are but a few days later and much larger; not over one plant in five hundred failed to head with me the past two seasons. I have never grown early cabbage by planting out in the fall, and am convinced that my custom of starting in a hot bed is best. Fall planted cabbage are apt to seed or winter kill, and are at best but little the earlier of the two.—[American Farmer.

## EXPLORING HUDSON BAY.

Professor Bell, who has spent five years in exploring Hudson Bay, gives, in glowing terms, an account of his wanderings in and about that great body of water, which, in his enthusiasm, he designates the Canadian Mediterranean. He states that Hudson Bay is in effect a thousand miles long, more than 600 miles wide and covers 100,000 square miles. Instead of being, as is usually supposed, a part of the arctic regions, its nearest shore is more southerly than London, and its farthest still remains within the north temperate zone. On the northeast coast there is little snow in Winter, and little rain in Summer. The tributaries of the bay are the Nelson, which discharges the waters of Lake Winnipeg; the Winnipeg, about the size of the Ottawa; the Saskatchewan, 900 miles long, pouring in from the west; and the Red River, coming 500 miles from the south. All the central part of North America, from Labrador to the Rocky Mountains, drains into Hudson Bay. The largest tributary is the Nelson, about four times the size of the Ottawa at the capital; then comes the Churchill, the Big River and the Albany. On the west side of the bay the southerly winds are the coldest that blow in the Winter, and there is less snow and less intense cold in the vicinity of York Factory and Fort Churchill than in more southerly regions. During Winter the temperature improves as one goes from Minnesota northward through Manitoba, and down the valleys to Hudson Bay, and bathing is found agreeable in July, August and September. On the southern and western shore unlimited supplies of red and white pine, spruce, white birch, balsam, poplar, aspen and tamarac are found.

"WHAT is that you are wearing?" asked Farmer John of his fair city boarder. "Oh! that is my red Jersey." "All right," was the reply, "but don't go near my brown Jersey over in that field, unless you are good at climbing trees."



### The Solid Content a Farmer Has.

Farming is a slow way to make money, but then there is a law of compensation about everything in this life, and farming has its blessings that other pursuits do not have. The farmer belongs to nobody. He is the freest man upon earth and the most independent. He has more latitude and longitude. He has a house in the country with plenty of pure air and good water. If he makes but little in the field, he has occasion to spend but little. He can raise his own hogs, and sheep, and cattle, and chickens. His wood costs nothing, and luxury of big black-logs and blazing fires in open fire-places all winter long is something that city people long for but cannot afford. My own farm cost me \$7,000. I have 120 acres of open land in good condition, and it yields me on an average about five dollars an acre over all expenses. Say nine per cent upon the investment. Well that is very little, considering my own labor and supervision. I've seen the time when I made five times as much without any capital except my head. But then we have to keep a pair of horses to ride around and they have to be fed from the farm.

There are little leaks all around, but still we are happier on the farm than we were in the town, and feel more secure from the ills of life. We fear no pestilence or disease, no burglars or thieves. We lock no doors, and Mrs. Arp has quit looking under the bed for a man. I love to hear the churn-dasher splashing in the butter-milk. I love to hear the roosters crow and the peacock holler, and see the martins sailing round the martin gourds. I love to have a neighbor stop and chat about the growing crops. I love to take the children with me to the watermill and fish below the dam amid the roar of falling waters, or paddle around the pond in an old leaky bateau. I love to wander through the woods and glades, and wear old clothes, that get no older or dirtier, and get caught in a shower of rain if I want to. Old man Horace remarked about 2,000 years ago, that the town was the best place for a rich man to live in, and the country was the best place for a poor man to die in, and inasmuch as riches were

uncertain and death was sure, it becomes a prudent man to move to the country as soon as he can get there. Farmers have their ups and downs, of course, but they don't collapse and burst up like tradesmen. They don't go down under a panic.—*Bill Arp, in Atlanta Constitution.*

### The Liquor Traffic from a Business Standpoint.

It is sometimes urged against prohibition that the liquor traffic is a great industry, and that to destroy it would be to throw many persons out of employment, and do great injury to a large moneyed interest. We admit that many persons are engaged in the manufacture and sale of strong drink, and that these persons, when prohibition prevails, will find, like Othello, their "occupation gone." We will go farther and admit that many more find employment in raising hops for beer, rye and corn for whisky, in the construction of breweries and saloons, in the manufacture of beer wagons, barrels, kegs and glasses. Even this is not all. As intemperance produces so much pauperism and crime, many find occupation in building jails, prisons, poor houses, asylums, etc., the demand for which this traffic has made. As rum drinking produces an immense amount of disease and many deaths, it gives employment to doctors, grave-diggers, undertakers, etc. Besides it necessitates more policemen and magistrates, and gives endless employment to the officers and courts of justice. Ought not such a good business be encouraged? Let us have more saloons, more breweries and distilleries, and then, of course, more prisons, jails, poor-houses, hospitals, policemen, etc.

During the war many persons found employment in casting cannon, making gunpowder, lint, bayonets and the various necessities of warfare. Contractors grew rich. A great number of people made piles of money and became suddenly wealthy. Was the war therefore a blessing? Should it have been fostered as a great industrial and moneyed interest?

Even in a pestilence some find employment and profit. We might just as well



foster sickness and disease, because so many make a living by the manufacture and sale of drugs and medicines, as to encourage or spare the liquor traffic because so many find a living in it. Many more find death in it. The grain that is turned into the fiery poison will do much better service when turned into bread. The men who now sit behind a beer barrel and make a living by turning a faucet, will be better and more useful citizens when employed as actual producers.

When less money is spent for beer and rum there will be more expended for food, fuel and clothing. In fact, the rum business is the foe of every honest calling. It lives by the destruction of all about it. He who spares it, spares the enemy of his race. Business men should come to the front in the temperance movement.—*Rev. Jesse S. Gilbert, A. M., in Temperance Gazette.*

## A Village of Terrors.

A Detroitter who had business in a village in Washtenaw County drove out there in a buggy, and of course went to the inn for his dinner. The landlord made no inquiries until after the meal was eaten and paid for, and he then found opportunity to inquire:

“Were you going out to ‘Squire Brown’s place?’”

“No.”

“I didn’t know but you were a lightning-rod man, and I was going to say that the ‘Squire has threatened to shoot the next one on sight. We don’t go much on them fellers around here, and I’m glad you are somebody else. Maybe you are going over to Judge Hardy’s to sell him some fruit trees for Fall setting?’”

“No.”

“Well, that’s lucky. Only yesterday the Judge was remarking to me that the next fruit-tree agent who entered his gate would want a coffin. Fact is, I myself have got to do some kicking to pay for being swindled on grape vines. You are not a patent-right man, eh?”

“No.”

“Well, that’s a narrow escape for you. We’ve been swindled here on hay forks,

cultivators, gates, pumps, churns and a dozen other things, and I’m keeping sixteen bad eggs for use when the next patent righter shows his face in this town. Perhaps you are a lecturer?”

“Oh, no.”

“Well, you haven’t lost anything. We never turn out very strong here to a lecture. The last man who struck us lectured on ‘Our Currency,’ but didn’t take in enough of it to pay me for his supper. You are not a book-canvasser?”

“No.”

“That’s another escape. We’ve been laid out here so often that if an agent should offer to sell a \$20 Bible for fifty cents we’d suspect a trick to beat us. Strikes me now that you may be a lawyer.”

“No.”

“Good ‘nuff. Last one who settled here had to leave town at midnight, and we don’t want any more. Say, what are you, anyway?”

“A politician,” replied the Detroitter.

“A politician! Then git! For Heaven’s sake! don’t stand around here if you value your life! We’ve just impeached our pound-master for embezzling the public money, and the excitement is so intense that the Democrats will ride you on a rail or the Republicans duck you in the water-trough. Git right up and scoot!”

“He lies like a tombstone and exaggerates like a gas meter,” is a statement which illustrates the the extreme lengths of hyperbole.

A BOY in a country school was reading the following sentence: “The light-house is a landmark by day and a beacon by night, and rendered it thus: “The light-house is a landlord by day and a deacon by night.”

Look at Reed’s advertisement of Concord Grapes on page 25. Every reader of SEED-TIME AND HARVEST should send a trial order for a dozen. You are sure to be pleased. Satisfaction guaranteed.

Life is but an Inn, where travelers stay;  
Some only breakfast, and then away;  
Others to dinner stay, and are full fed;  
The oldest sup and go to bed;  
Long is his bill who lingers out the day,  
He who goes the soonest has the least to pay.

—Old Epitaph.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. X.

WHOLE NO., XXIV.

LA PLUME, LACKAWANNA CO., PA., OCTOBER, 1883.

"Dear Autumn days, now hastening,  
Why speed ye on so fast?  
E'en while thy sweets we're tasting  
We yearn to have them last."

**The Subscription Season** has arrived, and we are happy in announcing that clubs are freely coming in by every mail, by ones, by twos, by fours, by tens, by dozens and by scores, and yet there's room to enroll many more as we have a separate large subscription book for each state in the Union, in all of which there is room to enroll 148,480 names. If each of our present subscribers would devote one day to canvassing, new books would be necessary. Will you not help to bring about this necessity?

"Cheerily sings the old heart, while slowly sets the sun;

'Tis autumn chill, 'tis eventide, and rest is now begun.  
Brave was the heart that did its part,  
And ever upheld the right;  
Now sets the sun, the work is done;  
Now comes night."

**The New Postal Note System** is now in operation (since September 3, 1883) and any of our friends, who have the slightest desire to do so, can now safely send us any amount of money from one cent to \$4.99 at an expense of three cents besides postage. In point of safety and convenience these Postal Notes will be about equal to Bank Checks with the additional advantage of being payable at distant points where a fee of fifteen or twenty-five cents is often charged for collecting checks. The Postal Notes are only issued by and payable at Money Order Post Offices. They are made payable to bearer at any time within three months from the last day of

the month in which they are issued. They are simply a draft on the Post Master at the office on which they are drawn. The person to whom they are paid must receipt them so the paid notes show who drew the money. No written application is required, as in purchasing a Money Order; you simply tell your Post Master, or the Post Master at the nearest Money Order Post Office, that you wish a Postal Note for \$4.99 (or less) on La Plume, Pa.

**Our Premium Offers** will remain open until November 1, when they will positively be withdrawn, or rather, changed, and work will be begun on an entirely different plan. After November 1, you may offer each subscriber paying 50 cents, a year's subscription to SEED-TIME AND HARVEST, and a premium Seed Certificate worth 25 cents. Then for your trouble you may select any premium we offer to the value of one-half the money sent us. Thus four names and \$2.00 will be required to secure the "Premium Dictionary," or "In a Nutshell." In addition to these premiums we shall soon offer some handsome cash prizes to the persons sending the largest lists before a certain date. Do not fail to look for these announcements in our next issue. The Watch and Dictionary Offers as printed on the covers of this issue *do not* include the seed certificate to each subscriber.

"And now the merchant wary  
Will deem it necessary  
To have an advertisement well displayed, played,  
played,  
Within his favorite paper,  
For that's the proper caper  
By which to catch the coming autumn trade, trade,  
trade."

AMONG THE MANY catalogues recently received at this office, that from Mr. A. Blanc, of Philadelphia, richly deserves especial mention. Mr. Blanc is an engraver of Fruits, Vegetables and Flowers, and the volume before us shows proofs of hundreds of very fine engravings of which he will supply electrotypes at low rates. No Nurseryman, Seedsman, Florist or other person issuing catalogues or price lists should fail to secure Mr. Blanc's Book of Engravings. Mr. Blanc is a regular advertiser in SEED-



TIME AND HARVEST and we are glad to see such evidences of prosperity in his speciality as is shown in his new catalogue.

WE DESIRE TO CALL especial attention to the large advertisement of the Chicago Scale Co., to be found on page 32, as this is the last time it is to appear. This company is perfectly reliable and is turning out immense quantities of scales of all sizes, to weigh from 5 lbs. to as many tons, at astonishingly low prices. Their Forges and Blacksmith's tools are also leading the market. We earnestly request all who are in want of this class of goods to send for their circulars and price lists. This request is made by the publishers, without the knowledge of the above company, and must not be looked upon as a blind advertising puff.

MR. A. B. FARQUHAR, of York, Pa., is proprietor of the largest establishment in this State, if not in the Union, for the manufacture of all classes of Agricultural Implements of the most approved patterns, and his immense catalogue recently received shows the greatest variety from a hoe to a steam-engine, or steam saw-mill.

AS SEED-TIME AND HARVEST has for the past year been printed by the power supplied by a Farquhar engine, which has given the most complete satisfaction, we take pleasure in voluntarily calling the attention of our readers to Mr. Farquhar's advertisement on page 29, and invite all who are interested to write at once for his catalogue, in which the greatest variety of well made implements will be found.

#### OUR POSTAGE LAWS.

It is strange how hard it is for many people to properly understand our postal laws. When any changes are made it seems to take years for the public to get entirely accustomed to them and not make continued blunders. One popular error, still running at large, is the supposition that a person has the right to mail a written letter for one cent *if left unsealed*, and we very frequently receive such open letters. There is no such law or right, and if the Post Master discovers such a letter at the office where it is mailed it is his duty to hold it for postage, and if not fully paid to send it to the

dead letter office, or, if sent through unobserved, it is the duty of the Post Master at its destination to collect before delivering. The only allowable written message which can lawfully be forwarded for one cent, is that written on a postal card.

The recent change in letter postage, so much talked of, is simply a reduction of single rate letter postage from 3 cents to 2 cents. There is no change, whatever, in the value of stamps. Any of the old stamps are worth as much now as ever they were, but the old three-cent stamps will not be so much needed now as formerly, yet they can be used on merchandise, books, packages, etc., or a three and a one will carry an overweight or one ounce letter, which will now require four cents instead of six as formerly.

A Boston paper is responsible for the following which is an illustration of the prevailing ignorance in regard to the new postal law: "We saw, one day this week, three whole sheets of the long familiar green stamps, three hundred stamps in all, pasted up on the wall in a certain country store not twenty-five miles from Boston. In answer to our query 'Why is this?' the storekeeper replied, 'Well, I got kinder stuck on those; I didn't know the law was going to be changed, and I took those stamps at face value from a cigar peddler six weeks ago. Now they ain't worth anything, and our Post Master will not change them for two cents, so I've stuck them up there to remind me what a darned fool I am.'" We fully coincided with him in his conclusion, but were at some pains to convince him that the process by which he reached it was wrong, and we finally left him trying to soak his \$9 worth of stamps off the wall by means of a wet sponge."

The new Postal Notes are a convenience so far as they go, but as their use is confined entirely to Money Order Offices, and as but about six thousand out of nearly fifty thousand Post Offices in this country are Money Order Offices, it will be seen that but comparatively few country people are benefitted by them. If these could be obtained at *any* Post Office they would satisfy the people, but until then nothing but the old fractional currency will fill the requirements of the great public who wish to send small amounts by mail.



## OUR CLUBBING LIST.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST, (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

|                                    |        |
|------------------------------------|--------|
| American Agriculturist.....        | \$1.10 |
| American Rural Home.....           | 1.00   |
| Agricultural Epitomist.....        | .40    |
| Country Gentleman.....             | 2.25   |
| Demorest's Magazine.....           | 1.75   |
| Farm and Garden.....               | .35    |
| Farm Journal.....                  | .35    |
| Farm and Fireside.....             | .50    |
| Fruit Recorder.....                | .75    |
| Floral Cabinet.....                | 1.00   |
| Gardener's Monthly.....            | 1.75   |
| Green's Fruit Grower.....          | .20    |
| Household.....                     | .90    |
| Harper's Magazine.....             | 3.50   |
| New York Tribune, Weekly.....      | 1.25   |
| New York Tribune, Semi Weekly..... | 2.20   |
| Poultry World.....                 | 1.00   |
| Practical Farmer.....              | 1.00   |
| Rural New Yorker.....              | 2.00   |
| St. Nicholas.....                  | 2.75   |
| Scientific American.....           | 2.75   |
| Scribner's Monthly (Century).....  | 3.60   |
| Toledo Blade.....                  | 1.25   |
| Vick's Monthly.....                | 1.00   |
| Western Plowman.....               | .50    |
| Youth's Companion.....             | 1.75   |

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.

WE DESIRE to call the attention of our readers, especially those who desire to purchase plants, machinery, &c., to our advertising columns where they will find the cards of many first-class firms whom it is a pleasure to recommend for fair dealing. Should you want anything in their line write to them before ordering elsewhere, and in so doing, it may be an advantage to all concerned if you will say you saw their advertisement in SEED-TIME AND HARVEST.

Now is the time to make reports of gardening operations for publication. They are interesting even if they are reports of failures, especially if the causes of the failures are given, as they expose the quicksands on which we are all liable to stumble and show us how to avoid them in our operations.

## THE EDITOR'S TABLE.

THE high character of "THE POPULAR SCIENCE MONTHLY" is vigorously sustained by its October issue. Of its fifteen articles there is none which will not repay careful reading, and from which something new and valuable can not be learned. The present state of thought in regard to the nature of life is well reflected in the first article, by Paul R. Shipman, on "Matter Living and Not-Living." Dr. Bayard then takes a hand in the conflicts of the medical schools, to show that "Homœopathy" is a "Science." Dr. Abraham Jacobi has an elaborate and most interesting article on "The Historical Development of Modern Nursing." "Clothing and the Atmosphere," by Radeau; "The Chemistry of Cookery," by Professor Williams; and "The Alcohol-Habit," by Dr. Oswald, in his series on "The Remedies of Nature," are papers of great practical worth. Those of more purely scientific interest are "Cyclones and Tornadoes," "The Colors of Flowers," "Vegetating Animals," "How the Earth was Peopled," "The Liver-Fluke in Sheep," "The Savings of Science," etc., etc. There is a portrait and biographical sketch of the celebrated hygienist of Munich, Dr. Max von Pattenkofer, and a large mass of criticism and miscellaneous information in the editorial departments. The October "Monthly" is a kind of scientific book that will be permanently valuable, and this is wherein it differs from most of the other magazines.

D. Appleton & Co., N. Y. Fifty cents per number, \$5 per year.

THE PHILADELPHIA RECORD is a marvel of cheapness. It is a large 32-column paper, printed every day in the year, containing all the notable news of the country and a vast amount of other interesting reading matter. It is mailed to subscribers at the low price of \$4.00 per year, and sold upon the street at one cent per copy. Every Saturday the RECORD prints a double sheet, giving sixty-four columns for one cent. The Saturday edition contains an excellent Farmers' department. The RECORD has attained a daily circulation of 117,000 copies.

The entire NEW YORK WORLD newspaper property was sold to Mr. Joseph Pulitzer, and has been changed in purpose, policy and principle. The WEEKLY WORLD is now one of the brightest, newsiest and most readable weeklies which comes to our to our office.

BEATTY'S ORGANS.—Nothing can be more appropriate for a holiday, birthday or wedding present than one of Mayor Beatty's fine organs. He offers one of his latest styles, tee Mozart, at greatly reduced prices, and prepays all freight, if ordered within five days of Oct 15th. Read his advertisement and order without delay, thus securing the instrument at the lowest possible price.

Have you seen Reed's advertisement on page 25? Look at it and order at once and you will not regret it. He will do just as he says he will. Send you 12 choice Concord vines for \$1.00. A good crop, second year. Order now.



## LETTERS FROM THE PEOPLE.

Jamestown, N. Y., Aug. 24, 1883.

Isaac F. Tillinghast: Dear Sir,—The seeds I got of you have done exceedingly well, considering the cold wet spring. I like your SEED-TIME AND HARVEST. You may consider me a permanent customer both for seeds and publication. I tried to get a number of persons to send for your collection of seeds, but they were scared. They invariably said something like this, "How is it he gives so much for a dollar?" "There is a screw loose somewhere", or, "A lot of seeds he wants to get rid of" etc. But not one of them has a garden to compare with mine,—only a woman, two small children to attend to, and poor health besides. I also lend some of them my SEED-TIME AND HARVEST, and now they are willing to acknowledge that I got a bargain. I could not possibly use all the seeds, so I gave the surplus away. Shall send for your manual of Vegetable Plants when I have the money to spare. Our little farm (40 acres) is located about two miles from Claremont, on the James river, half way between Norfolk and Richmond. Claremont is the terminus of the A. & D. B. R., now building. From there truck, fruit, etc., can be shipped by steamer to Norfolk. Richmond, Philadelphia, New York, Boston, Washington and Baltimore, to say nothing of the smaller towns further inland. What an excellent opportunity for making money on truck and fruit for the next five years, and yet scores of persons in this town are laughing at us, and telling us "farming don't pay," predicting we will be glad to come back to Jamestown again, and that we will soon be penniless, etc. But I think I can teach them a useful lesson. It is not the money I think about altogether. I love the work, and under the circumstances, I think I have an even chance of success, especially when this one fact is added: The farm is paid for; our house and lot here is paid for. We do not believe in having mortgages astraddle of our roof. We can take about twelve hundred dollars along. And it is only six years since I was obliged to pawn a seventy-five dollar sewing machine for fifteen dollars to pay our fare to Jamestown. My husband only has two dollars a day and has had to loaf six months of the time, and the best of all is the fact that every penny has been got honestly.

Now I have three questions to ask. If you cannot answer the third one please put it in SEED-TIME AND HARVEST and perhaps some of your patrons can.

Land is second growth pine. The custom there is to leave stumps to rot out, which they do in two or three years. I would prefer to get them out if not too expensive. It seems to me I once read somewhere of a preparation put into a hole bored in a stump, allowed to stand a certain time (plugged up) and then fired, and roots and stumps would smolder away. I think one ingredient was salt-petre.

Can it be done with green pine stumps?

How long before they can be fired?

What are the ingredients of the preparation, and proportions of same?

Now is the time to make the most money at gardening before the tide of emigration sets in too strong. Respectfully, MRS. M. M. HEY.

ANSWER: We earnestly request answers to above questions from any of our readers who have had experience in the subjects presented.

Beattyville, Ky., Aug. 27, 1883.

Mr. I. F. Tillinghast; Dear Sir,—The seeds I got of you this spring did well but the bugs went for my cabbage plants. I beat you on the Golden Dawn Mango for size. I have now forty-eight pods pulled. They are a great show in this country. The potatoes that I got of you a year ago last spring I double cropped last year and am double cropping this year. I planted on the first day of August and dug them on the third day of November. I think the Early Beauty of Hebron can be double cropped most any where in Kentucky.

I would like to know if you have any of the Nepal or Beardless Barley, and if it is good for malting purposes? And what is it worth per pound. Yours Truly, ROBERT TEWART.

ANSWER;—There is no barley of any kind grown in this vicinity, hence we know practically little about cultivating it and do not keep seed barley.

## NOTES AND GLEANINGS.

NOW IS THE TIME to order roses for winter blooming in pots, if you haven't them already growing. There are several well known firms who make a business of producing and mailing pot roses in almost endless variety, and a dollar sent to any of them will certainly be well invested.

WHEN the editor proposed and was accepted, he said to his sweetheart: "I would be glad if you would give me a kiss; then, observing her blush, he added, "not necessarily for publication, but as a guarantee of good faith." She could not resist that.



Josh Billings says: "I haven't much doubt but that man sprung from the monkey, but what bothers me is where the cursed monkey sprung from."

A little girl read a composition before the minister. The subject was "The Cow." She weaved in this complimentary sentence: "The cow is the most useful animal in the world except religion."

A political newspaper is appropriately called an organ, because it is frequently a wind instrument run by a crank. If it fails to give satisfaction to its readers there are too many stops. Then again it takes a barrel of money—to run it, and there are so many strings to handle it is often taken for a lyre.

## Advertisements.

*In writing to any of our advertisers, please mention that you saw their advertisement in SEED-TIME AND HARVEST.*

**ILLUSTRATED CATALOGUE** of Rare and Curious Books free. F. A. DISSINGER, Campbelltown, Pa. 10-11

**IN-GROWING** } A reliable Remedy. Mail 50 cts. in 1 & 2c  
**NAILS.** } stamps to H. M. Rich, Baltimore, Md.\*

**MATRIMONIAL** Paper 10cts. a copy by mail. Address, Pub. MIRROR, Wellesley, Mass.\*

**"GLAD TIDINGS."** Easy childbirth, mothers only. "MEN'S DISEASES," men only. Either free. Address DR. STAINBACK WILSON, Atlanta, Ga.

**BIGGEST THING OUT** Illustrated Book Sent Free. (new) E. NASON & CO., 120 Fulton St., New York.

**Chestnut TREES BY MAIL.** 12 Spanish or 15 American Sweet for \$1.00. W. H. MOON, Morrisville, Pa. 10-11

**RUSSIAN Mulberry** and Apricot Seeds and Trees. E. L. MEYER, Hutchinson, Kans.

**STRAWBERRY PLANTS and TREE SEEDS** and Evergreens. **GRAPE VINES** Heavy stock. Low prices. Send for Catalog. J. JENKINS, WINONA, Columbiana Co., Ohio.

**COOL HILL JERSEY HERD.** (A. J. C. C. H. R.)

Animals of exceptional beauty and merit, at moderate prices. Address, JNO. G. BIGHAM, M. D., 10-13pd Millersburg, Ohio.

## Plymouth Rocks.

We have a few fine Chicks of this excellent breed, from Gilman's strain, which we will sell at reasonable prices. Also five hens one year old, fine ones. No circulars. Write for what you want. Refer to the publisher of *Seed-Time and Harvest*. Address,

W. H. CAPWELL, La Plume, Pa.

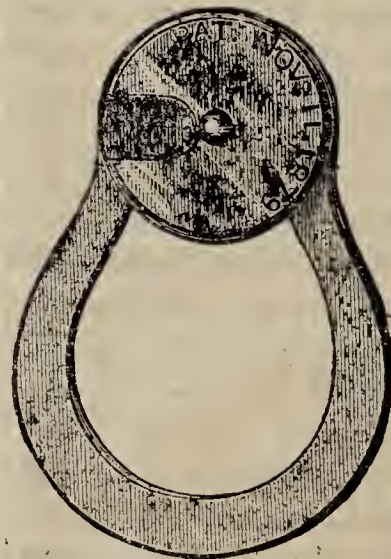
**FITS PERMANENTLY CURED**  
BY THE ANTI-FIT REMEDY  
ENDORSED BY THE MOST EMINENT  
PHYSICIANS. SURE, SPEEDY & RADICAL  
CURE, GUARANTEED. SAMPLE & PAMPHLET  
FREE ON APPLICATION. ADDRESS,  
EPILEPTIC REMEDY CO. 47 VESEYS ST. N.Y.

**TREE AND POT LABELS**  
PLAIN OR PAINTED  
FOR PRICES? SAMPLE WRITE  
PENFIELD BLOCK CO  
LOCKPORT, N.Y.

## MAMMOTH BRONZE TURKEYS

bred from fowls weighing 56 lbs. per pair. Taken 1st Premiums wherever exhibited. Price \$5 per pair, \$7 per trio. Safe arrival and satisfaction guaranteed. S. B. WOODROW, TARENTUM, Alleghany Co., Pa. \*

**OVER** The Garden Wall, and 16 other fine Songs, with words and Music, 100 Choice Selections for Autographs. 25 Sure and Easy Ways of Making Money at Home. All free for 10 cts. PRATT & CO., Southville, Mass. 10-1



**HERE is a NEAT** little Premium for **BOYS & GIRLS.**

On receipt of 50 cents for One new subscription we will send by return mail one of these *Puzzle Key Rings*, an ingenious and useful Yankee invention which will please you every day in the year.

Address plainly,  
**SEED-TIME AND HARVEST,**  
La Plume, Pa.

## THE 'RIGHT SPEEDY' Corn Sheller.

Cheap, Durable and Effective; shells 12 to 14 bushels per hour.

It is the best hand Sheller made and I warrant it for 5 years.

Price \$5, or handsomely nickel-plated, \$6.

**AGENTS WANTED.** If no agent in your vicinity, I will send Sheller, expressage paid, on receipt of price. Send for circular.

CURTIS GODDARD,  
Alliance, Ohio.



A. Wellington,  
Manufacturer of  
**FLORISTS' MAILING BOXES,**  
**GRAPE BASKETS, &C.,**  
North East, Erie Co., Pa.





**SHORTHAND WRITING**  
thoroughly taught by mail, or personally. Good Situations procured ALL PUPILS when competent. Caligraphs SOLD Stenographers furnished without charge for my services. Send for free circulars.  
**W. G. CHAFFEE, Oswego, N. Y**

—ESTABLISHED 1839.—

## THE SOUTHERN CULTIVATOR and Dixie Farmer.

The oldest Agricultural Journal of the South.

Advertisements, first insertion, 20 cents per line; each subsequent insertion, 15 cents per line.

SUBSCRIPTION, \$1.50 PER ANNUM.

This Journal has a large circulation in all the states of the South. To reach the Southern Agriculturists, it is an Unrivalled Medium for Advertisers.

Those who would like to become subscribers to the Leading and Standard Agricultural Monthly of the South can get a specimen copy by addressing,  
**SOUTHERN CULTIVATOR, Atlanta, Ga.**

### CHALLENGE LABOR-SAVING

## LAUNDRY SOAP

is the best now on the market and can be made by any one at home at a cost of only **TWO CENTS A POUND.**

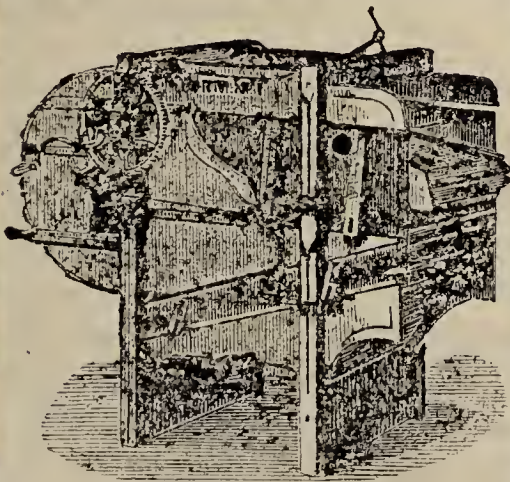
Testimonial.—“My wife gave it a fair trial and she praises it sky high. She finds it washes better and cleaner than Dobbins’, Davis’ Prize Soap or Siddall’s with just one-third the time and trouble.”

**L. L. Rees, Cambria City, Pa.** The formula and family right to make and use Challenge Soap will be sent postpaid for \$1.00. (Copyrighted April 19, 1879.)

Try it and be convinced. Address all orders to  
**J. E. RUE, Jr., P. O. Box 4, LITTLETON, N. C.**  
10—12 Mention Seed-Time and Harvest.

### AN UNANIMOUS VERDICT IN FAVOR OF THE OLD RELIABLE

CENTENNIAL



FANNING MILL.

“Far superior to any other.”—ALBERT DICKINSON, Chicago, Ill.

“Quite well satisfied with it.”—J. W. SYKES & Co., Chicago, Ill

“Extremely well pleased.”—STEELE BROS. & Co., Toronto, Ont.

“They give perfect satisfaction.”—AMERICAN SEED Co., Chicago, Ill.

“Far superior to any we have used.”—HIRAM SIBLEY & Co., Chicago, Ill.

“Refer any one to me.”—J. W. MEEK, Chicago, Ill.

Can you **DOUBT** the **WORD** of such Men as **THESE?**

Send for Catalogue—Costs Nothing.

**S. FREEMAN & SONS,**

10—13pd

**RACINE, WIS.**

**DANIEL BOONE,  
ATLANTIC,  
JERSEY QUEEN,  
JAMES VICK,  
Prince of Berries,  
MANCHESTER,  
SENECA QUEEN.**

## NEW STRAWBERRIES

A new Illustrated Descriptive Catalogue of these and many other New and Choice varieties of **SMALL FRUITS, FREE!** Trees, Vines, **ROSES**, etc.,  
**H.S. ANDERSON, Cayuga Lake Nurseries,  
Established 1855. Union Springs N.Y.**

**CARDS YOUR NAME** on 50 New Chromo, our pack, 10c.; 40 Transparent, very fine, 10c.; 25 Mixed Cards, 10c.; 25 Gold Edge, 15c.; 12 Beveled Gold Edge, 10c.; 25 Acquaintance Cards, 10c.; 25 Horseshoe Chromo, 10c.; 12 Slipper Cards, 15c.; 12 Parisian Gems, name hidden by hand holding bouquet, 30c.; 12 Photograph Cards, send photograph, we will return it, 5c. Agent's Outfit, 15c. An elegant Premium for every order amounting to \$1. or more, given free. We have the largest variety of any Card house in the World  
**BLANK CARDS** for Printers and Stationers, in any quantity, at very low prices, send stamp for price-list, none free. Address  
**HUB CARD CO., 149 Milk St., BOSTON, Mass.**

Mention Seed-Time and Harvest.

**LADIES WE GIVE** the **SOCIAL VISITOR**, largest and best story paper, 6 Months on trial, and a Beautiful **COLDEN WORK BOX**, containing 100 Best Needles; 2 Steel Bodkins; 3 long Darners, 2 short and 2 extra fine Darners; 2 Wool, 2 Yarn, 1 Worsted, 1 Mott, 2 Carpet and 3 Button Needles; 1 Safety Pin; 1 Gold-Plated Chemise Stud; 1 Elegant Silver-Plated Thimble; 1 Beautiful Gold-Plated Lace Pin, and 1 pair Elegant Lake George Diamond Earrings, for **50 cts.** Stamps taken. This great offer is made to introduce our paper in new homes. We guarantee the premiums alone cannot be bought at any store for less than \$1.25. Satisfaction guaranteed. or money refunded. Order now, and secure a Big Bargain.  
Address **The Social Visitor, Box 3139, Boston, Mass.**

## Free to Every Farmer The Union Corn Husker

is a valuable labor-saving device, worth its weight in gold to every farmer or farmer's boy and we now propose to send one of them **FREE** to any one who wants it! This Husker consists of an endless belt or band entirely encircling the hand, and provided with a spring on the back to keep it firmly on and adapt it to any sized hand. In front is a metallic slide or clasp, provided with a hooking-tooth, which catches the husk in the center of the ear, instantly stripping it off. These Huskers have received Twelve Diplomas at State Fairs, and have never failed to get the highest award wherever exhibited. It is confidently asserted that a man can do twice as much work with this Husker as without it. It does not blister, cramp, or make the hand sore, and as it can be used with gloves or mittens, it enables you to husk your corn in the coldest weather without inconvenience. Every farmer and farmer's boy ought to have **THE UNION CORN HUSKER**. We will tell you how you can secure it *free of cost!* We publish a very valuable and interesting paper called **The Rural Home Journal**, each issue of which is finely illustrated and contains eight large pages, 32 columns, devoted to Agriculture, Horticulture, Household Hints, Stories and Poems, Ladies' Fancy Work, Health Hints, Reading for the Young, Wit and Humor, the News, the exposure of Humbugs, etc., etc. It is a paper for every member of the family, and will entertain and instruct all. So popular and universally liked is **THE RURAL HOME JOURNAL** that it already has a circulation of 70,000; for next year, however, we are very anxious to increase our circulation to 100,000, and believing that all whom we can induce to take the paper for a short time now will be so well pleased with it that they will hereafter become regular and permanent subscribers, we now make the following *unparalleled offer*: Upon receipt of only **Eighteen Cents** in postage stamps we will send **The Rural Home Journal** on trial for **Three Months**, and to every subscriber we will also send **Free and post-paid**, one of the **Union Corn Huskers**. The Husker, which will last a lifetime and will be very valuable to you every year in the husking season, costs you nothing, as it is given free as a premium with the paper. Every wise man and boy will take advantage of this opportunity. It is no humbug! If you are not perfectly and entirely satisfied we will cheerfully return your money. Five subscriptions and five Huskers will be sent for 72 cents; therefore by getting four of your friends to send with you, you will secure your own free. As to our reliability, we refer to any publisher in New York, and to the Commercial Agencies, as we are an old established and well-known house. Address  
**F.M. LUPTON, Publisher, 27 Park Place, New York**



## Puzzle Garnerings.

EDITED BY FRANK S. FINN.

— O —

All Communications intended for this Department should be addressed to Frank S. Finn, No. 753, Massabesic Street, Manchester, N. H.

Answers and original contributions solicited from all.

### OCTOBER GARNERINGS.

#### NO. 13. CROSS WORD ENIGMA.

In shrub, not in tree;  
 In four, not in three;  
 In run, not in flee;  
 In foot, not in knee;  
 In drink, not in tea;  
 In corn, not in wheat;  
 In pure, not in neat;  
 In plant, not in beet;  
 In dirt, not in sand;  
 In thumb, not in hand;  
 In farm, not in land;  
 In ring, not in band;  
 In rest, not in toil;  
 In twist not in coil;  
 Whole; is one who tills the soil.

RUTHVEN.

#### NO. 14. DOUBLE ACROSTIC.

(Words of five letters.)

1. A platform in ships. 2. The son of Ulla (Bible). 3. A vegetable. 4. To raise. 5. Farewell. 6. A body of water. 7. To compel. Primals and finals will give the names of two parts of a farm.

NEWTON A. BRYANT.

#### NO. 15. RHOMBOID.

Across— 1. A pin on which anything turns. 2. Nitrate of potash. 3. Smaller. 4. A portable carriage. 5. Purport.

Down— 1. A consonant. 2. A preposition. 3. Vigor. 4. A boy's name. 5. Principle. 6. Carried in a vehicle. 7. Moved with rapidity. 8. A word of denial. 9. A consonant.

ADELAIDE.

#### NO. 16. PRIZE NUMERICAL ENIGMA.

Walking upon a littered pier,

Where 1 to 3 engage  
 Unloading ships, with lusty cheer  
 Tired feeling to assuage.

Where watchful clerks descending freight  
 With rapid looks scan o'er.  
 And in their books soon 4 to 8  
 Fast as it touches shore:

I 1 to 8 applaud the skill  
 Of those who sail the seas;  
 And who, with foreign products, fill  
 Our markets, all to please.

One of Andersen's Tales for first correct answer.

BYRNEHC.

#### NO. 17. TRANSPOSITIONS.

1. Change a surgical instrument into a vegetable.
2. An insect, into a raised seat.
3. An edge, into part of the hand.

KITTIE CLOVER.

#### NO. 18. HALF-SQUARE.

1. To prate. 2. A mongrel. 3. A feminine name. 4. A jaunt. 5. To fasten. 6. A masculine nickname. 7. A consonant.

FANNIE SNELLING.

ANSWERS in December number.

Solutions to this month's puzzles must be received before Nov. 14.

PRIZES.—*The American Young Folks*, six months, for best list of answers; a book for second best list. Should there be more than one best, or second best list; or more than one correct solution to No. 16 received, the prizes will have to be awarded by lot.

#### OUR COZY CORNER.

*Uncle Samuel*: We stand corrected and ask pardon for our hasty judgment. Henceforth, we will be sure we are right before we go ahead.—*Ruthven*: Your puzzles arrived just in the "nick of time" and proved very available. You are always very happy in your efforts to please.—*Adelaide*: Thanks for contributions. You appear to know our wishes in the puzzle line and seem ever ready to gratify them.—*Netos*: The Charades will be sure to find a welcome



whenever you find the opportunity to send them.—*N. A. B.*: Garnerings from your pen will be "in order" at any time whenever the "spirit moves" you to send them.—*Byrnehc*: Favors from you will prove very acceptable. Trust to hear from you often. Did you receive the letter we sent you last August?—*Undine*: Hope the magazine reaches you regularly, and that you will put on your thinking cap and send in your quota of answers.—*L. B.*, and *B. M. H.*: Your solutions to puzzles in August number were received. Possibly more would have kept you company had more time been given them. Under the new arrangement we hope henceforth, everything will work satisfactorily to all persons.—Puzzlers and Solvers. We have many excellent contributions put away for future use, but the garner-house is large and we desire to keep it always full of puzzles and solutions, and we ask your help in doing so. Shall we have it?  
F. S. F.

## Dedication for an Autograph Album.

BY W. B. DERRICK.

AN autograph is something real,  
And, too, partakes of the ideal;  
It is the work of heart and hand,  
And will in memory ever stand.

THEN let each autograph be found  
With love and friendship to abound,  
And may some happy thought intertwine  
About each written name and line.

*Baileyville, Ill.*

## HOLSTEIN CATTLE. THE NETHERLAND FAMILY.

In this issue of SEED-TIME AND HARVEST we publish a fine engraving of the famous Netherland Family, owned by Messrs. Smiths and Powell, Syracuse, N. Y. Did space permit we would publish some of the remarkable milk and butter records made by these animals. But if any of our readers are interested in their doings, a postal card addressed to them will secure one of their elegant catalogues. They now have on hand a herd of about 500 head, which for beauty and quality is really unequalled. Their first importations for this year have been released from quarantine and are now ready for sale.

## Keeping Apples.

A correspondent gives an account of an experiment in packing a number of barrels of apples for keeping through the winter. The following extract will show the most successful result: "On the fifth of May I opened the other two barrels. That which had the paper between the layers of apples was in bad condition, but not so many were decayed as in the barrels with leaves; the last one, with each apple wrapped in paper, was in most excellent condition; there were only twenty specked and rotten apples in the whole barrel, while the color was beautifully preserved and the apple had a delicious flavor. They were fresh and beautiful in appearance, without any dampness or moisture. A gentleman present when the barrel was opened pronounced them the best kept apples he had ever seen. The success seemed to be due to the fact that the paper absorbed all the moisture that was given off the apples, while the holes in the top and bottom allowed the free circulation of air. As to the other barrel, in which paper was spread in layers, this prevented the free passage of air among the fruit, and the dampness was retained in the barrel, thereby causing the apples to decay more rapidly."

A thought for the Fairs; Too much of the horse race is detrimental to the human race.

When you have had Catarrh long enough, just send 10c. to Dr. R. C. SYKES, 181 Monroe St. Chicago, for his "True Theory of Catarrh."

The sheriff is a horticultural officer. He gathers in dead-beats, and his executions are specimens of the art'o'choke.

Snodgrass says a woman may learn from backgammon not to take up her man until she is sure of him.

The politest man of the time lives in New Orleans. He went into a tobacconist's store, bought two cigars and said courteously to the proprietor, "If you do not object to the smell of tobacco, I will smoke one of these cigars here."

The present only is ours; the future belongs to God.



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Chambersburg, Penna.

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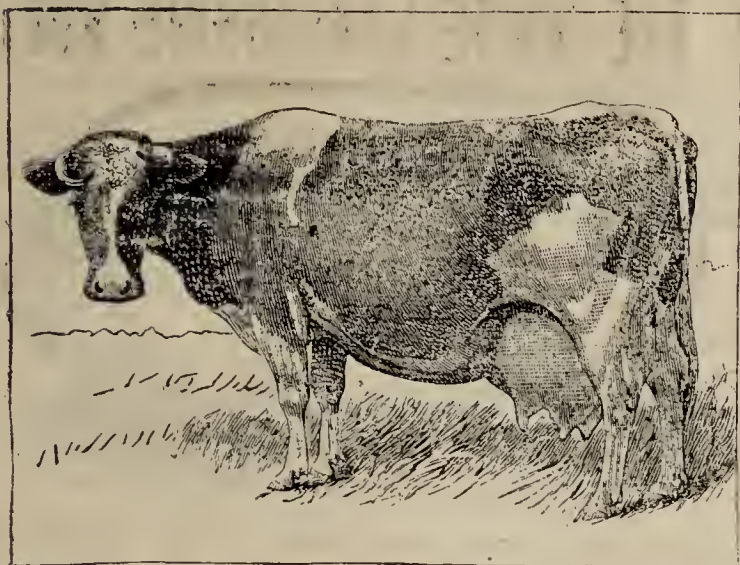
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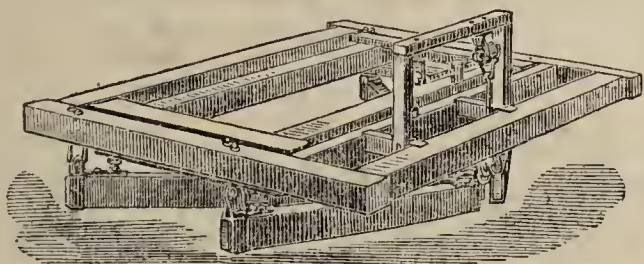
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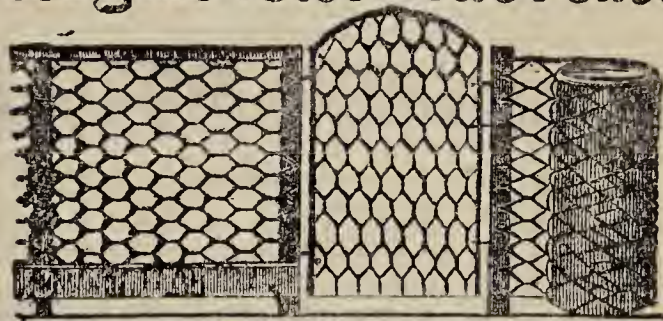
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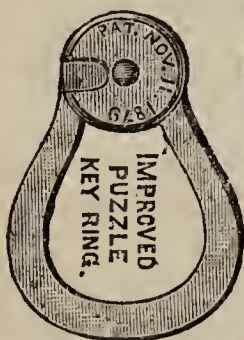


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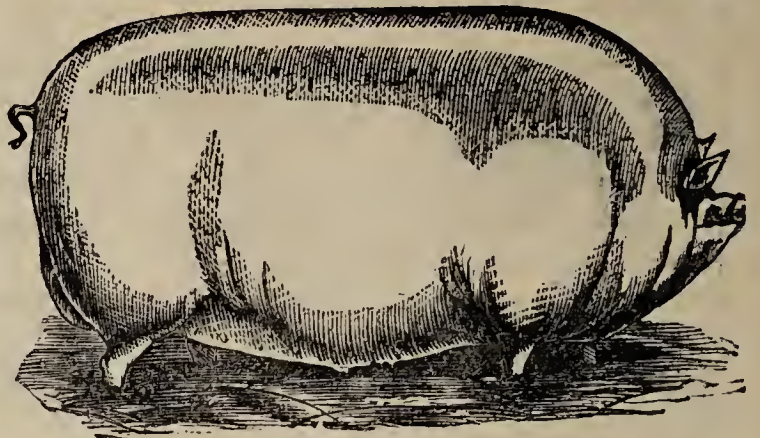
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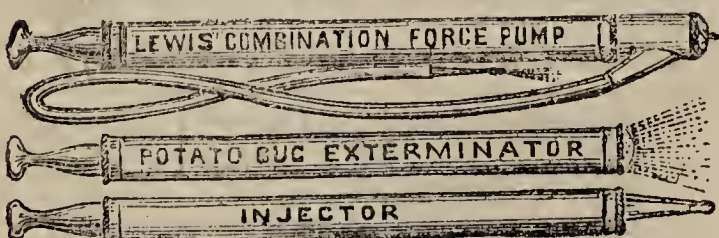
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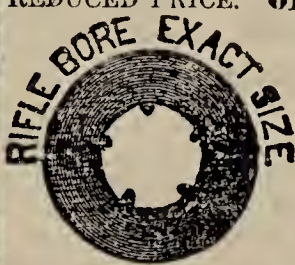
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THE ONLY GUN IN THE WORLD WHICH CAN BE LOADED INSTANTLY OR ALTERNATELY WITH EITHER SHOT OR BALLS. THE SCOTT COMBINED SHOT GUN AND RIFLE, is the invention of an expert and master mechanic, who has made the perfection of fire-arms a life study. The barrels of this MOST WONDERFUL FIRE-ARM are so mechanically arranged and adjusted that it can be used as a SHOT GUN or RIFLE SIMULTANEOUSLY. With this gun a Sportsman in a day's hunt can KILL BOTH BIRDS AND BEASTS, WITHOUT CHANGING THE BARRILS, or leaving the field. This year's improvement makes it THE BEST AND MOST COMPLETE FIRE-ARM IN EXISTENCE. **DESCRIPTION.**—Total Length 44 inches; Barrel 26 inches. Has a very ELEGANT ENGLISH WALNUT STOCK with PISTOL GRIP and removable PEEP SIGHT, fine STEEL LOCKS. All the Locks and mountings including Heel Plate are HEAVILY NICKEL PLATED. Can be reloaded in TWENTY SECONDS. It is both EFFECTIVE and ACCURATE at long or short distances. The material and general construction are GUARANTEED to be of the BEST and most SUBSTANTIAL kind. AS A COMBINED RIFLE and SHOT GUN it has no superior. To sum the matter up in a few words, WE WARRANT IT TO BE NOT ONLY PERFECT IN ALL DETAILS, BUT THE CHEAPEST AND BEST GUN EVER PLACED BEFORE THE SPORTING PUBLIC. THE REGULAR PRICE IS \$16.00, but in order to SPEEDILY introduce this WONDERFUL gun throughout the United States and Canada, we make this SPECIAL REDUCTION, and LIMITED OFFER to the readers of this paper. What we will do, upon receipt of only \$9.25 we securely box and ship the SCOTT GUN as above described with CLEANING INSTRUMENT and a box SHOT CARTRIDGES FREE to any address in the UNITED STATES or CANADA, providing you CUT THIS ADVERTISEMENT OUT and return to us with your order on or before JANUARY 1st, 1884. Or upon receipt of \$3.00 to show good faith in ordering and to cover Express charges, one will be sent C. O. D. for the balance with privilege to examine same, NO CARTRIDGES will be sent with C. O. D. orders unless paid for extra. We will only send ONE GUN with EACH ADVERTISEMENT, hence require you to CUT IT OUT and sent to us in order to protect ourselves from persons ordering in large numbers at this REDUCED PRICE. ORDER NOW and secure one of these MARVELOUS GUNS before it is too late, after JANUARY 1st, price will be \$16.00 EACH. Nothing gained by correspondence as every point is fully described, besides we warrant each gun to be just as represented or no sale. In ordering state BORE you wish Shot-Barrel, when not given we send Medium size. Money can be sent by Registered Letter, Post Office Money Order, or by Draft or Check made payable to us. If you have friends in New York you can have them call on us and examine or purchase the gun for you. THIS ADVERTISEMENT WILL NOT APPEAR AGAIN IN THIS PAPER, SO CUT IT OUT. Address or call on the



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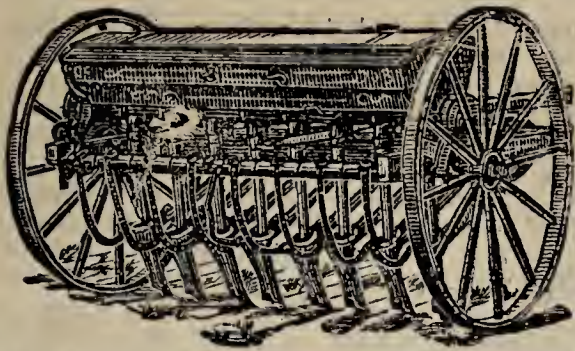
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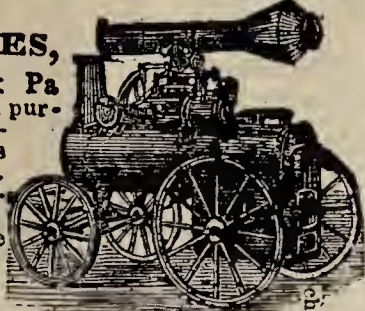
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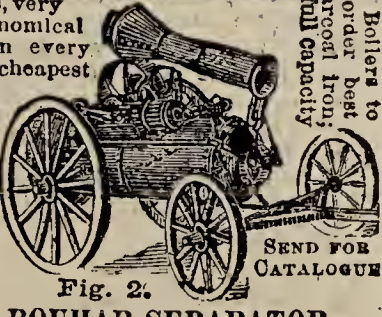


Fig. 2.

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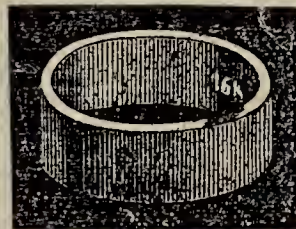
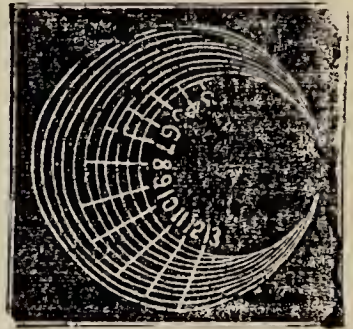


Fig. 1. is Engine in use. Fig. 2 ready for use. Boilers to order best charcoal iron; full capacity. SEND FOR CATALOGUE. THE CRICKET ON THE HEARTH is a mammoth 16-page, 64-column illustrated paper, filled with charming Serial and Short Stories, Sketches, Poems, Useful Knowledge, Puzzles, Games and Stories for the Young, Wit and Humor, and everything to amuse, entertain and instruct the whole family. You will be delighted with it, as well as with the valuable premium we offer. Five subscriptions and five Rings will be sent for \$1.00; therefore, by getting four of your friends to send with you, you will secure your own paper and premium free. This great offer is made solely to introduce our paper, and is the most liberal ever made by any reliable publisher; take advantage of it at once. Satisfaction guaranteed or money refunded. As to our reliability, we refer to any publisher in New York. Address S. H. MOORE, Publisher, No. 111 Nassau Street, New York.



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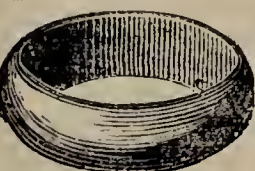
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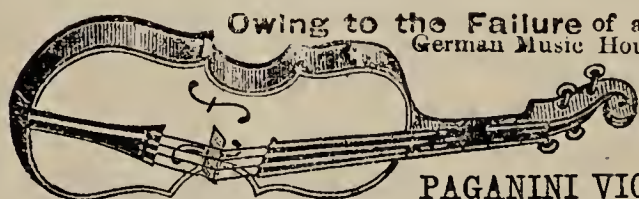
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| Wauhakum Field                | 10          | 30         | 1.00       |
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| American Racer                | 20          | 90         | 6.00       |
| American Wonder               | 15          | 50         | 4.00       |
| Extra Early Dan. O'Rourke     | 10          | 30         | 1.60       |
| Philadelphia Extra Early      | 10          | 30         | 1.60       |
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| McLean's Little Gem           | 10          | 30         | 1.60       |
| Champion of England           | 10          | 30         | 1.60       |
| Black-Eyed Marrowfat          | 10          | 20         | 1.00       |
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| Conover's Colossal            | 05          | 10         | 0.75       |
| Early Purple Giant Argenteuil | 05          | 20         | 1.50       |
| <b>Brussels Sprouts.</b>      |             |            |            |
| New Dwarf                     | 05          | 25         | —          |
| Carter's Perfection           | 05          | 25         | —          |
| <b>Beets.</b>                 |             |            |            |
| New Eclipse, true             | 10          | 25         | —          |
| Early Egyptian                | 05          | 10         | .75        |
| Bassano                       | 05          | 10         | .75        |
| Dewing's Red Turnip           | 05          | 10         | .75        |
| Yellow Turnip                 | 05          | 10         | .75        |
| Long Smooth Blood             | 05          | 10         | .75        |
| Above Varieties Mixed         | 05          | 10         | .75        |

| Mangel Wurzel Beets.                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pkt.        | Oz.        | Lb.        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------------|
| Yellow Globe                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05          | 10         | .75        |
| Norbitan's Giant                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 05          | 10         | .75        |
| Webb's New Kinver                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 05          | 10         | .75        |
| Imperial Sugar                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 05          | 10         | .65        |
| <b>Broccoli.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |            |            |
| Early Purple Cape                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10          | 60         | —          |
| White Cape                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10          | 60         | —          |
| Walcheran                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10          | 60         | —          |
| <b>Cauliflower.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |            |            |
| Lackawanna (New)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20          | 2.00       | —          |
| Early Snowball, New                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20          | 2.00       | —          |
| Earliest Dwarf Erfurt                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20          | 2.00       | —          |
| Early London                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15          | .75        | —          |
| Nonpareil                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20          | 1.25       | —          |
| Lenormand's Short Stem                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20          | 1.25       | —          |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20          | 1.25       | —          |
| <b>Cabbage.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |            |            |
| <b>American Cabbage Seeds</b> are unusually scarce this season and will be quoted very high by most seedsmen. We make a specialty of growing fine cabbage seeds and supply <i>thousands of dollars</i> worth to some of the leading dealers in this country. It is therefore not at all strange that you can do better in prices to deal directly with us than you can to send your orders to the city seedsmen who must, of course, make a profit on what they handle. |             |            |            |
| Hartwell Early Marrow                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15          | 50         | 8.00       |
| Very Early Favorite                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15          | 50         | 8.00       |
| Early York                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 05          | 15         | 2.00       |
| Berkshire Beauty, New                                                                                                                                                                                                                                                                                                                                                                                                                                                   | —           | —          | —          |
| Early Bleichfield                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10          | 25         | 4.00       |
| True Jersey Wakefield                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 25         | 4.00       |
| Henderson's Early Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10          | 25         | 4.00       |
| Newark Early Flat Dutch                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10          | 25         | 4.00       |
| Large Early Oxheart                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 05          | 20         | 3.00       |
| Early Winningstadt                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 05          | 20         | 3.00       |
| Fottler's Early Drumhead                                                                                                                                                                                                                                                                                                                                                                                                                                                | 05          | 25         | 4.00       |
| Premium Flat Dutch                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 05          | 25         | 4.00       |
| Late American Drumhead                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 05          | 25         | 4.00       |
| Marblehead Mammoth                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 05          | 25         | 4.00       |
| Perfection Drumhead Savoy                                                                                                                                                                                                                                                                                                                                                                                                                                               | 05          | 25         | 4.00       |
| Red Drumhead                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05          | 25         | 4.00       |
| Red Dutch                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 05          | 25         | 4.00       |
| Early Dark Red Erfurt                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 35         | 5.00       |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 30         | 4.50       |
| <b>Carrot.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |            |            |
| Early Short Horn                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 05          | 10         | 1.25       |
| Improved Long Orange                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 05          | 10         | 1.50       |
| Danvers Orange                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 05          | 10         | 1.25       |
| White Belgian                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05          | 10         | 1.00       |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05          | 10         | 1.00       |
| <b>Celery.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |            |            |
| Golden Hartwell, New                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 15          | —          | —          |
| La Plume Chestnut, New                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10          | 25         | 3.00       |
| Crawford's Half Dwarf                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05          | 25         | 3.00       |
| Carter's Dwarf Crimson                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10          | 25         | 3.00       |
| New Golden Dwarf                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10          | 25         | 3.00       |
| Dwarf White Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 05          | 25         | 3.00       |
| Boston Market                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10          | 50         | —          |
| Sandringham                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 05          | 25         | 3.00       |
| Giant White Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 05          | 25         | 3.00       |
| Celeriac, Turnip Rooted                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 05          | 25         | —          |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 30         | —          |
| <b>Chicory.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |            |            |
| Large Rooted                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 05          | 10         | 1.25       |
| <b>Cress.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |            |            |
| Curled, or Peppergrass                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 05          | 10         | 1.25       |
| Water Cress                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10          | 60         | —          |
| <b>Cucumber.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <i>Pkt.</i> | <i>Oz.</i> | <i>Lb.</i> |
| Tailby's Hybrid, New                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 05          | 10         | 1.50       |
| Early Cluster                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05          | 10         | 1.25       |
| Early Russian                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 05          | 10         | 1.25       |
| Peerless Early White Spine                                                                                                                                                                                                                                                                                                                                                                                                                                              | 05          | 10         | 1.25       |
| Green Prolific                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 05          | 10         | 1.25       |
| Long Green                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 05          | 10         | 1.25       |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05          | 10         | —          |
| <b>Egg Plant.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |            |            |
| Long Purple                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10          | 50         | —          |
| Improved N. Y. Purple                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 60         | —          |
| Very Early Dwarf Purple                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10          | 50         | —          |
| Striped Gaudalupe                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10          | 60         | —          |
| Long White China                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10          | 60         | —          |
| Above Varieties Mixed                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10          | 60         | —          |



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| Green Curled .....               | 05   | 30  | 2.00 |
| <b>Gourds.</b>                   |      |     |      |
| New Nest Egg .....               | 15   | —   | —    |
| <b>Kohl Rabi.</b>                |      |     |      |
| Large Purple, .....              | 10   | 35  | —    |
| Early White Vienna .....         | 10   | 35  | —    |
| Above Varieties Mixed .....      | 10   | 35  | —    |
| <b>Lettuce.</b>                  |      |     |      |
| Black Seeded Satisfaction .....  | 05   | 20  | 2.00 |
| Royal Summer Cabbage .....       | 05   | 20  | 2.00 |
| Black Seeded Simpson, New, ..    | 05   | 30  | 4.00 |
| Hanson .....                     | 05   | 20  | 2.00 |
| Victoria .....                   | 05   | 20  | 2.00 |
| Early Curled Simpson .....       | 05   | 20  | 2.00 |
| True Boston Market .....         | 05   | 20  | 2.00 |
| White Seeded Tennisball .....    | 05   | 20  | 2.00 |
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| Drumhead, or Malta .....         | 05   | 20  | 2.00 |
| Above Varieties Mixed .....      | 05   | 20  | 2.00 |
| <b>Leek.</b>                     |      |     |      |
| Large Scotch Flag .....          | 05   | 30  | 4.00 |
| <b>Musk Melon.</b>               |      |     |      |
| Nutmeg .....                     | 05   | 10  | 1.25 |
| Skillman's Netted .....          | 05   | 10  | 1.25 |
| Improved Yellow Cantaloupe ..    | 05   | 10  | 1.25 |
| Green Citron .....               | 05   | 10  | 1.25 |
| Pine Apple .....                 | 05   | 10  | 1.25 |
| Jenny Lind .....                 | 05   | 10  | 1.25 |
| Surprise, New, .....             | 05   | 15  | 2.00 |
| Bay View, New, .....             | 05   | 15  | 2.00 |
| Montreal Green Nutmeg, New, ..   | 05   | 20  | 3.00 |
| Netted Gem .....                 | 05   | 20  | 3.00 |
| Hackensack .....                 | 05   | 10  | 2.00 |
| Christiana Orange .....          | 05   | 10  | 2.00 |
| Above Varieties Mixed .....      | 05   | 10  | 1.50 |
| <b>Water Melon.</b>              |      |     |      |
| The "Boss," New, .....           | 05   | 20  | 3.00 |
| Japan Sculptured-Seeded .....    | 05   | 20  | 3.00 |
| Cuban Queen, New .....           | 05   | 20  | 3.00 |
| Phinney's Early .....            | 05   | 10  | 1.25 |
| Striped Gipsev .....             | 05   | 10  | 1.25 |
| Ice Cream .....                  | 05   | 10  | 1.25 |
| Mountain Sweet .....             | 05   | 10  | 1.25 |
| Ferry's Peerless .....           | 05   | 10  | 1.25 |
| Citron. (for preserving,) .....  | 05   | 10  | 1.25 |
| Above Varieties Mixed .....      | 05   | 10  | 1.25 |
| <b>Mustard.</b>                  |      |     |      |
| White French .....               | 05   | 05  | 60   |
| Black American .....             | 05   | 05  | 60   |
| <b>Onion.</b>                    |      |     |      |
| Southport Yellow Globe, New ..   | 05   | 20  | 2.00 |
| Southport Red Globe, fine, ..... | 05   | 20  | 2.00 |
| Early Red Globe .....            | 05   | 20  | 2.00 |
| Yellow Danvers .....             | 05   | 15  | 1.60 |
| Red Wethersfield .....           | 05   | 15  | 1.60 |
| Large Yellow Dutch .....         | 05   | 15  | 1.50 |
| White Globe .....                | 05   | 20  | 2.00 |
| White Portugal .....             | 05   | 20  | 2.00 |
| New Queen .....                  | 05   | 20  | 2.00 |
| White Italian Tripoli .....      | 05   | 20  | 2.00 |
| Giant Rocca .....                | 05   | 20  | 2.00 |
| <b>Parsnip.</b>                  |      |     |      |
| Smooth Hollow Crowned .....      | 05   | 10  | .75  |
| Early Round .....                | 05   | 10  | .75  |
| New Maltese .....                | 05   | 10  | 1.00 |
| <b>Parsley.</b>                  |      |     |      |
| Extra Fine Curled .....          | 05   | 15  | 3.00 |
| <b>Pepper.</b>                   |      |     |      |
| <b>New Golden Dawn</b> .....     | 15   | —   | —    |
| Sweet Bell or Bull Nose .....    | 10   | 25  | 4.00 |
| Large Sweet Mountain .....       | 10   | 25  | 4.00 |
| Red Cayenne .....                | 10   | 25  | 4.00 |
| Spanish Monstrous (New) .....    | 10   | 40  | —    |

|                                      | Pkt. | Oz.     | Lb.               |    |     |
|--------------------------------------|------|---------|-------------------|----|-----|
| <b>Pumpkin.</b>                      |      |         |                   |    |     |
| Large Cheese .....                   | 05   | 10      | .85               |    |     |
| Sugar. (Fine for pies,) .....        | 05   | 20      | —                 |    |     |
| Connecticut Field .....              | 05   | 05      | .45               |    |     |
| <b>Radishes.</b>                     |      |         |                   |    |     |
| Early Scarlet Turnip .....           | 05   | 10      | 1.00              |    |     |
| Early White Turnip .....             | 05   | 10      | 1.00              |    |     |
| Long Scarlet Short-Top .....         | 05   | 10      | 1.00              |    |     |
| Early Scarlet Olive .....            | 05   | 10      | 1.00              |    |     |
| French Breakfast .....               | 05   | 10      | 1.00              |    |     |
| Grey Summer Turnip .....             | 05   | 10      | 1.50              |    |     |
| Golden Yellow Summer (New) ..        | 05   | 10      | 1.50              |    |     |
| Summer Varieties Mixed .....         | 05   | 10      | 1.25              |    |     |
| China Rose Winter .....              | 05   | 10      | 1.00              |    |     |
| Black Spanish Winter .....           | 05   | 10      | 1.00              |    |     |
| California Mammoth White .....       | 05   | 15      | 2.00              |    |     |
| Winter varieties Mixed .....         | 05   | 10      | 1.50              |    |     |
| <b>Rhubarb.</b>                      |      |         |                   |    |     |
| Linnæus .....                        | 05   | 10      | 1.60              |    |     |
| <b>Salsify, or Vegetable Oyster.</b> |      |         |                   |    |     |
| White French .....                   | 05   | 15      | 1.50              |    |     |
| <b>Spinach.</b>                      |      |         |                   |    |     |
| Round Leaved .....                   | 05   | 05      | 0.50              |    |     |
| Monstrous Viroflay .....             | 05   | 10      | 1.00              |    |     |
| <b>Squash.</b>                       |      |         |                   |    |     |
| Low's Essex Hybrid, New, .....       | 10   | 15      | 2.50              |    |     |
| Early White Bush .....               | 05   | 10      | 1.00              |    |     |
| Summer Crookneck .....               | 05   | 10      | 1.00              |    |     |
| Hubbard .....                        | 05   | 10      | 1.25              |    |     |
| Marblehead .....                     | 05   | 10      | 1.25              |    |     |
| Butman, .....                        | 05   | 10      | 1.25              |    |     |
| Mammoth .....                        | 10   | 30      | —                 |    |     |
| <b>Tobacco.</b>                      |      |         |                   |    |     |
| Connecticut Seed Leaf .....          | 10   | 30      | —                 |    |     |
| Spanish Long Leaf .....              | 10   | 30      | —                 |    |     |
| <b>Tomato.</b>                       | Pkt. | Hf.-Oz. | Oz.               |    |     |
| Livingston's Favorite, New, .....    | 20   | —       | —                 |    |     |
| President Garfield, New, .....       | 10   | —       | —                 |    |     |
| Essex Hybrid, New .....              | 10   | .30     | .60               |    |     |
| Ford's Alpha, New, .....             | 10   | .30     | .60               |    |     |
| Acme, .....                          | 05   | .20     | .40               |    |     |
| Mayflower, New, .....                | 10   | .30     | .60               |    |     |
| Red Currant .....                    | 05   | .25     | .50               |    |     |
| Paragon .....                        | 05   | .25     | .50               |    |     |
| Canada Victor .....                  | 05   | .15     | .30               |    |     |
| Conqueror .....                      | 05   | .15     | .30               |    |     |
| Livingston's Perfection, .....       | 05   | .30     | .60               |    |     |
| Trophy .....                         | 05   | .15     | .30               |    |     |
| Island Beauty .....                  | 05   | .30     | .60               |    |     |
| Green Gage .....                     | 05   | .15     | .30               |    |     |
| Golden Rural, New, .....             | 05   | .20     | .40               |    |     |
| Saint Paul, (New) .....              | 10   | .30     | .60               |    |     |
| Above Varieties Mixed .....          | 05   | 20      | 40                |    |     |
| <b>Turnip.</b>                       | Pkt. | Oz.     | Lb.               |    |     |
| New White Egg, .....                 | 05   | 10      | 1.00              |    |     |
| Early White Dutch .....              | 05   | 10      | .75               |    |     |
| Purple Top Strap Leaf .....          | 05   | 10      | .75               |    |     |
| Long White Cow Horn .....            | 05   | 10      | .75               |    |     |
| Large White Globe .....              | 05   | 10      | .75               |    |     |
| Yellow Aberdeen .....                | 05   | 10      | .75               |    |     |
| Yellow Globe .....                   | 05   | 10      | .75               |    |     |
| Golden Ball .....                    | 05   | 10      | .75               |    |     |
| Above Varieties Mixed .....          | 05   | 10      | .75               |    |     |
| <b>Rutabaga, or Swede Turnip.</b>    |      |         |                   |    |     |
| White French, or Sw't German ..      | 05   | 10      | 80                |    |     |
| Skirving's Purple Top Yellow ..      | 05   | 10      | 80                |    |     |
| Brill's American Yellow .....        | 05   | 10      | 80                |    |     |
| Shamrock Swede, Yellow .....         | 05   | 10      | 80                |    |     |
| Above Varieties Mixed .....          | 05   | 10      | 80                |    |     |
| <b>Herb Seeds.</b>                   | Pkt. | Oz.     | Pkt. Oz.          |    |     |
| Coriander .....                      | 05   | .20     | Dill .....        | 05 | .25 |
| Horehound .....                      | 10   | 50      | Sage .....        | 05 | 20  |
| Summer Savory .....                  | 10   | 30      | Saffron .....     | 05 | 25  |
| Sweet Marjoram .....                 | 10   | 40      | Lavender .....    | 10 | 30  |
| Caraway .....                        | 05   | 15      | Sweet Basil ..... | 10 | 40  |
| Sweet Fennel .....                   | 05   | 20      | Thyme .....       | 10 | 50  |

**Isaac F. Tillinghast,**  
La Plume, Lack'a Co., Pa.

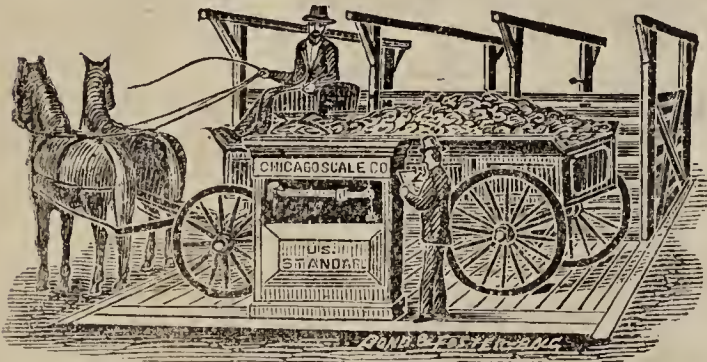


# CHICAGO SCALE COMPANY.

## SCALES, TRUCKS, &C.

*Single Scales at Wholesale Prices.*

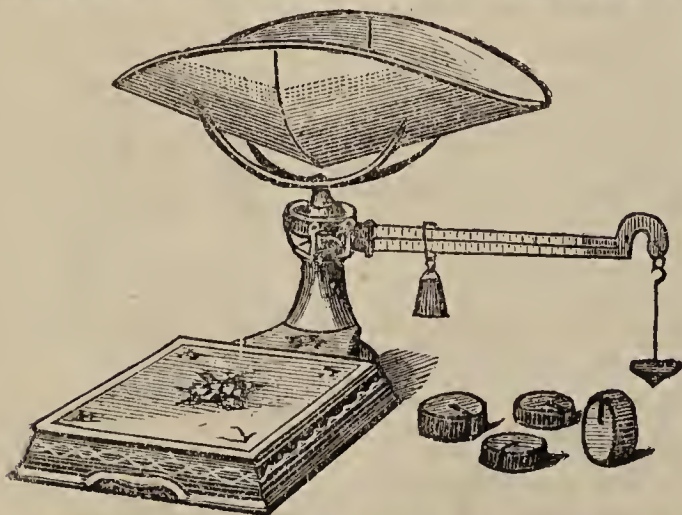
NO FARMER SHOULD BE WITHOUT ONE.  
The 'Little Detective' in every family.



**READ PRICES of WAGON SCALES.**  
2 TON WAGON SCALE (Platform 6 x 12 ft.) \$40.  
3 Ton, (7 x 13) \$40.      4 Ton, (8 x 14) \$60.  
Beam Box and Brass Beam Included.

All other sizes in proportion. The best of English Steel is used for all bearings. Scales last twice as long as any others.

## UNION OR FAMILY SCALES.



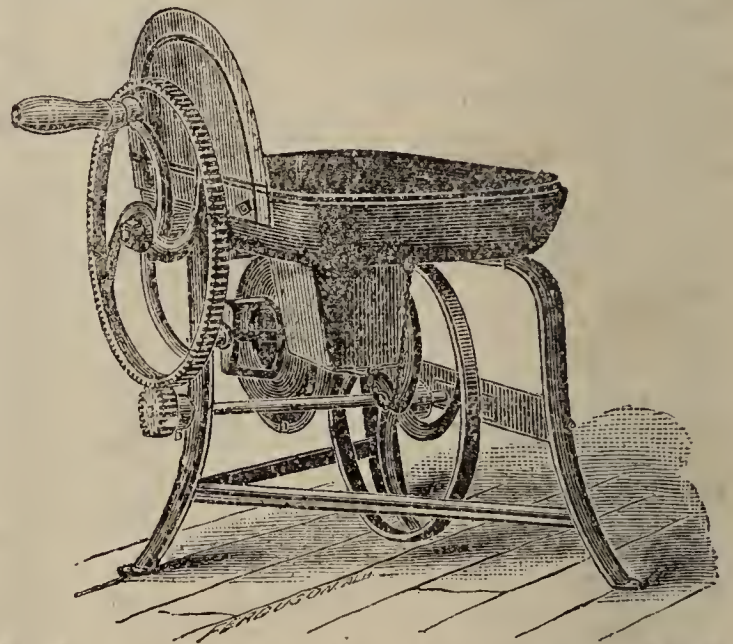
**A GOOD SCALE FOR FARMERS,**  
Weighs from ½ ounce to 240 pounds, price, \$5.00  
**THE "LITTLE DETECTIVE", \$3.00,**  
Weighs from ¼ ounce to 25 pounds. Just the thing  
for every Housewife. Steel bearings and per-  
fectly accurate. 100,000 sold in one year  
and all give perfect satisfaction. 5000 used by Post-  
Masters. Send for Circular and Price List.

**CHICAGO SCALE CO.,**  
**151 Jefferson Street,**  
**CHICAGO, ILL.**

## Portable Forges AND BLACKSMITH'S TOOLS.

Every Farmer can save time and money by doing his repairs and odd jobs. Hundreds of other articles useful about a Farm sold at **less than wholesale prices.** We send out no travelling salesmen.

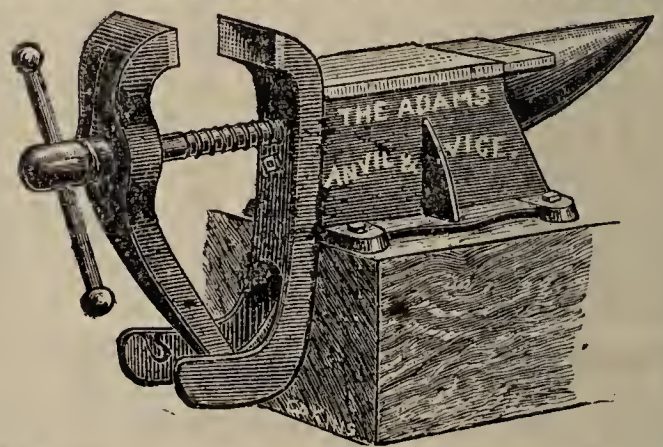
**Farmers and Farmers' Sons**  
can make money selling to their neighbors.



## A Good Forge for Farmers, \$10.

Will heat 1½ inch Iron to welding heat if wanted. All sizes larger up to one required for the largest Blacksmith and Carriage work. Also,

## PATENT BLOWERS and BELLOWS,



**ANVILS, VISES, SLEDGES, DRILLS,**  
Hammers, Screw Plates, all kinds of Blacksmith's  
Tools, Grindstones, Post-Hole Augers, Farm Bells,  
Corn Shellers and hundreds of other specialties at  
Lowest Prices. **Write us and Save Money.**

**CHICAGO SCALE CO.,**  
Chicago, Ill.



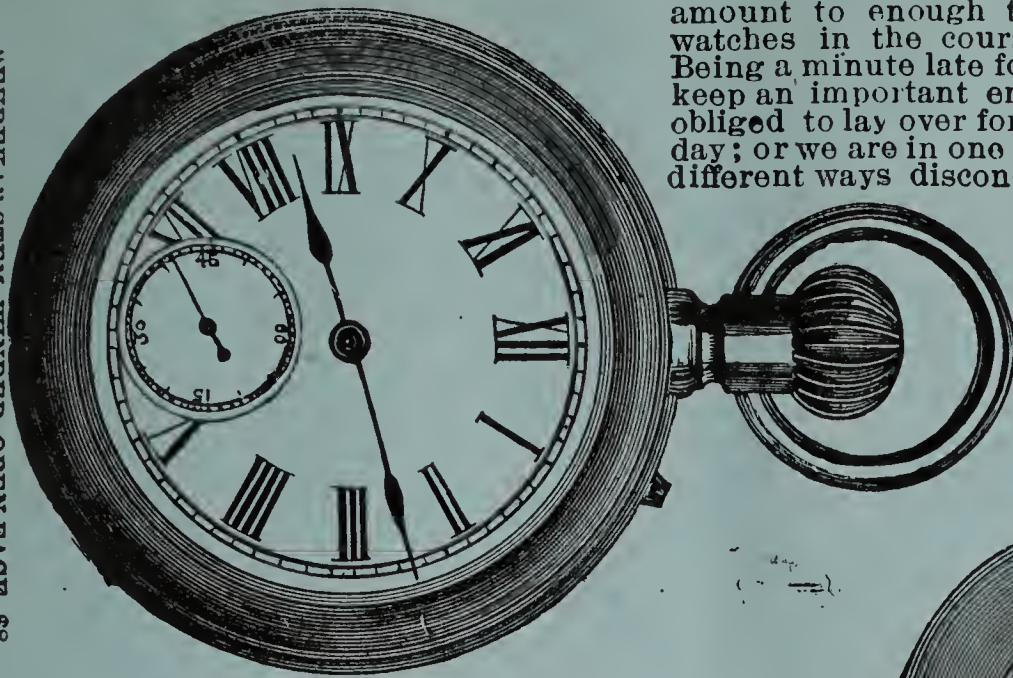
## THE ECONOMY OF A GOOD WATCH.—“Time is money.”

If an account were kept of the minutes, hours, and sometimes days, lost, fretted away, or worse than wasted in the course of a year by ignorance of the correct time, it would astonish many of us. We venture to say that there is scarcely a child not provided with a reliable watch, whose wasted time reckoned at 25 cents per day, would not

amount to enough to buy several good watches in the course of twelve months. Being a minute late for the train, we fail to keep an important engagement, or we are obliged to lay over for an hour—perhaps a day; or we are in one or more of a hundred different ways disconcerted and troubled.

There is scarcely an hour of the day when one or another member of a household,

“EUREKA” STEM WINDER, OPEN FACE \$8



factory or farm, does not suffer because some one is not prompt and methodical as to time. But how is one to be thus prompt and methodical without a reliable time-keeper?

**REVOLUTION IN PRICES.**—The invention and adaptation of machinery to the construction of watches has produced a revolution in prices during the past few years. Such a watch as we offer for \$8, used to command \$20. Our watches are supplied to us by Julian Gallet, who is one of the largest manufacturers in the world. His works are located in Switzerland, where labor and materials cost less than half what they do in this country. American manufacturers would have the public believe that the works in Swiss watches are not made by exact machinery, as are the “movements” of American goods; but such is not the fact. Watch making has been one of the chief industries of Switzerland for ages, and Swiss manufacturers are well provided with everything that has been devised in the way of desirable machinery. Swiss watches at wholesale range in prices all the way from \$1 up. As we offer nothing which is not fully warranted to give satisfaction, only such goods are supplied as will bear such a guarantee.

LADYS' STEM WINDER, \$10.



**EUREKA STEM WINDER.**—Our “Eureka” movement comes in two sizes, one for gents and the other for boys. It is a Stem Setter as well as a Stem Winder, and is warranted to be as good a time keeper as is usually sold by dealers for \$10. The open faced cases are a composition of nickel, zinc and copper, which is termed white metal. It is not quite as bright as silver, but it is just as strong and durable. Our illustration shows the exact size of the Gent's “Eureka.” The Boy's watch is the same in every particular except that it is smaller. With fair usage, either watch will last a lifetime. Price \$8, by Registered mail, for either size.

**LADYS' WATCH.**—This is a Stem Winder and Stem Setter. It has the white metal, half-open-face case; the exact size of the illustration. It is a handsome, durable and reliable watch, and is warranted to give satisfaction in every particular. Price \$10, by Registered mail.

## RELIABLE WATCHES.

out a reliable timekeeper? Our **Gent's Watch** is a Stem Setter as well as a Stem Winder, and is warranted to be as good a timekeeper as is usually sold by dealers for \$10. The open face cases are a composition of nickel zinc and copper, which is termed white metal. It is not quite as bright as silver, but it is just as strong and durable. With fair usage it will last a lifetime. Price \$8, by Registered mail. Our **Lady's Watch** is a Stem Winder and Stem Setter. It has the white metal, half-open-face case. It is a handsome, durable and reliable watch, and is warranted to give satisfaction in every particular. Price \$10, by Registered mail.

There is scarcely an hour of the day when one or another member of a household, factory or farm, does not suffer because some one is not prompt and methodical as to time. But how is one to be thus prompt and methodical with-

## SPECIAL OFFER FOR 60 DAYS!

1st. We offer either the Gents' or Boys' watch as a present to any subscriber to SEED-TIME AND HARVEST who shall send us 16 new subscribers at 50 cents each. At this rate you can afford to make presents of SEED-TIME AND HARVEST to your friends and then get the watch at the usual price, or get as many subscribers as you can and make up the balance of the \$8 in cash and get the watch.

2nd. We will present the Ladies' watch to any one who will send 20 subscribers and \$10. The watches in all cases will be sent by registered mail packed to prevent injury.

address,

SEED-TIME AND HARVEST, La Plume, Pa.



# ORGANS.

A Magnificent Holiday, Birthday, or Wedding Present.

(6) Years.

If you are in need of a Cabinet Organ for your Parlor, Lodge, Church, or Sabbath School, order stating your reasons why. Let me hear from you any way, whether you buy or not. Please call your friends' attention to this advertisement. Every Twenty-seven Stop Organ sold sells others, because they are the best, and bring forth, at command of the performer, greatest amount, combinations, and variety of music equal to a Church Pipe Organ, costing from \$1,500 to \$3,000. BEATTY'S PATENT STOP ACTION, which is fully secured at the United States Patent Office. Grand effects are obtained, from a mere whisper to a grand burst of harmony. The instrument must be heard to be appreciated. Read the following brief description, and, if possible, send your order without delay. **27 STOPS AS FOLLOWS:**

1. **Double Octave Coupler.**—Doubles the power of the Organ. Couples all octaves.
2. **Powerful Box Sub-Bass.**—New and original. The thundering tones produced are without a parallel in Organ building.
3. **Vox Celeste.**—The sweet, pure, exalted tones produced are beyond description.
4. **Piccolo.**—Variety of music which makes the Piccolo the most difficult and expensive to build in the world.
5. **French Horn.**—A stop which imitates a full orchestra and brass band.
6. **Saxophone.**—The beautiful effect of this stop is "Beatty's favorite." It is very excellent and adds greatly to this wonderful Organ.
7. **Harp.**—Draws a full set of tuned Golden Reeds.
8. **Dulciana.**—A full set of Reeds used in ordinary organs is drawn by this stop.
9. **Vox Humana.**—Tremulant, which, by the aid of a FAN WHEEL, imitates the human voice.
10. **Vox Jubilante.**—This stop, when used in conjunction with the other stops, produces a most delightful melody.

Stops Nos. 3, 4, 5 and 6, peals forth most delightful music. 11—Aolian. 12—Clarinnet. 13—Cello. 14—Violina. 15—Clarabella. 16—Grand Forte. 17—Melodia. 18—Bourdon. 19—Viol di Gamba. 20—Viola Dolce. 21—Grand Expression. 22—Harp. 23—Echo. 24—Aerostatic Expression Indicator. 25—Orchestral Forte. 26—Grand Organ. 27—Expression. The last seventeen (17) Stops are operated in direct conjunction with above ten (10) bringing forth, at command of the performer, most charming music, with beautiful orchestral effect, from a mere whisper, as it were, to a grand burst of harmony. **NINE (9) SETS GOLDEN TONGUE REEDS,** as follows: 1st. Five (5) Octave Set of three Full Octaves; 4th. One (1) Full Octave Powerful Manual Boxed Sub-Bass Reeds; 5th. Two (2) Octaves; or one each of Piccolo and Saxophone Reeds combined; 6th. Set Soft Cello Reeds; 7th. Set Violina Reeds; 8th. Set Jubilante Reeds; 9th. Set Clarinet FIVE FULL OCTAVE. One Manual or keyboard, Handsome Walnut Case, Receptacle for Book and Sheet Music, Lamp Stands, Handles, Rollers, Treble Upright Bellows of Immense power, Steel Springs, &c. Right Knee Swell, also Left Grand Organ Knee Swell, by which the full power of this Organ may be obtained at pleasure, by use of the knee, without removing the hands from the keyboard.

**A SPECIAL OFFER.** I am determined to have this beautiful instrument introduced without a moment's delay. Hence the following special offer, providing order is given and remittance made within the limited time as specified in advertisement.

Hereby agrees under his own signature to box and deliver upon cars at Washington, New Jersey, with Bench, Book, and Music, one of his "MOZART" Organs upon receipt of this Notice, together with only \$57.00, providing order is given within five days from date of this newspaper, or, if you order within five days a further deduction of \$2 will be allowed, and ALL FREIGHTS WILL BE PREPAID, the regular price being \$115 without the Bench, Book, and Music. Money promptly refunded, with interest at 6 per cent., if not just as represented after 1 year's use.

Be very particular to give Name, Post Office, County, State, Freight Station, and on what Railroad. Be sure to remit by Bank Draft, L. O. Money Order, Registered Letter, or by Bank Check. You may accept by telegraph on last day and remit by mail on that day, which will secure this special offer. I desire this magnificent instrument introduced without delay, hence, this special price. **PROVIDING**







1883.

Seed-Time and Harvest,

NOVEMBER.



An Illustrated Monthly  
MAGAZINE,  
Devoted to Rural Affairs.

PUBLISHED BY  
Isaac F. Tillinghast, La Plume, Pa.

SUBSCRIPTION, FIFTY CENTS A YEAR.



# NOW FOR BUSINESS!

**A Premium for the Subscriber,  
A Premium for the Club Agent, and**

# \$500.00 in CASH

To the persons who send the greatest number of  
Subscribers before March 1st, 1884.

The great favor with which SEED-TIME AND HARVEST has already been received, has instilled in us the belief that if more widely known, its circulation might rapidly rise into the hundred thousands with the Metropolitan journals.

To induce every one of its present readers to show it to all of his neighbors, we have decided to offer the most liberal premiums and prizes ever yet combined on any American journal. And we have arranged these so that all who engage in the work must be well repaid for every hour's time spent in our behalf.

Our plan is briefly as follows: At the bottom of the third cover-page of this issue, will be found a Seed Certificate, which will be countersigned in the first copy sent to a new subscriber, thus giving each who pays 50 cents a premium worth 25 cents in cash. This ought surely to be inducement enough for any person who is at all interested in gardening, to subscribe if asked. The club getter may then keep 10 cents cash commission from each, remitting us 40 cents each, or, if preferred, send us the whole amount collected, 50 cents each, and take premiums from our list to the value of 25 cents for each name sent in, or one-half the whole amount sent us. This will give good pay to all who will work. Ten subscribers per day would be a very low estimate, but it will give the agent One Dollar in cash, or \$2.50 worth of his choice of our premiums, which are all well worth the price named for them.

Then as an additional stimulant, to induce all to make their lists as large as possible, we offer \$500 in cash to the persons who send the largest number of subscribers between this date and March 1st, 1884.

This money is offered in good faith and will positively be paid in exact accordance with the terms on which it is offered. It will be divided as follows:

|                                                                                                                                              |          |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------|
| To the person who shall send the largest list of yearly subscribers to SEED-TIME AND HARVEST before March 1st, 1884, will be paid cash ..... | \$200.00 |
| To the person sending the second largest list .....                                                                                          | 100.00   |
| To the person sending the third largest list.....                                                                                            | 75.00    |
| To the person sending the fourth largest list.....                                                                                           | 50.00    |
| To the person sending the fifth largest list.....                                                                                            | 25.00    |
| To the person sending the sixth largest list.....                                                                                            | 20.00    |
| To the person sending the seventh largest list .....                                                                                         | 15.00    |
| To the person sending the eighth largest list.....                                                                                           | 10.00    |
| To the person sending the ninth largest list.....                                                                                            | 5.00     |

In previous offers of this kind, we have been surprised at the small number required to take a cash prize. We firmly believe that any person, now out of employment, who will work faithfully at this business, during the specified time, will receive better pay than he would ask if engaged to work on salary.

**Continued to Third Cover Page.**



# SEED-TIME AND HARVEST.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE

FOR EVERY ONE WHO PLANTS A SEED OR TILLS A PLANT.

SUBSCRIPTIONS 50 CENTS PER YEAR.

—:0:—

ADVERTISING SPACE \$3.60 PER INCH.

VOL. 4.

NOVEMBER, 1883,

NO. XI.



THE EARLY CLUSTER BLACKBERRY. See page 8.



## SEED-TIME AND HARVEST.

### WEATHER TALK.

It ain't no use to grumble and complain;  
It's jest as cheap and easy to rejoice;  
When God sorts out the weather and sends rain,  
W'y rain's my choice.

Men gener'ly, to all intents—  
Although they're ap' to grumble some—  
Puts most their trust in Providence,  
And takes things as they come:—  
That is the commonality  
Of men that's lived as long as me,  
Has watched the world enough to learn  
They're not the boss of this concern.

With some of course it's different—  
I've seed young men who knowed it all,  
And didn't like the way things went  
On this terrestrial ball!  
But all the same, the rain some way  
Rained just as hard on picnic day;  
Or when they really wanted it,  
It maybe would not rain a bit!

In this existence, dry and wet  
Will overtake the best of men—  
Some little skift o' clouds'll shet  
The sun off now and then;  
But maybe, as you're wonderin' who  
You've fool-like lent' your umbrell' to,  
And want it—out'll pop the sun,  
And you'll be glad you ain't got none.

It aggervates the farmers, too—  
They's too much wet, or too much sun,  
Or work, or waitin' round to do  
Before the plowin's done;  
And maybe, like as not, the wheat,  
Just as it's lookin' hard to beat,  
Will ketch the storm—and jest about's  
The corn's a-jittin' out.

These here cy-clones a-foolin' round—  
And back'ard crops—and wind and rain—  
And yet the corn that's wallered down  
May elbow up again!  
They ain't no sense, as I can see,  
For mortals sich as you and me,  
A-faultin' Nature's wise intents  
And lockin' horns with Providence!

It ain't no use to grumble and complain;  
It's jest as cheap and easy to rejoice;  
When God sorts out the weather and sends rain,  
W'y, rain's my choice.

—Selected.

### HARVEY'S BRAVE DEED.

He was a little bit of a chap, only twelve years old, and so pinched, and stunted, and weakened, that you would have thought he could not have been more than eight. His eyes were large and brown, and wistful, like those of an intelligent dog, and it was the pathetic language of these same brown

eyes that aroused the compassion of an elderly, well-to-do farmer, one morning.

Mr. Adams (the farmer) stood on a corner waiting for a car, and above all the din and bustle of the crowd that hurried past, he heard a shrill, boyish voice calling,—

“‘Star!’ ‘Herald!’ ‘Sun!’ Dreadful murder in the sixth ward! Full account of the tragedy!”

“Hello, Starvey! Sold any yet?” broke in a second voice.

Mr. Adams turned sharply around, and decided that the first voice belonged to as miserable a specimen of rags and bones as it had ever been his fortune to see, and he waited rather anxiously for the answer, which soon followed in a patient, uncomplaining tone.

“Not yet, but the old woman down yonder gave me an apple from her stall, so I'm not so very hungry now.”

“Poor little chap!” said the second voice, with real sympathy; “times are hard on ye, that's a fact. Try that old fellow on the corner; country, I guess! Mebbe he'll take one.” Acting upon this advice, Number One approached and spoke up hopefully,—

“‘Star!’ ‘Herald!’ ‘Sun!’ Take one, sir?”

“Yes, let's have a ‘Herald,’” said the old gentleman, diving into his pocket for change. “What is your name, my boy?”

“Harvey, sir, but the boys and the folks in our alley most generally calls me Starvey.”

“Starvey! yes, yes,” said the old gentleman, with another rapid survey of the rags and bones. “Why doesn't your mother mend your clothes, and how does it happen that you are so thin? Have you been ill?”

“Sick, sir? Oh, no, I rather guess it's because I don't git enough to eat, and mother, she's dead!” This last in a hopeless tone, with a brush of his ragged sleeve across the brown eyes. “She died last winter, and there's no one to look after me now. Thanky, sir,” as he received the chango, which the old gentleman had all this time been holding in his hand.

“Here, don't go!” said the worthy individual, as the bundle of rags turned to leave. “How would you like to go home with me? I live where there is always enough to eat, and you could take care of



the horses, and weed, and help round generally. Come, what do you say?"

"Horses!" said the mite eagerly. "Oh! I love horses, sir! We used to live in the country when I was a little chap, and father, he owned a horse. I used to ride him, too! Go into the country? Golly! I guess so!"

"Well, well, give your papers to that boy, then; he has sold most of his. That's right! Come along, now; I can't take such a looking object home with me. Why, Maria wouldn't let us in!"

The mite was fitted with a decent suit of clothes, and finally arrived at the place where there was plenty to eat; as happy as a king, and ready to worship the kind old gentleman who had rescued him from his miserable street life.

He was called Harvey, now, and soon ceased to deserve his old appellation. He did willingly whatever was given him to do, but his chief delight was the sleek span of bays, "Kitty" and "Jess," who occupied comfortable quarters in the large barn. He watered, and fed, and groomed them untiringly, and when, sitting beside his new master in the new spring wagon, he was allowed to hold the reins, his cup of bliss was full.

But one day trouble appeared in the shape of a rough looking fellow who applied to Mr. Adams for work. It was in the busy season, and he was engaged without much attention to references. For a time all went well, but Mr. Adams soon discovered that his new hand had a trick of beating the horses, kicking the cows, and otherwise maltreating the animals about the place; and, being a humane man, he dismissed him with a lecture upon the wickedness and cruelty of his conduct.

Then the farm-hand became abusive, and swore with many oaths that he would have revenge. Mrs. Adams was alarmed, and begged her husband to have him arrested, but he only laughed at her fears, saying,—

"Oh, such talk never amounts to anything."

One lovely afternoon in autumn, Harvey had a half-holiday, and he wandered along through the woods, drinking in the beauty around him; the gorgeous tints of the

trees, the purple and gold of the wood flowers at his feet, and the dreamy blue of the sky that showed in patches overhead

Suddenly a sound of voices broke the stillness, and Harvey, peering through the bushes, saw the man who had worked for Mr. Adams, and another man, still more rough and evil-looking, lounging upon the ground with their guns beside them. They had built a fire, at which they were cooking some rabbits; and as Harvey looked, a dog bounded through the undergrowth and crouched down beside it.

The men were discussing a plan which made Harvey's heart beat so violent, as he listened, that he shivered with dread, lest they should hear it and discover his retreat,

They had decided to burn Mr. Adams' barn, in which was stored all the fruits of his long summer's work, and the ex-farm-hand added contemptuously,—

"Since he sets such a store by his horses and cows, it will be a mercy to send them where they will never be 'abused' any more. There's 'Brindle' and 'Daisy' and 'Rose,' besides the horses, that ought to keep Mr. Adams' family in roasted meat for some time to come."

The two wretches burst into a loud laugh at this sally, and at the same time the branch upon which Harvey was leaning, broke with a sharp crack. Even then he might have escaped, but the dog sprang up with a low growl, and a moment after the unfortunate lad was held a most unwilling prisoner.

Poor Harvey! as he looked up into the cruel, scowling faces of his captors, he felt that he could hope for very little mercy from men who could deliberately plan to roast alive unoffending, helpless animals. Indeed, the rougher of the two men advised that Harvey should be put out of the way at once.

"He's heard what we've had to say, and he'll blab. 'Dead men,' and young ones, too, 'tell no tales,'" he added, grimly, seeing that his companion hesitated.

"But we might swing for it," objected the farm-hand. "See, here, young one, we'll let you go scot free, on one condition. You hold up your hand and swear like I show you, not to breathe a word of what you've



heard, or by—! you'll not live long enough to say your prayers." He picked up his gun as he spoke, and held the muzzle against Harvey's breast.

Poor Harvey! A sickening feeling of fear and faintness seemed to stifle his breathing, and arrest his very heart beats. The cruel, determined faces of the men, seemed like demons, and he looked around the lonely woods, then at the gun, and then he took the awful oath, which the men bade him repeat, that he would not reveal anything they had said.

He was at last allowed to go, and the farm-hand called after him,—

"I say, young one, you can tell when the deed is done, and don't you forget it. I want the old man to know who his good luck comes from;" and he added to his companion, "No danger of his giving us away, he's got no more pluck than a chicken, and he's scar't most to death."

When Harvey reached home, supper was laid in the large kitchen, Mollie, the "help" was turning flannel cakes, Mrs. Adams was pouring the tea, and Mr. Adams turned from the sink where he had been washing his hands, and spoke with a genial smile,—

"Well, Harvey, my lad, did you have a good time? Had a nice walk, eh?"

"Yes sir,—no sir,—part of the time," stammered poor Harvey, with such a miserable face that the good farmer stared in astonishment, and Mrs. Adams noting his pale face and trembling limbs, exclaimed,—

"Bless the boy! he looks fit to drop! What is the matter, child?"

"Nothing," sobbed Harvey, and bursting into tears he rushed from them all, up to his own little room under the eaves.

Pretty soon Mrs. Adams bustled up with a bowl of hot tea and some nicely buttered toast, and when she found that he could not eat, she bathed his aching head, tucked him into bed, and even left a motherly kiss on his cheek.

That kiss made Harvey feel ten times more miserable than before. How kind they were to him! How could he let them be wronged out of so much property? Then the horses! ah! that was the bitterest of all? "Kitty" and "Jess," whom he had loved

and petted, and who also knew him and would whinney whenever he entered the barn. He had taught them to bow their heads when he gave them an apple or anything especially nice, and he was going to let them suffer a horrible death! Great beads of sweat started on his forehead, and he sprang from his bed intending to run down stairs and reveal the whole wicked plot, but he stopped before a picture of Christ blessing little children, which good Mrs. Adams had hung in his room. The moonlight fell broadly upon it. Had not Mrs. Adams said that God hated liars, and had he not solemnly sworn to keep silence?

Harvey never forgot the terrible hour that followed. He heard the family retire, and waited fearfully for any sound outside. At last he knelt and prayed earnestly that God should show him some way out of his trouble. Then he went to the window and looked out at the great barn.

Suddenly a thought flashed into his mind. He stole softly down stairs, seized the tin horn which Mrs. Adams used to call her husband to dinner, and letting himself out, ran swiftly across the moonlit space between the house and barn. He stopped a moment to think, and then climbed up over the mows and hid himself in a nook under the rafters.

One hour passed! two! Harvey's courage seemed to ooze out at his finger tips. If they came they would surely kill him, and then—Ah! what was that? A stealthy tread outside, and the great doors creaked softly as they were shoved apart, then a whisper which seemed to freeze Harvey's blood—

"Here, pour on plenty of ile, and—"

Toot! toot! toooot!

"It's that devil's brat!" exclaimed one of the men with a furious oath. "Help me to find him quick, or we shall have the neighbors on us."

Toot! toooot! toot! toot! went the old horn. Bow! wow! wow! came from the dog in his kennel, and the chickens on their roosts near by, set up a tremendous cackle.

Tooooot! toooot! toot! The two ruffians seeing that their game was up, rushed for the door, but Mr. Adams and a crowd of



neighbors, who, half-dressed, had rushed out to discover the cause of the commotion.

Well, "Kitty" and "Jess" were saved, the men were sent to prison, and to-day Harvey writes his name, Harvey Adams, with a flourish, and calls the farmer and his wife, father and mother. He goes to school, and his teacher assures his proud parents that he is a fine scholar, and will be sure to make his mark one of these days.—*Sara Deane, in Tribune and Farmer.*

### The Sailor and his Flower.

Mr. Shepherd, the conservator of the Botanical Gardens at Liverpool, gives the following account of the introduction of that elegant flowering shrub, the fuchsia, into English green houses and parlor windows:

Old Mr. Lee, a nurseryman and gardener, near London, well known fifty or sixty years ago, was one day showing his variegated treasures to a friend, who suddenly turned to him and declared:

"Well, you have not in your collection a prettier flower than I saw this morning at Wapping."

"No? And, pray, what is this Phoenix like?"

"Why, the plant was elegant, and the flowers hung in rows, like tassels, from the pendant branches; their color the richest crimson, and in the center a fold of deep purple."

Particular directions being demanded and given, Mr. Lee posted off to Wapping, where he at once perceived that the plant was new in that part of the world. He saw and admired. Entering the house, said:

"My good woman, this is a nice plant. I should like to buy it."

"I could not sell it for no money, for it was brought me from the West Indies by my husband, who has now left again, and I must keep it for his sake."

"But I must have it."

"No, sir."

"Here,"—emptying his pocket—"here are gold, silver and copper."

(This stock was something more than eight guineas.)

"Well-a-day? but this is a power of money, sure and sure."

"'Tis yours, and the plant is mine, and, my good dame, you shall have one of the first young ones I rear to keep for your husband's sake."

"Alack—alack!"

"You shall, I say."

A coach was called, in which was safely deposited our florist and his seemingly dear purchase. His first work was to pull off and utterly destroy every vestige of blossom and bud. The plant was divided into cuttings, which were forced in bark-beds and hot-beds, and were afterward re-divided and subdivided. Every effort was used to multiply the plant. By the commencement of the next flowering season, Mr. Lee was the delighted possessor of three hundred fuchsia plants, all giving promise of blossom. The two which opened first were removed into his show-house. A lady came.

"Why Mr. Lee—my dear Mr. Lee—where did you get this charming flower?"

"Hem! 'Tis a new thing, my lady—pretty, is it not?"

"Pretty? 'Tis beautiful! Its price?"

"A guinea.. Thank your ladyship!"

And one of the two plants stood proudly in her ladyship's boudoir.

"My dear Charlotte, where did you get?"—etc., etc.

"O, 'tis a new thing! I saw it at old Lee's. Pretty, is it not?"

"Pretty? 'Tis beautiful? Its price?"

"A guinea. There was another left."

The visitor's horse smoked off to the suburb. A third flowering plant stood on the spot whence the first had been taken. The second guinea was paid, and the second chosen fuchsia adorned the drawing-room of her second lady-ship. The scene was repeated, as new-comers saw and were attracted by the beauty of the plant.

New chariots flew to the gates of old Lee's nursery-ground. Two fuchsias—young, graceful, and bursting into healthy flower—were constantly seen on the same spot in his repository. He neglected not to gladden the faithful sailor's wife by the promised gift. But ere the flowering season closed, three hundred golden guineas chinked in his purse—the produce of the single shrub of the woman of Wapping; the reward of the taste, decision, skill and perseverance of old Mr. Lee.—*Practical Farmer.*



**THREE LANDS.**

THREE countries I can see to-day,  
 Three countries fair, and far,  
 I can not, for I dare not, say  
 The half of what they are.

Serene and calm, against the east,  
 The land of Has Been lies;  
 There, storms forever more have ceased,  
 And cloudless are the skies.

From off its quiet hills are blown  
 Remembrances so sweet,  
 I seem to cross the narrow zone,  
 Where past and present meet.

The fairer land of Yet May Be,  
 From over in the west,  
 Is even now inviting me  
 To earnest, endless quest.

For, flowers whose names I do not know,  
 Light up each shaded dell,  
 And rivers, whence, I see not, flow—  
 Whither I can not tell.

Its glow of gold and amethyst  
 But dimly shining through  
 A veil of thickly rising mist,  
 Another land I view.

But vainly for a beckoning hand  
 I look across the stream,  
 That shuts me out from this bright land,  
 This country of my dream.

A bridge once spanned the stream, but now  
 There is no way to cross;  
 The very winds that fan my brow  
 But mock my bitter loss.

No other land is fair as this!  
 No other land!—and yet,  
 In sight of all its wealth of bliss,  
 I stand in mute regret.

In sight of all the perfect years  
 I never stepped within,  
 And view, with grief too deep for tears,  
 The land of Might Have Been.

—*Jessie H. Brown, in Good Cheer.*

**HUMAN FAILINGS.****Brother Gardner's Theory About the Weak Spots in Men.**

"De odder day," began the old man, with a half-ashamed expression of countenance, "when one of de members of dis club dis-kivered me dyein' my ha'r wid a leetle lamp-black and sweet ile, he dispressed de greatest astonishment dat a pusson o' my y'ars would be so vain. Gem'lem, when you find a man widout a single weak spot in his character, you have foun' a man too good for dis weary world.

"When you find a drunkard you find a man wid a weakness. He may be honest and truthful, but when you offer him whiskey you peel de patch off his weak spot. If infloence am brought to b'ar to reform dat man, watch him. He am jist as sartin to break out in some odder spot, as de sun am to rise an' sot. He will run to hoss races or poker rooms, or he will dress to kill, or run arter women, or develop suthin' to prove dat he can't keep a tight rein on his hull character at once.

"Reform a gambler an' what do you make of him. Passion fur play am a weakness. Shake it off an' de weakness breaks out in some odder spot. I have known a sober, temperate gambler to reform dat habit and become a drunkard.

"When you find a man wid a weakness fur horses let him alone. Take his hoss away an' he will replace it wid sunthin' mo' disagreeable.

"I look upon lyin' as a weak hoop on de human bar'l. Few men like to lie, but dey lie bekase dey want to cotch de mous' fish, or see de biggest bar, or cum de nighest to bein' killed. Lyin' may be called an ambitious weakness. Smith lies to get eben with Jones, and Jones to get eben wid Brown, an' so it goes. Reform a liar and some oder hoop has got to bust.

"Gem'lem, when de Lord an' de church refuse to recognize perfeckshun in a man, why do we expeck an' demand it? Half a millyun clergymen in this kentry am tellin' us from de pulpit each Sabbath day dat man am weak an' full o' tricks, and yet when a pusson beats us out o' half a dollar we riz up an' yell as if it was a strange thing. I doan' drink nor gamble nor lie nor steal, but I'ze got a weakness. I'ze a bit vain. I imagine dat I look purtier wid my hair greased up an' de true color disguised.

"In windin' up de eulogy let me simply warn you agin' expecting to fine any man or woman so good an' nice an' perfeck dat a flaw can't be foun' in de structure. Give 'em due credit fur all good traits, an' stan' prepar'd to dodge when de bad ones comes to de surface. Let us now march on to attack de reg'lar progrommy,"—*Detroit Free Press.*



### Botanical Names.

Although botanical names are often difficult to pronounce and remember, it is nevertheless very necessary to have some familiarity with them if one wishes to grow plants for ornament. Popular descriptions of plants should contain the scientific names as well as the common names, although they may be put in parentheses. They are necessary in ordering plants of nurserymen or in looking them up in any work on floriculture or landscape gardening.

Scientific names consist of two parts—the generic name, common to a whole genus or class of objects, and the specific name, designating the particular one of the genus. *Tilia* is a generic name, designating all basswoods or lindens. *Americana*, from the European, *Tilia Europea*, or from the southern, *T. heterophylla*. The generic name is always placed first. Often a species varies naturally into one or more peculiar forms, or, as they are scientifically termed, *varieties*. This word variety is usually abbreviated into *var.* Thus the pubescent variety of the basswood becomes *Tilia Americana* var. *pubescens*. If the variety is made by cultivation it is called a horticultural variety. Horticultural varieties are often named after the man who originated them. Thus a beautiful variety of the Chinese pink is known as *Dianthus Chinensis* var. *Heddewigii*. The variety names *rosea*, *alba*, *rubra*, *pumila*, *multiflora*, *flore pleno*, etc., are often used to designate horticultural varieties which are *rose-colored*, *white*, *red*, *dwarf*, *many-flowered*, etc.

### Rye for Pasture.

Here is a new idea to us, and we are inclined to believe that there is something in it. A correspondent of the *Country Gentleman* proclaims rye the great pasture grass. He says: Rye can be grazed for years all the season as a permanent pasture grass. In a two or three days visit near Adrian, Mich., the fact came to my knowledge that rye had, in that country, been regularly grazed as a pasture grass for three years in succession, affording good pasture

to the end of that period. Rye is a very hardy, deep rooting and vigorous grass, and grows freely and vigorously on almost any soil, even when it is very difficult to grow the finer ordinary pasture grasses in dry seasons; and since it takes several years to establish a good compact grazing soil with the best grasses, why is it not preferable to plant the hardy rye, which can be grazed for five or six seasons as readily as for two or three, when it is not allowed to become an annual by forming seed heads? Rye gives early spring feed and late fall grazing, if the land be in a moderately good condition. For ewes and lambs no grass will supply earlier feed.

### Early Lettuce.

A correspondent of *Vick's Magazine* says: There are very few people not fond of lettuce in the early Spring. Having removed from the city where early lettuce could be bought at the markets, I was much at a loss for this refreshing salad plant—at least, until quite warm weather. Knowing it to be quite hardy, I last Autumn sowed some seed in a warm, dry spot and in a week or two the plants were up. Before hard frost I placed around my little patch some boards—to be particular, an old door frame—and over this some loose boards, covering about two-thirds of the space, so that there was about one-third uncovered for light and air. It was where it got the best of the sun, sloping southeast, and it was a surprise to find how early I had young lettuce from this rude bed. Of course, this will be no benefit to those who have hot-beds and other conveniences for forcing vegetables, but to very many of your readers I think the knowledge may be useful.

### LINES.

TO A NEWLY MARRIED JOURNALIST.

Here's something new! Can it be true  
That you are married now?  
What made you do't? May you ne'er rue't  
Your matrimonial vow.

No more can you smile on dear Sue,  
And spark sweet Mary Ann;  
"Kisses for two," now will not do,  
For you're a married man.

You have won one—your race is run,  
You've got a better half;  
In this new deal, no doubt you feel  
Like a big  $\$$ .

—A MUSE.



### To County Fair Managers.

One of the most live, crisp and racy papers from the south, the *Spirit of the Age*, published at Raleigh, N. C., takes the managers of their county fair severely to task because of the marked partiality shown in proffering premiums to exhibitors at said fairs. It says, and truly, that these fairs profess to be friends of all classes of business pursuits followed by the people of the state, and to encourage these different pursuits without exception these premiums are offered for the best specimens presented at these annual exhibitions. And yet, right in the face of all this, the *Spirit of the Age* charges upon the managers the entire omission of one business that "stands higher, is more popular, has more safeguards thrown around it by law, and is more potent in politics than any other of which the state boasts, and yet upon which no premium, not even a diploma, is offered." Of course this business is the rum traffic—the business of the grog seller. It denounces this omission as outrageous and then suggests the following partial and yet very pertinent list of premiums to be offered hereafter. We commend this list to our county fair managers everywhere for their careful study and future guidance as we know they have in this respect been as derelict as our friends of the "Piney Woods" state. Here is the list:

|                                                                                            |            |
|--------------------------------------------------------------------------------------------|------------|
| To the grog seller who sells the most whiskey and makes the most homes miserable..         | \$100 00   |
| To the grog seller who ruins the most young men.....                                       | 75 00      |
| To the grog seller who can most successfully evade the law and keep open on Sunday.....    | Gold Medal |
| To the grog seller who can hinder the most men from work.....                              | 25 00      |
| To the grog seller who can sell the most drinks out of a quart of whiskey adulterated..... | 10 00      |

We hope hereafter this enormous business which employs so many persons, consumes so much capital, and which is prosecuted solely for the public good(?) and protected by law will show a record of its doings by presenting samples of its work for the inspection of the public. We would be willing to guarantee a premium of \$500 immediately after said exhibition to the temperance cause exclusive of the gold

medal and an equal amount to the exhibitor or rumseller who will present one specimen each of the worst ruined homes, the most debauched man, the most broken hearted woman, the worst orphaned child, or whiskey-inspired murderer. And to help them at once in this line so as they can appear at our approaching fairs this fall we will allow them to present specimens now on hand (of which they have many) instead of waiting to manufacture new ones.—*Critic, in Temperance Gazette.*

—Are you going to try for that \$200 prize?

### The Early Cluster Blackberry.

OUR frontispiece this month represents, in a striking manner, a cluster of a new Blackberry called the Early Cluster, now being disseminated by Mr. John S. Collins, of Moorestown, N. J. That the cut is a true representation of the berry we have the word of the Engraver, Mr. Blanc, who says: "I made this cut for Mr. J. S. Collins, size of berries true to nature, from those he brought to me. Some of the berries were used for dinner, and we all pronounced them the best blackberries we ever tasted."—The introducer claims for it earliness, productiveness, and excellent quality. Thirteen quarts have been picked from one hill of the Early Cluster. The advertisement of Mr. Collins frequently appears in this magazine, and those who desire to know more about this remarkable berry are recommended to write to him for a Catalogue, not forgetting to mention SEED-TIME AND HARVEST.

—ALL COMPETITORS are sure of good pay and a small club may take a good cash prize. See second cover page.

"WHY, pa," said little Tooser to Senior Alley, the other day, "here comes Mr. Jones into the house, and it has only just begun to sprinkle. Isn't it funny?" "Why so?" asked Mr. Jones, who had overheard. "Why," said Tooser, looking up with a rapt countenance, "papa said yesterday that you didn't know enough to come in when it rained. Pa got left, didn't he?"

Look at Reed's advertisement of Concord Grapes on page 25. Every reader of SEED-TIME AND HARVEST should send a trial order for a dozen. You are sure to be pleased. Satisfaction guaranteed.



## FLOWER GARDEN NOTES.

BY W. F. MASSEY.

We have had a new sensation in Asters.—For many years the improved forms of China Asters have been a favorite flower, and we grew them on the Eastern Shore to much greater perfection than we had ever seen them here; that terrible pest, the black bug, was never seen there. The only way I have been able to get any Aster flowers here is to sow the seed very early, so as to have them come in bloom by August 1st; they will then be through their best bloom by the time the bugs come. I recollected growing, when a boy, the old single China Asters, from which all the present gorgeous varieties sprung and the present fashion for single composite flowers led me to think of the old single Asters, and knowing them to stand so long after cutting, I determined to get some seed if possible. For many years I have been buying the choicest seed to be had, with the usual result of getting an average of about a half dozen plants from a twenty-five cent paper of seed. This year we searched the catalogues for the old China Aster seed. The nearest approach we could find was "Asters, common mixed, 5 cents per packet." So we ordered the common mixed at five cents, and at the same time sent for some choice Dwarf Chrysanthemum flowered at 25 cents a paper. The five-cent papers were large, full ones; the twenty-five cent paper had as usual about 25 seeds. The cheap seeds produced an average of about 100 plants per packet; the choice package produced just four plants. Now for the result. The four plants of the Dwarf Chrysanthemum variety are just what I bought them for, and are very fine, but the cheap seed, from which I only expected single flowers, have been a perfect surprise. Of course there are some single ones, and good ones too, but out of one of these five-cent papers I have magnificent flowers of the Chrysanthemum flowered, Peony flowered, Betteridge's Quilled, tall sorts, dwarf sorts, and all sorts and colors, truly the most completely mixed seed I ever saw. Hereafter I shall always have plenty of Asters for cut flower purposes without investing in the named sorts. The only difficulty is in the great variety of heights, which makes a bed of these plants look rough. I would not object to paying 25 cents a paper for the fine named sorts if the seed would germinate with any sort of certainty, but usually the higher the price the fewer plants one gets. I have several times bought Betteridge's Prize Asters

in England at two shillings six pence a paper and paid postage on them to this country, only to get two or three plants out of a paper; while I got out of one of these 5 cent papers more Betteridge Asters than I ever had out of an imported packet. I have written so fully of these seeds because, in most sorts of annuals, it is usually much best to buy the best to be had, even at a high price, but a careful person with some of these cheap Asters can soon select for himself choice separate varieties, without the expense and exasperation of failure with the more costly named sorts. For uniform bedding purposes, of course it is desirable to have them of one height, and this can soon be attained by carefully saving the seeds separately.—[American Farmer.

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 RULES FOR WINTER.
 

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The following sensible rules are found in Farm and Fireside. They are worthy of practice:

Never lean with the back upon anything that is cold. Never begin a journey until the breakfast has been eaten. Never take warm drinks and then immediately go out in the cold air. Keep the back—especially between the shoulder blades—well covered; also the chest well protected. In sleeping in a cold room, establish the habit of breathing through the nose, and never with the mouth open. Never go to bed with cold or damp feet; always toast them by a fire ten or fifteen minutes before going to bed. Never omit regular bathing, for unless the skin is in active condition, the cold will close the pores, and favor congestion or other diseases. After exercise of any kind never ride in an open carriage or near the window of a car for a moment; it is dangerous to health and even to life. When hoarse, speak as little as possible until it is recovered from, else the voice may be permanently lost, or difficulties of the throat be produced. Merely warm the back by a fire, and never continue keeping the back exposed to heat after it has become comfortably warm. To do otherwise is debilitating. When going from a warm atmosphere into a colder one, keep the mouth closed so that the air may be warmed by its passage through the nose, ere it reaches the lungs. Never stand still in cold weather, especially after having taken a slight degree of exercise; and always avoid standing on ice or snow, or where the person is exposed to a cold wind.

—Forest and Stream says: "There is no authenticated instance on record of a hoop snake having been seen by any competent observer. The whole story is a myth, a figment of the imagination. The hoop snake does not exist."



### ONIONS A MONEY CROP.

CONNECTICUT farmers who live in the more unfavored portions of the State are obliged to practice mixed farming and resort to all means for obtaining the money necessary to meet ordinary farm expenses, taxes, etc. However much farming may be lauded, it must be understood that all do not recline on beds of flowery ease, for many are subject to toil and fatigue. Tolland County is largely made up of the class who diligently toil on from year to year, many saving up a little "against a rainy day." While potatoes are grown to a considerable extent, the surplus being sold, there are many towns, of which Columbia is one, that place considerable dependence upon the onion crop as a sure source of revenue to the farm.

To those who seldom or never engage in onion culture, it presents a sort of terror on account of the belief that a great amount of labor is required; but in those who year after year have been accustomed to tend a patch of onions, no such feeling exists; for if such an opinion was true there could not be found, as is the case now, many instances in which the culture has been continuous for a period of 25 years, and in some cases for a longer period. The success of onion culture depends wholly upon the attention bestowed, and it will be found eminently true that "a stitch in time saves nine." A good degree of fertility of soil is a necessity, and a liberal yearly application of any thoroughly decomposed manure is equally so. The preparation of the soil is also important; it should be thoroughly pulverized and free from all that would interfere with the culture, which becomes easier in proportion to the extent of this attention.

It is a difficult matter to exactly estimate the cost per bushel of growing onions, because much depends upon the character of the season, since the amount of care required to prevent the growth of weeds may be very much increased or diminished according to the atmospheric conditions.

From a record bearing upon this point in which every hour's labor is recorded at its full value, and in which the value of ma-

nure expended, rent of land, etc., are all counted in, the cost of growing onions varied from 20 to 42½ cents per bushel. In one instance the cost was 29 cents; in another 30 cents; in another 36 cents, and in another 42½ cents per bushel. This leaves a very agreeable margin even when onions sell for a fair price; for it must be remembered that the labor has all been paid for at high prices. The year in which the cost of growing was 29 cents per bushel, the price varied from \$1.50 to \$2.00 per bushel, probably averaging \$1.75 which would leave \$1.36 net per bushel for the entire crop, or at the rate of \$860 per acre. But that was an unusually favorable year both in yield and price, and a similar year can hardly be looked for. But take even the most expensive culture—42½ cents per bushel—and the average price per bushel for the past few years, which has not varied much from one dollar, and there would still be a net profit of about 38 cents per bushel, which, allowing for the very moderate yield of 500 bushels per acre, would give a net income of \$190 per acre.

Wethersfield has always been noted for onion growing, and has probably more acres under cultivation than most other towns; but of late it has done a large business in growing onion seed and is now abandoning the growing of the bulbs. The shore towns between New Haven and New York are at present quite extensively engaged in onion culture and realize large profits from their land in consequence.—*W. H. Yeomans, in Rural New-Yorker.*

### The Difference.

Oh, the sun will never tan you  
 If your face is covered well;  
 And it seldom rains upon you  
 If you have an umbrella.  
 And a friend will not forsake you  
 If you prosper day by day;  
 And a mule will never kick you  
 If you always keep away.  
 But—and this is where the hitch is,  
 For you've noticed it is so—  
 Your proboscis always itches  
 If your hands are in the dough.

—If you don't get the \$200 prize you may get \$100.



### Improve the Kitchen.

The question is, what shall be done to the kitchen to make it bright and attractive, and the suggestions given are intended partially for country kitchens, which seem to be very often the thoroughfare, if not the resting-place for the family. Vines, of course, would be in the way in the summer, and at that time they are not needed so much, as the kitchen doors are frequently draped with honey-suckles or morning-glories on the outside, as well as the kitchen windows. But in the winter, when it is cold and cheerless, on the outside, and the graceful vines have turned into brown, dead-looking stalks, try to have something green and fresh in the kitchen. Train a vine, if only a sweet-potato vine, on one of the windows, and besides, having saved all empty cans from canned fruit and vegetables, paint a couple of them red; have two holes bored in each near the top, through which to run the strings, by which they are to be suspended over the window. In one plant "Wandering Jew," or a *Tradescantia*, so easy to grow from slips, and which will soon run on the sides, making it a thing of beauty; and in the other, which must be nearly full of water, lay an old sponge or piece of white cotton, over which sprinkle flax seeds thickly, keeping the cotton moist where they are sown. In two or three weeks these will sprout, and the cotton will be covered with a beautiful green mossy looking growth.

Save the old kitchen chairs; cut off the broken backs close to the seats, also the lower part of the legs, to make them a convenient or comfortable height. Then make a bag the size of the seat, of some old ticking or other material, and stuff it with fine shavings or slivered husks, and after nailing it securely on the seats, cover with bright cretonne or chintz, the former can be bought for twenty or twenty-five cents a yard, and would be forwarded from a city store on sending the order, and giving an idea of the ground color wanted. Two or three palm leaf fans painted a bright red would decorate the wall very prettily. If the edges are worn, they can be bound with some material of the same color.

The lower part of the dresser would look well, if, instead of being covered with the usual pieces of scalloped newspapers, it were covered with a strip of crash toweling, the ends fringed, and hanging down about a quarter of a yard or so, and the center ornamented with a large letter in red cotton or worsted embroidery.

### The Beautiful Flowers.

The veteran horticulturist Mr. J. J. Thomas, while of a decidedly practical turn of mind, has at the same time almost a woman's fondness for flowers, and he is credited in the *Michigan Pomological Report* with these noteworthy remarks which do him honor:

"I am a very plain man, and perhaps most of you would not think from a gaze at my exterior that I am a passionate lover of flowers. But there is nothing in which I take greater delight, and from long experience in farm life I can say that, although I have given a great many hours to the cultivation of flowers, the time thus spent has been by no means lost. I am no pocrer for my flower garden. I am richer in all that makes my life worth living. And when any man excuses himself for assisting his wife and children to arrange a flower garden because he has no time for such foolish things, I set him down as one who does not take broad ground in matters of real economy. I look upon economy as something that applies to more than a man's pocket-book. It looks to the health and happiness of his family, and it is my opinion that there is nothing connected with farm life that has more elements of true economy in it than the plan of spending time and thought among the flowers."

—ARE you going to try for that \$200 prize?

Never mind these over-dressed people. If there is vanity in the head, why hang out the sign, by all means.

HALF THE MONEY sent us on subscriptions will be applied to paying for any premium desired from our list on page 17.

Compliments are the coin that we pay a man to his face; sarcasm is what we pay him with behind his back.



## NOTES AND GLEANINGS.

THE LANDRETH WHEAT, which is becoming very popular, was selected in a field of Clawson, in Seneca Co., N. J., on account of its having whiter straw and chaff than Clawson. It is claimed that it has a harder berry and makes better flour than its parent.

THE WILD CARROT is about the worst weed to eradicate after once getting a foothold, that a farmer can have to contend with. As it is now frequently sown in Western timothy seed there is great danger that our country will soon be overrun with it. Great care should be taken that every plant be pulled and destroyed at once, as it spreads very rapidly.

THE CZAR of Russia gets \$8,250,000 per year, or \$25,000 per day. The Sultan of Turkey \$6,000,000, or \$18,000 a day. Francis Joseph of Austria receives \$4,000,000 a year, or \$10,000 a day. King William of Prussia is paid \$3,000,000 a year, and King Humbert of Italy \$2,200,000. The President of the French Republic gets \$150,000, and President Arthur \$50,000 a year.

IN STORING TURNIPS and other roots for winter if it is desired to keep them fresh and crisp till spring it is best to place them in pits in a dry part of the garden. If wanted during the winter they may be kept fresh in a common cellar by packing in a bin in alternate layers in sand which will exclude the air and retain sufficient moisture to keep them crisp.

"WHAT other business do you follow besides preaching?" was asked of an old colored man. "I speculate a little." "How speculate?" "Sells chickens." "Where do you get the chickens?" "My boys fetch 'em in." "Where do they get them?" "I doan know. I'se allers so busy wid my preachin' dat I ain't got time to ax. I was 'agwine ter inquire de udder day, but a 'vival come on an' tuck up all my time."

THE smallest bird of America is the humming-bird; and of Europe the golden-crested wren. The smallest quadruped in the world is the pigmy-mouse of Siberia. One of the most diminutive plants is the Arctic raspberry, which is so small that a six-ounce vial will hold the whole, branches, leaves and all. The smallest man in the world is the one who will borrow a newspaper when he can afford to pay for it.

IN REPLY TO AN INQUIRY as to which are the very earliest maturing grapes, Mr. John G. Burrow says: "For a location so liable to early frosts I would advise you to plant EARLY VICTOR, ripe August 15, and much better than

CHAMPION; also WYOMING RED, ripe here August 10, though not of first quality they are far ahead of no grapes, and the masses would call them good."

A BOTTLE of carbolic acid should be kept in every farm house, not merely as a disinfectant, but as a wash for wounds and sores. For any purpose it should be diluted with water. Its power to destroy fungus growths makes carbolic acid invaluable in pruning orchards of pear, plum, or peach, where blight or disease is suspected. The pruning shears should be frequently dipped in carbolic acid water.

THE REASON WHY. The Michigan Farmer truly and tersely says that if the farm don't pay, as many farmers assert, it is because i don't owe you anything. The soil is very prompt n liquidating all its just obligations, and throwing in a good round sum as usury. But it is very obstinate in yielding up its treasures to those who in justice to have no claim upon it. It has not much to give away in support of idleness, and in this it is justifiable.

THE MEETING of the American Pomological Society in Philadelphia last month, is reported to have been one of the most successful ever held, both in the matter of exhibits and attendance. The officers elected for the ensuing year were as follows: For President, Hon. Marshall P. Wilder, of Massachusetts; Secretary, Prof. W. J. Beal, of Michigan; Treasurer, B. G. Smith of Massachusetts. The attending delegates were loud in their praises of the success of the meeting.

ASHES, leached or unleached, make an excellent fertilizer for either meadow or pasture, if sown upon ground which is naturally dry. They are as valuable for the grain grower as the dairyman. Leached ashes by the load are worth about twice as much as barn-yard manure, and unleached, twenty-five cents a bushel. The immediate value of ashes is not equal to that of manure, but it continues much longer. Coal ashes are chiefly useful for their mechanical effect in loosening a compact soil.

FOR KEEPING APPLES the essential requisites may be summed up thus: Pick without bruising, store without heating, winter without frosting; use one or more thermometers; preserve an unchanged temperature; guard against air currents; give needed ventilation; remove ripe specimens before decaying; separate the fruit-room from all other apartments. With these precautions and care, such apples as Baldwin, Red Canada, Swaar, Fameuse and Northern



Spy may be kept fresh into June and July, as we have had an opportunity for testing.

THE MULBERRY is a profitable fruit and every farmer should plant one tree at least. They begin bearing very young, and continue for many years. Downing's Everbearing is probably the best variety for fruiting. The fruit ripens unevenly and the very ripe ones are easily jarred or shaken from the branches. They are very sweet and do not require sugar to make them palatable.

THERE IS A VAST DIFFERENCE in the flavor of eggs. Hens fed on clean, sound grain and kept on clean grass run, give much finer flavored eggs than those that have access to stable and manure heaps, and eat all kinds of filthy food. Hens feeding on oily species of fish and onions, flavor their eggs accordingly, the same as cows eating onions or cabbage, or drinking offensive water, impart a bad taste to milk and butter.

JERSEY COWS.—Efforts to check the "boom" in Jersey cattle are proper enough on the part of any persons who feel unhappy. Twenty-five years ago this class of stock had few admirers. They were so small and inferior that the eye accustomed to size and the judgment that based value upon weight alike condemned them. But against ridicule and obloquy they have steadily advanced in public favor, and will, doubtless, attain the front rank in butter-producing regions. Their great merit is getting to be so well known that they will not go down.—[The Husbandman.

WHEN a dealer wishes to add a knock-down argument to all he has said about the merits of the breed of fowls he has for sale, he urges that their flesh is of extra quality. Now there is no breed of fowls under the sun, the chickens of which, if well fed all their lives, will not be tender, juicy and toothsome if killed before they are too old. And there is no breed that will be plump, tender and fit for the table unless fed thus. Mind, we do not say that there is no difference at all in breeds, but we say that of the two things the breed and feeding, the latter is most important.

A POLICE-FORCE OF ANTS.—A queer way of employing ants is reported by an English gentleman who has been traveling through one of the provinces of China. It appears that in many parts of the province of Canton the orange trees are infested by worms, and to rid themselves of these pests the natives bring ants into the orangeries from the neighboring hills. The ants are trapped by holding the mouth of a lad-bladder to their nests. They are then placed

among the branches of the orange trees, where they form colonies, and bamboo rods are laid from tree to tree to enable the ants to move throughout the orangery.

WE FREQUENTLY SEE inquiries concerning the value of CRUDE PETROLEUM for painting or washing out-buildings, arbors, fence posts, wagon wheels, farm implements, &c. We have used it and believe it an excellent article to apply to any wood-work which is exposed much to the weather. In repainting a farm-house, where the old paint had fallen badly and the siding become much checked by the weather, we used a barrel of crude petroleum as a wash; applied with a white-wash brush ten days before repainting. It filled the wood with oil, rendering the surface hard and resinous, and the new paint applied afterward has adhered to the wood much more tenaciously than did the first coating upon the naked wood.

THE undecayed muck and vegetable matter in swamps and bogs will often remain in an untillable condition for two or three years. The vegetable matter does not rot. This is due to the presence of vegetable acids which delay decomposition. If the material be made alkaline it will decay speedily. The best substance for this purpose is quick-lime. Forty or fifty bushels to the acre, or even more, will reduce some bogs to arable soil in a short time. If straw is to be used for manure it is best adapted to the purpose by spreading the ground where the stack is to be built thickly with quick-lime. The stack will soon rot down. It might also be advisable to spread a very little lime over the straw at intervals, as the stack is built up.

TWO NOTABLE instances of successful "small farming" in the East, are mentioned by the Farm Journal. One is that of E. M. Denison, of Albany county, N. Y., who, upon a 45-acre farm, made last year a net profit of \$2,163.00. The other is that of Geo. L. Mitchell, a New Jersey truck farmer, whose profits from "a farm of less than 60 acres, a portion being timber," amounted to \$2,128.27. In each case, the labor was mainly preformed by the owner and two sons so that the amount mentioned as profits represents the wages received for their labor, and the interest on the farm investment. In the first case, allowing the father \$25 and the sons each \$20 per month for wages, leaves a net profit of nearly \$31 per acre, or over ten per cent. upon a valuation \$300 per acre. Mr. Mitchell, on his somewhat larger farm, receives about ten per cent. upon a valuation of \$225 per acre.



### The Falls of Niagara.

This great cataract which has for some time been regarded as the eighth wonder of the world is annually visited by thousands of people, and yet there are other thousands who know nothing of it except by name. This immense waterfall is on the Niagara river, which flows from Lake Erie to Lake Ontario, and which is only thirty-six miles in length and has a descent of 334 feet from the level of one lake to that of the other. The Falls are about 22 miles from Lake Erie, and the river at this point is very deep, as it has rapidly narrowed for the last two miles from two and a half miles to about 2500 feet, or rather less than half a mile, in width. It is here divided by an island of some twenty acres in extent, called Goat Island, and a bend in the river tends to cause most of the water to flow to the Canadian side, forming the famous *Horse-shoe Fall*, which is 600 yards in width and about 154 feet in height. The American Fall is 163 feet in height but only 220 yards wide. The water rushes over with such force that it is thrown fifty feet or more from the base of the cliff. One mile and a half below the Falls is the celebrated Suspension Bridge of the Great Western Railway, having a roadway beneath for wagons and foot passengers. This bridge is 800 feet long, 40 feet wide and 200 feet from the surface of the water, and from it one can get a very fine view of the Falls.

We have procured, at considerable expense, a cut giving a bird's-eye view of the various points of interest, but no engraving can do justice to this wonder of nature, and we desire all our readers who can afford it, to join some of the many excursions and view this mighty monument of the Creator's power.

### Silent Men.

Washington never made a speech. In the zenith of his fame he once attempted it, failed, and gave it up confused and abashed. In framing the Constitution of the United States, the labor was almost wholly per-

formed in a Committee of the Whole, of which George Washington was the chairman, but he made only two speeches during the convention, which were of a very few words each. The convention however, acknowledged the master spirit, and historians affirm that had it not been for his personal popularity, and the thirty words of his first speech, pronouncing it the best that could be united upon, the Constitution would have been rejected by the people. Thomas Jefferson never made a speech. He couldn't do it. Napoleon, whose executive ability is almost without parallel, said his greatest trouble was in finding men of deeds rather than of words.

### ADVICE TO BOYS.

BY W. B. DERRICK.

Grass grows where the soil is good,  
And you'll grow wise as you grow old;  
But be it fairly understood  
That you must dig, if you'd get gold.

Take off your gloves, roll up your sleeves,  
And wiggle waggle with the gang;  
Pitch in and work, for work achieves,  
Tumble, get up, AND DON'T USE SLANG!

### BEATTY'S GREAT ENTERPRISE.

AN ORGAN EVERY FIVE MINUTES.—We are reliably informed that Daniel F. Beatty, the enterprising organ builder of Washinton, New Jersey, is now finishing a completed instrument every five (5) minutes, and that there are 5,000 constantly in process of manufacture in his great works. Read his new advertisement in this issue carefully, and order an organ without delay if you desire to secure the lowest limited time price only \$49.75.

"A suicide died by his own hand" in Denver, Colorado, so we are told by a local paper. They mostly do so elsewhere, so far as our observation goes.

Have you seen Reed's advertisement on page 25? Look at it and order at once and you will not regret it. He will do just as he says he will. Send you 12 choice Concord vines for \$1.00. A good crop, second year. Order now.

"I am tired," sighed the wheel.—"Poor fellow!" exclaimed the axle.—"Don't make such a hub-bub," cried the vehicle, wagon his tongue.

When you have had Catarrh long enough, just send 10c. to Dr. R. C. SYKES, 181 Monroe St. Chicago, for his "True Theory of Catarrh."

—Did you EVER see a more liberal Prize Offer on so low a priced paper, as that on second cover page?





BIRD'S-EYE VIEW OF NIAGARA FALLS.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL. IV., NO. XI.

WHOLE NO., XXV.

LA PLUME, LACKAWANNA CO., PA., NOVEMBER, 1883

—WE WANT an agent in every neighborhood to collect subscriptions for this magazine. See our unprecedented offers on second cover page.

*And now the ladies, bless 'em!—*

*When gone out much we miss 'em—*

*Are from the beaches coming home in scores, scores,  
scores;*

*Where lately they've been stopping,*

*And now they'll go a-shopping,*

*And over-run the various dry-goods stores, stores,  
stores.*

—\$200 is worth working for. It don't grow on every bush.

**Granges** or other societies wishing a Splendid Organ may select any style from the catalogue of the Estey Organ Company, of Brattleboro, Vt., (no finer instruments are made) and apply one-half the money sent us for subscriptions toward the payment of it. Thus 360 names and \$180 sent us will secure 360 copies of SEED-TIME AND HARVEST for one year, give each 25 cents worth of seeds as premium, equaling \$90 in seeds, and pay for **Estey Organ, Style 2**, worth \$90, and would probably secure a \$200 cash prize, which would put into the treasury \$20 more than would have to be paid out. Isn't this worth looking into?

### TO ADVERTISERS.

WE WISH TO ANNOUNCE that the next (December) issue of SEED-TIME AND HARVEST will have a *sworn circulation* of **over 50,000 copies**. By this, we mean that *the number of copies actually printed and mailed will exceed that number*, and we will support this statement with our affidavit. And yet our charge for space for first class advertisements is but **\$3.60**

per inch for each insertion, with liberal discount on those running for several months. This explains why we so frequently receive such expressions as the following:

"SEED-TIME AND HARVEST is about the best advertising medium in the United States. If there is any other paper equal to it ——— is the one. Few papers bring many responses to a good square advertisement. I am hearing from yours by every mail. This is sent as a just acknowledgement on my part of value received."—W. H. THOMPSON, Publisher, Philadelphia, Pa., Oct. 28, 1883.

"I was well pleased with my advertisement in SEED-TIME AND HARVEST. I received more inquiries from it than from any of the Bee Journals, and your bill was less than in other journals."—HOWARD NICHOLAS, Etters, Pa., Oct. 25, 1883.

"I consider SEED-TIME AND HARVEST one of the best advertising mediums for Poultrymen. A three line advertisement of "Eggs for Hatching" brought me nearly as many orders as a much larger advertisement in the leading Poultry Magazines."—GEO. F. MILLER, Justus, Pa., Oct. 25, 1883.

"In my advertising I calculatè to know about how much each paper pays me, and about how much each paper gets into me—for some do it. I find SEED-TIME AND HARVEST on my *paying list*, and I shall use it again when my time comes. I like the class of its readers and believe it to be a good medium for Poultry Advertising."—G. M. T. JOHNSON, Binghamton, N. Y., Oct. 27, 1883.

Many more such letters might be given, but we simply started to say that all copy for advertising for December number must be in hand by the **20th inst.** If you have not already done so, please send us a trial order (no matter how small) and see if it does not pay you as it certainly has others.

—GET A FEW of your friends to help you and you can easily secure one of our cash prizes. See our Great Offer on second cover page.

**Now, my friend**, would you feel just right to read the announcement in our April number that Tom Jones received the capital prize of \$200, for a club of forty or fifty subscribers, when you had made no effort to get any? We believe that the largest single club ever yet received by us consisted of but forty-five names. You can do better than that, can't you? And you will go to work and do it and thus show your appreciation of our labors, won't you? Yes, we knew you would or we would not have made such an offer, for we were anxious that you should have it, and you shall if you will do your part.



## OUR PREMIUMS TO CLUB-GETTERS.

NONE of our readers will fail to notice the unprecedented offers which are fully explained on the inside cover pages of this magazine. Although we shall endeavor to make SEED-TIME AND HARVEST well worth Fifty cents alone, we give each subscriber who pays that sum a seed premium worth one-half the money paid. This is so liberal that it may be hard to believe that we then give the club-getter a premium worth one-half the money sent again! But such is the fact. All who send us clubs are at liberty to select from the following list of premiums any article desired to the amount of one-half the money sent us for subscriptions at fifty cents each. Understand, club agents will be allowed to take a cash commission of 10 cents each (when at least two names are sent) *or*, remit the full amount of 50 cents each and apply 25 cents for each name sent to the purchase of any of these premiums. They cannot take *both* a cash commission and a premium. The \$500 cash prizes are above and independent of all premiums and commissions. The persons who send the largest lists by March 1st, regardless of terms of subscription or premiums received, get the cash prizes. So all will get well paid, and those who exert themselves most will receive the greatest reward.

The premiums are as follows:

1. One Grand Square Piano, manufactured by Horace Waters & Co., New York, Style 53, Catalogue price \$725. The finest instrument made..... \$725.
2. One Horace Waters & Co's., Popular Home Organ, Style 82., a superb instrument. Catalogue price at Factory ... \$210
3. One Estey Organ, Brattleboro, Vt., Style 2, (see catalogue) Price..... \$90
4. One Royal St. John Sewing Machine, No. 6, richly veneered, and machine silver plated; has six drawers, drop leaf and cover. An elegant machine. Factory price \$75
5. One Wheeler & Wilson Improved Sewing Machine, latest style, price.... \$50
6. One Silver Hunting Case Watch, \$20
7. One Elegant Quarto Family Bible, latest improved edition. Publishers cash price..... \$12

8. One Ladies' Premium Watch, stem winder and stem setter; half open face, a durable time-keeper, price ..... \$10
9. Gents Premium Watch, stem winding and stem setting, open face, white metal case and Swiss movement. As good for practical use as a \$25 watch, price.. \$8.00
10. Six Best Silver Plated Tablespoons, price.... \$7.00
11. Six Best Silver Plated Teaspoons, price..... \$3.00
12. "In a Nutshell," the latest work of Dr. Dio Lewis, price.... \$1.00
13. New American Dictionary... \$1.00
14. Premium Pocket Magnifier.... .75
15. "Farm and Garden", a Philadelphia monthly, very cheap at..... .50
16. "Tillinghast's Manual" a 100-paged work on Gardening, by the editor of SEED-TIME AND HARVEST, price reduced to.. .25

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THE GOLDEN RULE is a weekly non-sectarian, religious family paper, published in Boston, at two dollars a year, and is rated one of the best of its class.

No paper in the country can excel the *Golden Rule* in attractiveness and intrinsic value. It is the favorite family paper wherever introduced.

It has something for every member of the family and is always pure, bright, helpful, entertaining, and pre-eminently readable.

By special arrangement with the publishers we are enabled to offer the *Golden Rule* and SEED-TIME AND HARVEST for only One Dollar, or if you are already a subscriber to SEED-TIME AND HARVEST you may have the *Golden Rule* for only 65 cents. Orders may be sent either to the "*Golden Rule*," 25 Congress St., Boston, Mass., or to this office. Sample copies free. We endorse and recommend the *Golden Rule* in every particular.

—◆—

WE DESIRE to call the attention of our readers, especially those who desire to purchase plants, machinery, &c., to our advertising columns where they will find the cards of many first-class firms whom it is a pleasure to recommend for fair dealing. Should you want anything in their line write to them before ordering elsewhere, and in so doing, it may be an advantage to all concerned if you will say you saw their advertisement in SEED-TIME AND HARVEST.

—Every subscriber gets a premium under our prize offers, and the prizes are a FREE GIFT.



## OUR CLUBBING LIST.

We will send any of the following publications for one full year, by mail, postpaid, at the very low prices annexed, *if ordered by a subscriber to SEED-TIME AND HARVEST.*

If you are not a subscriber and wish to take advantage of these low prices, send an extra half dollar along for a year's subscription to SEED-TIME AND HARVEST, (or a dollar for a club of four.) This will entitle you to as many of the following as you wish at the low prices given.

|                                    |        |
|------------------------------------|--------|
| American Agriculturist.....        | \$1.10 |
| American Rural Home.....           | 1.00   |
| Country Gentleman.....             | 2.25   |
| Demorest's Magazine.....           | 1.75   |
| Farm and Garden.....               | .35    |
| Farm Journal.....                  | .35    |
| Farm and Fireside.....             | .50    |
| Fruit Recorder.....                | .75    |
| Floral Cabinet.....                | 1.00   |
| Gardener's Monthly.....            | 1.75   |
| Green's Fruit Grower.....          | .40    |
| Household.....                     | .90    |
| Harper's Magazine.....             | 3.50   |
| New York Tribune, Weekly.....      | 1.25   |
| New York Tribune, Semi Weekly..... | 2.20   |
| Poultry Monthly.....               | 1.01   |
| Poultry World.....                 | 1.00   |
| Practical Farmer.....              | 2.00   |
| Rural New Yorker.....              | 2.00   |
| St. Nicholas.....                  | 2.75   |
| Scientific American.....           | 2.75   |
| Scribner's Monthly (Century).....  | 3.60   |
| Toledo Blade.....                  | 1.25   |
| Vick's Monthly.....                | 1.00   |
| Western Plowman.....               | .50    |
| Youth's Companion.....             | 1.75   |

Hundreds of other papers will be furnished if wanted. Write for prices on what you want, to office of SEED-TIME AND HARVEST.

If you wish a sample copy of any publication, write to the publisher for it and not to us, as we do not keep sample copies on hand and are obliged to forward your requests to them.


## THE EDITOR'S TABLE.

NEARLY every State in the Union has what may be called its State Agricultural Paper, which is edited and compiled with a view to being of especial benefit to the people in that particular section. In addition to taking a few general periodicals every farmer should help support his own state's paper and in the end will be greatly benefitted. Quite a number of these State Papers reach our office. The best published in Massachusetts, are the AMERICAN CULTIVATOR and NEW ENGLAND FARMER, both of Boston, and NEW ENGLAND HOMESTEAD, Springfield. Vermont has the VERMONT FARMER, Northfield; Connecticut has the CONNECTICUT FARMER, Hartford. The AMERICAN RURAL HOME, Rochester, COUNTRY GENTLEMAN, Albany, and RURAL NEW-YORKER, New

York, are the three best in New York State. All of them aspire to a national circulation. The leading Weekly of Pennsylvania is the PRACTICAL FARMER, Philadelphia. Ohio has the OHIO FARMER, Cleveland; Kentucky, the FARMERS' HOME JOURNAL, Louisville; Kansas, the KANSAS FARMER, Topeka; Missouri, COLEMAN'S RURAL WORLD, St. Louis; Indiana, INDIANA FARMER, Indianapolis; Illinois, the WESTERN RURAL, FARMERS' REVIEW, and PRAIRIE FARMER, all of which circulate largely out of the state. We purposely omit the Monthlies, which are usually of national importance and deserve especial notice.

THE HOME CIRCLE loses nothing of its goodness or beauty as it grows older, in fact, like a child, it seems to improve and become a greater pleasure to its parents and friends as it becomes able to take care of itself. The November number is full better in every respect than any that has preceded it. Several elegant engravings adorn its pages, among which one, "The Trial of Queen Catharine," is conspicuous for historical accuracy and faithfulness to life. "The Endless Chain" is concluded to the satisfaction of all. The thrushes are written and described in "Home Birds and their Songs," and the people of Mexico form the topic of the chapter, on "Glimpses at Different Peoples." An excellent Puzzle Department makes the magazine a favorite with the young folks. Published at 1420 Chestnut St., Philadelphia, at \$1.50 per year, or with SEED-TIME AND HARVEST for \$1.75.

FOREMOST among household magazines is DEMOREST'S MONTHLY, which for utility, variety and artistic excellence cannot be surpassed. The November number compares very favorably with its predecessors, and is replete with interesting and useful information, the illustrated portion being all that could be desired. Among the many excellent articles may be mentioned "Luther's Ring," and "Sugar." Jennie June's "How We Live in New York—Keeping a Boarding-House," will be read with interest, and Mrs. Hungerford discusses, in her usual pungent style, "Wedding Presents." "Home Art and Home Comfort," "The World's Progress," "Fancy Work," Science, and Fashion, and other reading matter combine to make the November number of this capital magazine both useful and enjoyable.

THE publication office of our sprightly little contemporary, THE FLORAL INSTRUCTOR, published at Ainsworth, Iowa, was burned shortly after issuing the October number. Type, Presses and Subscription Books were totally consumed. There was a small insurance, and the publishers, Messrs. Spalding & McGill, announce that they shall continue the magazine as usual, but as they do not know who are entitled to it, they desire subscribers to notify them of the time to which their subscriptions are paid and they will try to serve them. We trust they may be successful in rebuilding their business, as they are worthy men and the FLORAL INSTRUCTOR is an excellent magazine. Here is our  of sympathy.

—FORTY SUBSCRIBERS will secure an elegant Ten Dollar Family Bible and may take a handsome cash prize in addition. See Premium List on page 17.



THE GOLDEN RULE, Rev. F. H. Kasson, Editor, published at 25 Congress St., Boston, is an admirable religious weekly, and every issue contains much worth preserving. A sermon every week, by some prominent preacher, is an interesting feature and furnishes valuable Sabbath reading for those who are unable to attend church. The Hygienic and Sanitary department is conducted by Dr. J. H. Hanaford which is a guarantee of its value \$2.00 per year.

WE can heartily commend the POULTRY MONTHLY, published by the Ferris Publishing Co., Albany, N. Y., to all who are interested in the raising of poultry of any kind. Every information needed for every condition of fowl, their improvement in condition and habitation, may be found here from time to time. \$1.25 per year, or with SEED-TIME AND HARVEST for \$1.50.

THE POPULAR SCIENCE MONTHLY, for November, gives much of its space and several of its stronger papers to the consideration of educational topics. The question of the value of the classical studies, which is creating such a stir in the colleges, is treated from different stand-points by Prof. Cooke, of Howard University, and by the Editor. Published by D. Appleton & Co., N. Y., at \$5.00 per year.

EVERY mechanic, in whatever department of art, should be a subscriber to the SCIENTIFIC AMERICAN, every number of which contains 16 pages of useful information and a large number of engravings of new inventions and discoveries. The best scientific information of the day is here given in a convenient and concise manner, and is made eminently practical in the problems of mechanical work. \$3.20 per year, weekly. Munn & Co., 261 Broadway, N. Y.

"GOOD CHEER" is the pleasant title of a new paper which is the most successful effort, within our knowledge, to combine first class literature and low prices. It is filled with the thoughts of some of the foremost writers, is neatly printed, and costs but 50 cents per year. H. D. Watson, Publisher, Greenfield, Mass.

WE would earnestly advise all who are looking for a first class family weekly literary and religious newspaper to see the CHRISTIAN AT WORK. It is published at 216 Broadway N. Y., at \$3.00 per year and is one of the very best papers in the land. Its certain influence for good upon any growing family can never be estimated in dollars and cents.

## Advertisements.

ILLUSTRATED CATALOGUE of Rare and Curious Books free. F. A. DISSINGER, Campbelltown, Pa. 10-11

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## Farmers, Attention!

I am a farmer myself, and know what every farmer needs. I have a reliable article used by every one who works out doors. Send 25 cents to me for sample worth dollars to you. **H. B. PHILLIPS,** Box 44, Tolland, Conn.

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## Plymouth Rocks.

We have a few fine Chicks of this excellent breed, from Gilman's strain, which we will sell at reasonable prices. Also five hens one year old, fine ones. No circulars. Write for what you want. Refer to the publisher of *Seed-Time and Harvest*. Address, **W. H. CAPWELL, La Plume, Pa.**

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# SEED-TIME AND HARVEST.

WE WERE RECENTLY favored with a friendly call by John A. Woodward, Associate Editor of the *Farm Journal*. He is making a trip "out among the farmers" pumping for new ideas, and if he does not succeed in collecting items of value enough to repay you ten times over the small pitance required to enroll you a member of the *F. J. Army*, then we may be voted a false prophet. By the way, friend Atkinson prints some two or three hundred thousand extra copies of his December number and if you have not seen one lately it will be a good time to apply for a sample. Address *Farm Journal*, Philadelphia, Pa.

THE STATEMENT that no premium or commission will be allowed unless at least two subscriptions are sent, means Agent's premium. The Seed Certificate will be given to any one who remits 50 cents for one subscription.

## Advertisements.

In writing to any of our advertisers, please mention that you saw their advertisement in *SEED-TIME AND HARVEST*.

### SHARP GOULD'S Razor Edge BUTCHER KNIVES. Best in the World.

Finished in razor order, and sent by Mail (Postpaid) for \$1, each. References, Testimonials, Price List, Free. Do not fail to send us your order. Address **J. H. GOULD**, Man'fr, Atwater, Ohio, or **WM. C. CUNNING**, P. M., Limaville, O. 11-12 Mention Seed-Time and Harvest.

**HELP** Wanted—Men, Women, Boys and Girls, can start a new, light and easy business in their own towns. The work can be done quietly at home in daytime or evening—no peddling or traveling necessary—is strictly honorable, and will positively bring in more money in 30 days than anything ever advertised. You can easily make 10c. to \$1 an hour, or \$5 to \$15 a day, if you start right. "The Secret Revealed." "What I want you to do," and **ONE DOZEN** Samples to commence work on, by return mail, **FREE**. Send 10 cents for postage and advertising, and Address **H. G. FAY**, Rutland, Vermont.

### THE BEST CHANCE YET. \$3.40 for 38 Cents, Stamps or Silver.

Any one sending me the address of 10 married persons, and 38 cents will receive by return mail a package of goods that net \$3.40 including an extra heavy gold-plated ring worth \$1. I have a fine variety of goods, and make this sacrifice to secure future orders, on which I expect my profits. Any one can make a bushel of money by acting now. Address **J. D. HENRY**, Box 127, BUFFALO, N. Y.



**FREE**

To introduce the *Capitol City Home Guest*, our 48 column illustrated *Magazine*, into every home, we shall until further notice, present each person sending us 25c. for 3 months' subscription, with an elegant rolled gold finger ring and a 50 page *Illustrated Book* absolutely **Free**; not gilt but rolled gold warranted or money refunded. Club of 5, \$1.00. Raise a club and get your own ring **FREE**.

Pubrs. Home Guest, 241 Main St., Hartford, Conn.

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I have a supply of this valuable insecticide for the prompt destruction of Flie, Bugs, Roaches, Potat Bugs, Cabbage Worms, &c. By mail, postpaid; 1 oz. 10 cents; 1/4 lb., 25 cents; 1 lb., \$1.00.

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If you want A Vehicle

write to the **Columbus Buggy Co.**



## Puzzle Garnerings.

EDITED BY FRANK S. FINN.

— O —

*All Communications intended for this Department should be addressed to Frank S. Finn, No. 153, Massabesic Street, Manchester, N. H.*

*Answers and original contributions solicited from all.*

### ANSWERS TO SEPTEMBER PUZZLES.

- 7.—“September blow soft  
Till the fruit's in the loft.”
- |              |                |
|--------------|----------------|
| 8.—C A R A C | 9.—C A R R O T |
| A G I L E    | A L I A S      |
| R I V E N    | R I N G        |
| A L E R T    | R A G          |
| C E N T S    | O S            |
|              | T              |
10. C-H-ARM.      11. GIRAFFE.
- 12.—“Hunger is the best sauce.”

### NOVEMBER GARNERINGS.

#### No. 19. NUMERICAL ENIGMA.

The answer, composed of 35 letters, is an old-time weather proverb.

- The 6, 7, 1, 12, 13, 16, 9 is to aid.  
 The 5, 2, 8, 21, 4, 14 is a small portion.  
 The 25, 22, 10, 3, 19 is to defraud.  
 The 17, 31, 15, 11 is to waste.  
 The 32, 18, 23, 24 is to escape.  
 The 28, 27, 29, 26 is a month.  
 The 20, 30, 33, 34, 35 is to trace.

ANN O. TATOR.

#### No. 20. RHOMBOID.

Across— 1. A heathen. 2. Enchantment. 3. A cord to keep a wound open. 4. An evil spirit. 5. To pay over.

Down— 1. A consonant. 2. A verb. 3. An æriform, elastic fluid. 4. Old. 5. Nitrate of potash. 6. A small creek or bay. 7. To bite. 8. A note in music. 9. A letter.

O. D. V.

#### No. 21. HALF SQUARE.

1. A large bird. 2. A strong vegetable. 3. Precise. 4. An animal. 5. Forward. 6. A consonant.

UNDINE.

#### No. 22. A DIAMOND.

1. A consonant. 2. A weapon. 3. An old English coin. 4. Former. 5. The lowest point. 6. A sailor. 7. A consonant.

DRAH POQUIER.

#### No. 23. DOUBLE ACROSTIC.

(Words of four letters.)

1. Relish. 2. To relieve. 3. A tree. 4. To aid. 5. To unite. 6. To bring up.

Primals:—A gentle wind.

Finals:—Frame of mind.

NELLIE THOMAN.

#### No. 24. CROSS WORD ENIGMA.

In summit, not in peak;  
 In feather, not in beak;  
 In gather, not in fold;  
 In fasten, not in hold;  
 In bucket, not in pail;  
 In tempest, not in hail;  
 In gloomy not in dark;  
 In impress, not in mark;  
 In solvent, not in debt;  
 In peevish, not in fret;  
 In autumn, not in fall;  
 In garden, not in wall;  
 Whole, is a day comes every year,  
 Bringing with it joy and cheer.

NEWTON A. BRYANT.

#### No. 25. HIDDEN WORDS.

Sal. Smith sat silently studying over her future destiny. She had drifted along in her father's house until the evening of her thirty-sixth birthday, and, deciding that she would no longer be an old maid, she washed up each of her gloves, ironed her best dress, which was cheap R. I. cotton, and bought a new plume for her cap. Pleased with her improved appearance she left the paternal roof and started abroad plainly bent on matrimony. Not meeting an acquaintance, she pitched *pel mel* on Tom, a total stranger, at the depot at Oswego. He darted off, like a bee toward its hive, and, attempting to escape as rapidly as possible, leaped a brook, ran through mud, and rushed around a corner, receiving a stunning rap every minute or so from projecting posts. Finally, he dodged into a den ostensibly for a dish of ice cream, for



in justice to him we will say he never drank ale or beer. Just then a cur ran through the crowd, at each leap yelping and wanting to fight. Sal scrambled into a car and seated herself at a window where she could watch for Tom, and mentally ejaculated: "He will soon return, I presume, and not desiring to range around in danger, I will stay here until this car rots down, but I'll see him again!" Pressing her face against the pane, which was as brittle as a spar, "*snip*" went the glass, and an officer approaching, said ten dollars was the damage. Sal told him she never expected to handle money enough to pay so great a bill, and Tom must marry her and pay it. So Tom was found and arrested. He pleaded innocence, but when closely pressed said: "Although I have had many better offers, I will accept Sal's if you will release me from your claim of damages. The officer agreed, and bowing and blushing Sal took Tom's arm and in an hour they were married. He then gave her some peppermint drops to cool her heated blood, as her face was blotched to excelsis erysipelas or scarlet fever, and he feared she would not escape an utter collapse. A peddler appeared and Tom buying an egg, planted himself in Sal's lap, saying: "In this union, I only, should be congratulated, and I'm glad that in the end I've come back."

So, Thomas and Sarah, soberly settled down in business as keepers of a city market stand, where they sold fruits and vegetables, over thirty varieties of which have been named in this narrative. What are they?  
LAMPS.

ANSWERS in January number.

PRIZES.—For best list of answers, we offer the New American Dictionary worth One Dollar.

For second best list, we will award a Pocket Magnifier worth 75 cents.

Answers must be received before Dec. 14.

Complete lists of answers to the puzzles for September were received from Byrnehc, Inez E. Fox, Jeane, and Kittie Clover.

Partial lists were received from Lulu Butler, Undine, Bertha M. Holgate, N. S.

Van Deusen, Anna B. Bear, Voluey P. Johnson and John F. Merriam.

Lists closed on Oct. 13, and prizes were awarded as follows: Book to Jeane; visiting cards to Inez E. Fox.

#### OUR COZY CORNER.

Quite a number of solvers, for a commencement, of the September puzzles, and many kind and friendly missives winged their way to the puzzle editor's office. Would we could say the same of all; but we *did* receive one harsh, and we think, very unjust criticism. If a person cannot solve a certain puzzle, we do not see why one should "get mad" about it, call the puzzle "doggerel" and fill a letter with abuse.

Of course, contributors and solvers are thanked for puzzles and solutions and we hope they will continue at the good work. We notice some made an odd division in the words of the answer to No. 7, thus: "blows oft" for "blow soft."—*Kittie Clover* likes these enigmas relating to the months, and adds: "Let us have some more, by all means!"—*A. N. B.*: Sorry you feel so unequal to the task. Hope you will have better fortune in future. The puzzle named was answered by many.—*B. M. H.*: Why not send in a few puzzles? Trust you will win a prize ere long and believe you will be able to do so.—*Ruthven*: You have many friends in puzzeldom, and we are glad to please them by adding your name to our list of contributors.—*O. D. V.*: Answers and names of solvers and prize winners are given the second month after the one in which the puzzles appear.—*Undine*: Glad you are pleased with the magazine. We feel "quite at home" in resuming puzzle editing, and it seems like "good old times" to hear from so many former friends in puzzeldom.

A happy Thanksgiving to you all.

F. S. F.

Look at Reed's advertisement of Concord Grapes on page 25. Every reader of SEED-TIME AND HARVEST should send a trial order for a dozen. You are sure to be pleased. Satisfaction guaranteed.

—ALL COMPETITORS are sure of good pay and a small club may take a good cash prize. See second cover page.



## Seed-Time and Harvest BUSINESS DIRECTORY.

Cards for all kinds of business pertaining to Agriculture or Horticulture will be inserted in this Directory and a copy of SEED-TIME AND HARVEST included for \$2.00 per year, always in advance. Your order is solicited.

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Isaac F. Tillinghast, La Plume, Pa.

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#### SOUTH DOWNS.

P. C. McClure, Fountain Stock Farm, Galion, O.

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P. C. McClure. Galion, Ohio.

#### ESSEX PIGS & CHOICEST P. ROCKS.

Joe Farmer, Flushing, Belmont Co., Ohio. 11-4

NEW GRAPES & OLD - AN ILLUSTRATED  
THE JEFFERSON CATALOGUE FREE  
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We are prepared to make low rates on large lots for fall trade. Those wanting will please correspond with us. We have Bartlett and Kieffer Pear, Orange and Champion Quince, Reed Plum, Apple and Cherry Trees, Wilson Early Blackberry from root cuttings, with a general stock of Small Fruits and Ornamental trees. Also

Jersey Red Pigs ready for shipment.

10-13 DAVID BAIRD & SON,  
Manalapan, N. J.

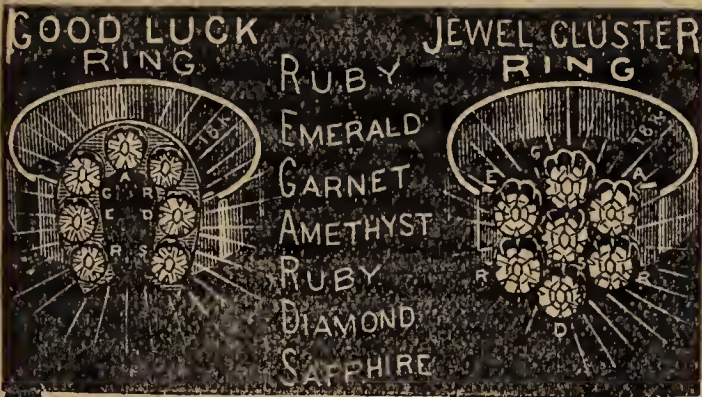
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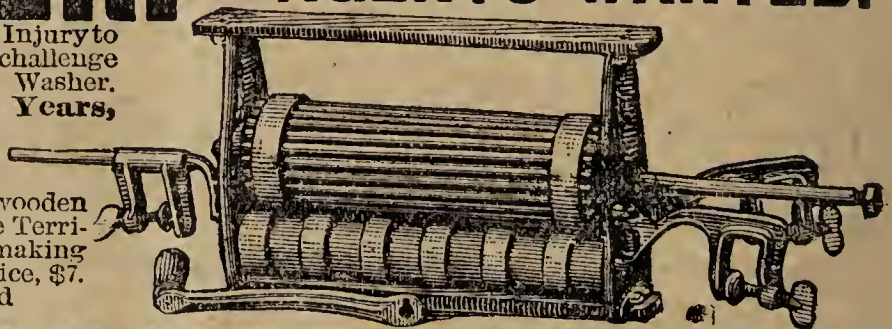
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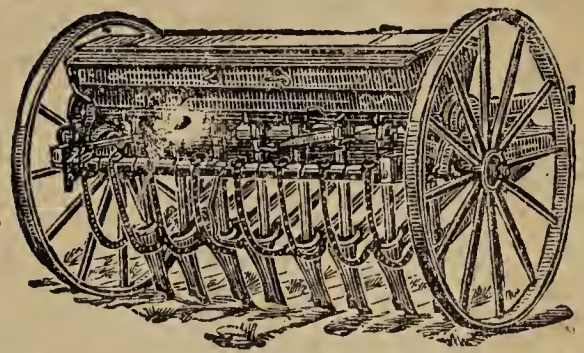


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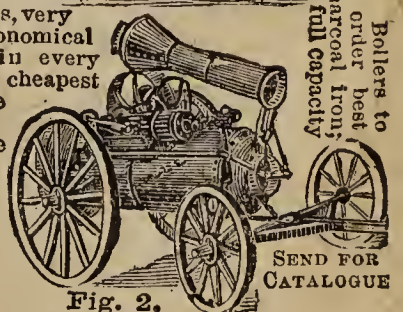
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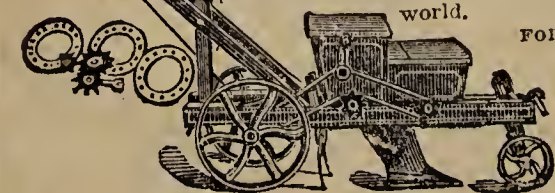


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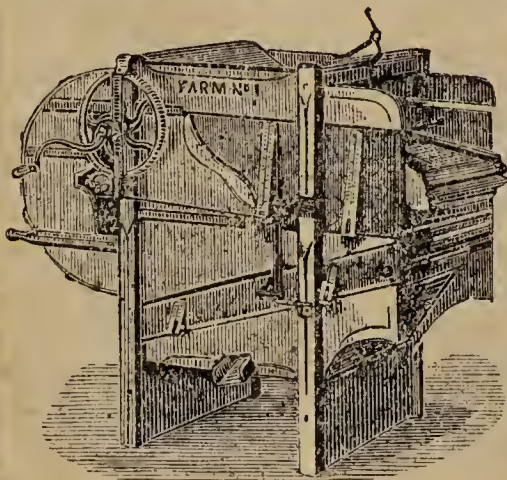
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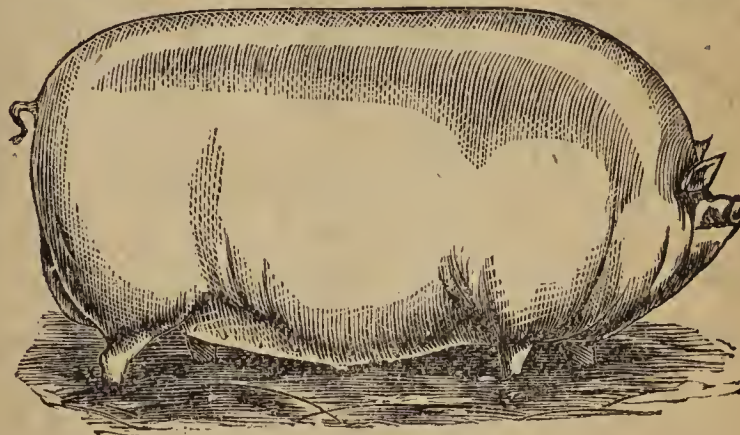
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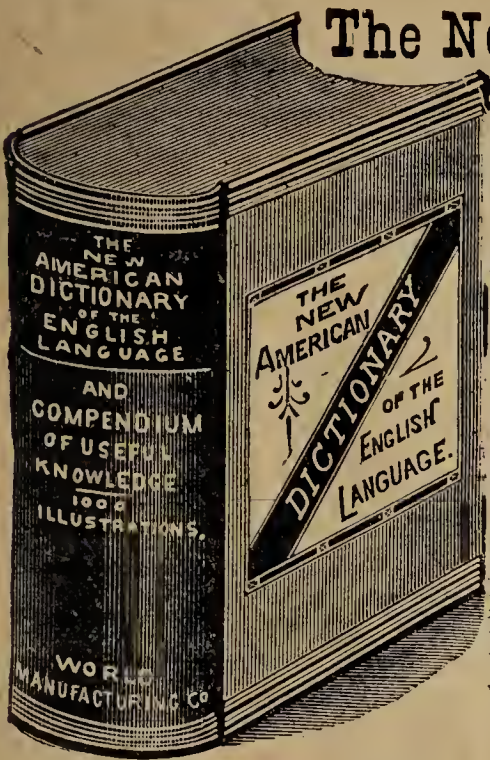
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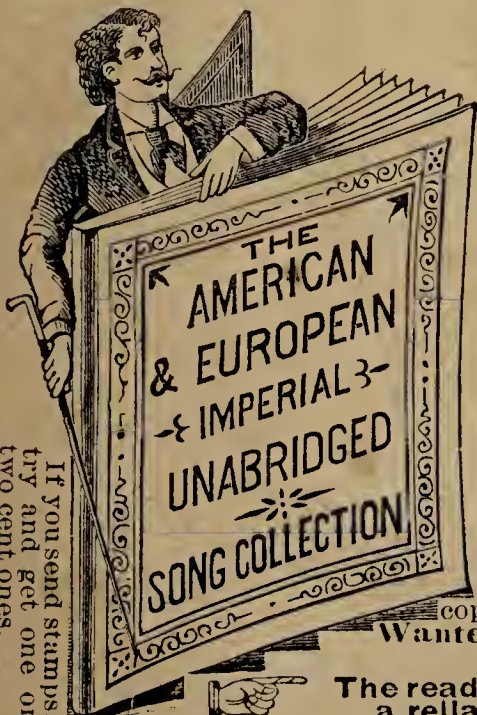
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**No seeds** are sent out on commission to be returned and sold in after years!

**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if **packets only** are taken.

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

| Beans.                               | 2-oz Pkt. | Lb. | Peck. |
|--------------------------------------|-----------|-----|-------|
| Ivory Pod Wax, <i>white</i> .....    | 10        | 35  | 1.60  |
| Crystal Pod Wax, <i>white</i> .....  | 10        | 35  | 2.00  |
| Ferry's Golden Wax, <i>mottled</i> , | 10        | 35  | 2.00  |
| Early Black Wax.....                 | 10        | 35  | 2.00  |
| Lemon Pod Wax, <i>white, late</i> ,  | 10        | 40  | 2.50  |
| New Prolific Tree.....               | 10        | 40  | 2.50  |
| Early Feejee.....                    | 10        | 35  | 1.60  |
| Large White Marrowfat.....           | 10        | 25  | 1.50  |
| Dwarf Horticultural.....             | 10        | 40  | 2.50  |
| Cannadian Wonder.....                | 15        | 50  | 4.00  |
| Golden Butter.....                   | 15        | 50  | 4.00  |

| Pole Beans.                | 2-oz Pkt. | Lb. | Peck. |
|----------------------------|-----------|-----|-------|
| Concord.....               | 10        | 30  | 2.00  |
| Large Lima.....            | 10        | 30  | 2.50  |
| German Wax.....            | 10        | 30  | 2.00  |
| Dreer's Improved Lima..... | 10        | 30  | 3.00  |

| Corn.                       | 2-oz Pkt. | Lb. | Peck. |
|-----------------------------|-----------|-----|-------|
| Early Marblehead.....       | 10        | 30  | 1.60  |
| Amber Cream, New,.....      | 10        | 30  | 1.60  |
| Early Minnesota.....        | 10        | 30  | 1.60  |
| Crosby's Extra Early.....   | 10        | 30  | 1.60  |
| Stowell's Evergreen.....    | 10        | 30  | 1.60  |
| New Egyptian.....           | 10        | 30  | 1.60  |
| Red and White Rice Pop-Corn | 10        | 40  | —     |
| Wauhakum Field.....         | 10        | 30  | 1.00  |
| Longfellow's Field.....     | 10        | 30  | 1.00  |

**Peas.** Those **Peas** marked \* are wrinkled sorts. Those marked *a* are extra early; *b*, medium; *c*, late.

|                                           |    |    |      |
|-------------------------------------------|----|----|------|
| <i>a</i> Cleveland's First & Best, 2½ ft. | 10 | 35 | 2.00 |
| <i>a</i> *Laxton's Alpha, 3 ft.           | 10 | 35 | 2.00 |
| <i>a</i> Philadelphia Extra Early, 2½ ft. | 10 | 30 | 1.60 |
| <i>a</i> *Bliss's American Wonder, 1 ft.  | 10 | 40 | 2.50 |
| <i>b</i> *McLean's Advancer, 2 ft.        | 10 | 30 | 1.60 |
| <i>b</i> *McLean's Little Gem, 1 ft.      | 10 | 30 | 1.60 |
| <i>b</i> *Carter's Premium Gem, 1½ ft.    | 10 | 35 | 2.00 |
| <i>b</i> *Stratagem, 2½ ft.               | 15 | 50 | 4.00 |
| <i>b</i> *Pride of the Market 2½ ft.      | 15 | 50 | 4.00 |
| <i>c</i> *Yorkshire Hero, 5½ ft.          | 10 | 30 | 1.60 |
| <i>c</i> *Blue Imperial, 3 ft.            | 10 | 30 | 1.60 |
| <i>c</i> *Champion of England, 5 ft.      | 10 | 30 | 1.60 |
| <i>c</i> Tall Gray Sugar, 5 ft.           | 10 | 40 | 2.50 |
| <i>c</i> Black-Eyed Marrowfat, 5 ft.      | 10 | 25 | 1.00 |

| Asparagus.                    | Pkt. | Oz. | Lb.  |
|-------------------------------|------|-----|------|
| Conover's Colossal.....       | 05   | 10  | 0.75 |
| Early Purple Giant Argenteuil | 05   | 20  | 1.50 |

| Brussels Sprouts.        | Pkt. | Oz. | Lb. |
|--------------------------|------|-----|-----|
| Carfer's Perfection..... | 05   | 25  | —   |

| Beets.                         | Pkt. | Oz. | Lb. |
|--------------------------------|------|-----|-----|
| New Eclipse, <i>true</i> ..... | 10   | 25  | —   |
| Early Egyptian.....            | 05   | 10  | .75 |
| Bassano.....                   | 05   | 10  | .75 |
| Dewing's Red Turnip.....       | 05   | 10  | .75 |
| Yellow Turnip.....             | 05   | 10  | .75 |
| Long Smooth Blood.....         | 05   | 10  | .75 |
| Above Varieties Mixed.....     | 05   | 10  | .75 |

| Mangel Wurzel Beets.   | Pkt. | Oz. | Lb. |
|------------------------|------|-----|-----|
| Yellow Globe.....      | 05   | 10  | .75 |
| Norbitan's Giant.....  | 05   | 10  | .75 |
| Webb's New Kinver..... | 05   | 10  | .75 |
| Imperial Sugar.....    | 05   | 10  | .65 |

| Broccoli.              | Pkt. | Oz. | Lb. |
|------------------------|------|-----|-----|
| Early Purple Cape..... | 10   | 60  | —   |
| White Cape.....        | 10   | 60  | —   |
| Walcheran.....         | 10   | 60  | —   |

| Cauliflower.                | Pkt. | Oz.  | Lb.   |
|-----------------------------|------|------|-------|
| Lackawanna (New).....       | 20   | 2.00 | 30.00 |
| Early Snowball.....         | 20   | 2.00 | 30.00 |
| Earliest Dwarf Erfurt.....  | 20   | 2.00 | —     |
| Early London.....           | 15   | .75  | —     |
| Nonpareil.....              | 20   | 1.25 | —     |
| Lenormand's Short Stem..... | 20   | 1.25 | —     |
| Above Varieties Mixed.....  | 20   | 1.25 | —     |

| Cabbage.                     | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Hartwell Early Marrow.....   | 15   | 50  | 8.00 |
| Very Early Favorite.....     | 15   | 50  | 8.00 |
| Early York.....              | 05   | 15  | 2.00 |
| Berkshire Beauty, New,.....  | 10   | 25  | 4.00 |
| Early Bleichfield.....       | 10   | 25  | 4.00 |
| True Jersey Wakefield.....   | 10   | 25  | 4.00 |
| Henderson's Early Summer..   | 10   | 25  | 4.00 |
| Newark Early Flat Dutch....  | 10   | 25  | 4.00 |
| Large Early Oxheart,.....    | 05   | 20  | 3.00 |
| Early Winningstadt.....      | 05   | 20  | 3.00 |
| Fottler's Early Drumhead.... | 05   | 25  | 4.00 |
| Premium Flat Dutch.....      | 05   | 25  | 4.00 |
| Late American Drumhead....   | 05   | 25  | 4.00 |
| Marblehead Mammoth.....      | 05   | 25  | 4.00 |
| Perfection Drumhead Savoy..  | 05   | 25  | 4.00 |
| Red Drumhead,.....           | 05   | 25  | 4.00 |
| Red Dutch.....               | 05   | 25  | 4.00 |
| Early Dark Red Erfurt.....   | 10   | 35  | 5.00 |
| Above Varieties Mixed.....   | 10   | 30  | 4.50 |

| Carrot.                    | Pkt. | Oz. | Lb.  |
|----------------------------|------|-----|------|
| Early Short Horn.....      | 05   | 10  | 1.25 |
| Improved Long Orange.....  | 05   | 10  | 1.50 |
| Danvers Orange.....        | 05   | 10  | 1.25 |
| White Belgian.....         | 05   | 10  | 1.00 |
| Above Varieties Mixed..... | 05   | 10  | 1.00 |

| Celery.                       | Pkt. | Oz. | Lb.  |
|-------------------------------|------|-----|------|
| Golden Hartwell, New.....     | 15   | 40  | —    |
| La Plume Chestnut, New,....   | 10   | 25  | 3.00 |
| Crawford's Half Dwarf.....    | 05   | 25  | 3.00 |
| Carter's Dwarf Crimson.....   | 10   | 25  | 3.00 |
| New Golden Dwarf.....         | 10   | 25  | 3.00 |
| Dwarf White Solid.....        | 05   | 25  | 3.00 |
| Boston Market.....            | 10   | 50  | —    |
| Sandringham.....              | 05   | 25  | 3.00 |
| Giant White Solid.....        | 05   | 25  | 3.00 |
| Celeriac, Turnip Rooted,..... | 05   | 25  | —    |
| Above Varieties Mixed.....    | 10   | 30  | —    |

| Chicory.          | Pkt. | Oz. | Lb.  |
|-------------------|------|-----|------|
| Large Rooted..... | 05   | 10  | 1.25 |

| Cress.                      | Pkt. | Oz. | Lb.  |
|-----------------------------|------|-----|------|
| Curled, or Peppergrass..... | 05   | 10  | 1.25 |
| Water Cress.....            | 10   | 60  | —    |

| Cucumber.                    | Pkt. | Oz. | Lb.  |
|------------------------------|------|-----|------|
| Tailby's Hybrid, New,.....   | 05   | 10  | 1.50 |
| Early Cluster.....           | 05   | 10  | 1.50 |
| Early Russian.....           | 05   | 10  | 1.50 |
| Peerless Early White Spine.. | 05   | 10  | 1.50 |
| Green Prolific.....          | 05   | 10  | 1.50 |
| Long Green.....              | 05   | 10  | 1.50 |
| Above Varieties Mixed.....   | 05   | 10  | 1.50 |

| Egg Plant.                  | Pkt. | Oz. | Lb. |
|-----------------------------|------|-----|-----|
| Long Purple.....            | 10   | 50  | —   |
| Improved N. Y. Purple.....  | 10   | 60  | —   |
| Very Early Dwarf Purple.... | 10   | 50  | —   |
| Striped Gaudalupe.....      | 10   | 60  | —   |
| Long White China.....       | 10   | 60  | —   |
| Above Varieties Mixed.....  | 10   | 60  | —   |



# SEED-TIME AND HARVEST.

|                                 | Pkt. | Oz. | Lb.  |
|---------------------------------|------|-----|------|
| <b>Endive.</b>                  |      |     |      |
| Green Curled .....              | 05   | 20  | 2.00 |
| <b>Gourds.</b>                  |      |     |      |
| New Nest Egg .....              | 15   | 50  | —    |
| <b>Kohl Rabi.</b>               |      |     |      |
| Large Purple.....               | 10   | 35  | 5.00 |
| Early White Vienna .....        | 10   | 35  | 5.00 |
| Above Varieties Mixed.....      | 10   | 35  | 5.00 |
| <b>Lettuce.</b>                 |      |     |      |
| Black Seeded Satisfaction ..... | 05   | 20  | 2.00 |
| Royal Summer Cabbage .....      | 05   | 20  | 2.00 |
| Black Seeded Simpson, New,..    | 05   | 20  | 2.00 |
| Hanson .....                    | 05   | 20  | 2.00 |
| Victoria .....                  | 05   | 20  | 2.00 |
| Early Curled Simpson .....      | 05   | 20  | 2.00 |
| True Boston Market .....        | 05   | 20  | 2.00 |
| White Seeded Tennisball.....    | 05   | 20  | 2.00 |
| Black Seeded Tennisball.....    | 05   | 20  | 2.00 |
| Drumhead, or Malta .....        | 05   | 20  | 2.00 |
| Above Varieties Mixed .....     | 05   | 20  | 2.00 |
| <b>Leek.</b>                    |      |     |      |
| Large Scotch Flag .....         | 05   | 30  | 4.00 |
| <b>Musk Melon.</b>              |      |     |      |
| <b>Banana</b> .....             | 5    | 25  | 4.00 |
| Nutmeg.....                     | 05   | 10  | 1.25 |
| Skillman's Netted.....          | 05   | 10  | 1.25 |
| Improved Yellow Cantaloupe      | 05   | 10  | 1.25 |
| Green Citron.....               | 05   | 10  | 1.25 |
| Pine Apple .....                | 05   | 10  | 1.25 |
| Jenny Lind.....                 | 05   | 10  | 1.25 |
| Surprise, New, .....            | 05   | 15  | 2.00 |
| Bay View, New,.....             | 05   | 15  | 2.00 |
| Montreal Green Nutmeg, New,     | 05   | 20  | 3.00 |
| Netted Gem .....                | 05   | 20  | 3.00 |
| Hackensack .....                | 05   | 10  | 2.00 |
| Christiana Orange .....         | 05   | 10  | 2.00 |
| Above Varieties Mixed.....      | 05   | 10  | 1.50 |
| <b>Water Melon.</b>             |      |     |      |
| The "Boss," New, .....          | 05   | 20  | 3.00 |
| Japan Sculptured-Seeded .....   | 05   | 20  | 3.00 |
| Cuban Queen, New.....           | 05   | 20  | 3.00 |
| Phinney's Early.....            | 05   | 10  | 1.25 |
| Striped Gipsy.....              | 05   | 10  | 1.25 |
| Ice Cream .....                 | 05   | 10  | 1.25 |
| Mountain Sweet .....            | 05   | 10  | 1.25 |
| Ferry's Peerless .....          | 05   | 10  | 1.25 |
| Citron. (for preserving,) ..... | 05   | 10  | 1.25 |
| Above Varieties Mixed.....      | 05   | 10  | 1.25 |
| <b>Mustard.</b>                 |      |     |      |
| White French.....               | 05   | 05  | 60   |
| Black American .....            | 05   | 05  | 60   |
| <b>Onion.</b>                   |      |     |      |
| Southport Yellow Globe, New     | 05   | 20  | 2.00 |
| Southport Red Globe, fine,....  | 05   | 20  | 2.00 |
| Early Red Globe.....            | 05   | 20  | 2.00 |
| Yellow Danvers.....             | 05   | 15  | 1.60 |
| Red Wethersfield .....          | 05   | 15  | 1.60 |
| Large Yellow Dutch.....         | 05   | 15  | 1.60 |
| White Globe .....               | 05   | 20  | 2.00 |
| White Portugal.....             | 05   | 20  | 2.00 |
| New Queen .....                 | 05   | 20  | 3.00 |
| White Italian Tripoli.....      | 05   | 20  | 3.00 |
| Giant Rocca.....                | 05   | 20  | 3.00 |
| <b>Parsnip.</b>                 |      |     |      |
| Smooth Hollow Crowned .....     | 05   | 10  | .75  |
| Early Round, .....              | 05   | 10  | .75  |
| New Maltese .....               | 05   | 10  | 1.00 |
| <b>Parsley.</b>                 |      |     |      |
| Extra Fine Curled .....         | 05   | 15  | 2.00 |
| <b>Pepper.</b>                  |      |     |      |
| <b>New Golden Dawn</b>          | 10   | 50  | 8.00 |
| Sweet Bell or Bull Nose.....    | 10   | 25  | 4.00 |
| Large Sweet Mountain.....       | 10   | 25  | 4.00 |
| Red Cayenne .....               | 10   | 25  | 4.00 |
| Spanish Monstrous (New)....     | 10   | 40  | —    |

|                                                             | Pkt. | Oz. | Lb.                |
|-------------------------------------------------------------|------|-----|--------------------|
| <b>Pumpkin.</b>                                             |      |     |                    |
| Large Cheese.....                                           | 05   | 10  | .85                |
| Sugar. (Fine for pies,).....                                | 05   | 20  | —                  |
| Connecticut Field .....                                     | 05   | 05  | .45                |
| <b>Radishes.</b>                                            |      |     |                    |
| Early Scarlet Turnip .....                                  | 05   | 10  | 1.00               |
| Early White Turnip .....                                    | 05   | 10  | 1.00               |
| Long Scarlet Short-Top.....                                 | 05   | 10  | 1.00               |
| Early Scarlet Olive .....                                   | 05   | 10  | 1.00               |
| French Breakfast.....                                       | 05   | 10  | 1.00               |
| Grey Summer Turnip.....                                     | 05   | 10  | 1.50               |
| Golden Yellow Summer (New)                                  | 05   | 10  | 1.50               |
| Summer Varieties Mixed....                                  | 05   | 10  | 1.25               |
| China Rose Winter .....                                     | 05   | 10  | 1.00               |
| Black Spanish Winter .....                                  | 05   | 10  | 1.00               |
| California Mammoth White...                                 | 05   | 15  | 2.00               |
| Winter varieties Mixed .....                                | 05   | 10  | 1.50               |
| <b>Rhubarb.</b>                                             |      |     |                    |
| Linnæus .....                                               | 05   | 10  | 1.60               |
| <b>Salsify, or Vegetable Oyster.</b>                        |      |     |                    |
| White French .....                                          | 05   | 15  | 1.50               |
| <b>Spinach.</b>                                             |      |     |                    |
| Round Leaved .....                                          | 05   | 05  | 0.50               |
| Monstrous Viroflay .....                                    | 05   | 10  | 1.00               |
| <b>Squash.</b>                                              |      |     |                    |
| Low's Essex Hybrid, New,....                                | 05   | 10  | 1.25               |
| Early White Bush .....                                      | 05   | 10  | 1.00               |
| Summer Crookneck .....                                      | 05   | 10  | 1.00               |
| Hubbard.....                                                | 05   | 10  | 1.25               |
| Marblehead .....                                            | 05   | 10  | 1.25               |
| Butman, .....                                               | 05   | 10  | 1.25               |
| Mammoth .....                                               | 10   | 30  | —                  |
| <b>Tobacco.</b>                                             |      |     |                    |
| Connecticut Seed Leaf.....                                  | 10   | 30  | —                  |
| Spanish Long Leaf.....                                      | 10   | 30  | —                  |
| <b>Tomato. <math>\frac{1}{2}</math> Oz, at ounce rates.</b> |      |     |                    |
| Livingston's Favorite, New,                                 | 10   | 60  | 8.00               |
| Essex Hybrid, New.....                                      | 10   | 50  | 5.00               |
| Ford's Alpha, New, .....                                    | 10   | 50  | 5.00               |
| Acme, .....                                                 | 05   | 30  | 4.00               |
| Mayflower, New, .....                                       | 10   | 50  | 5.00               |
| Red Currant .....                                           | 05   | 50  | 5.00               |
| Paragon .....                                               | 05   | 30  | 4.00               |
| Canada Victor .....                                         | 05   | 30  | 4.00               |
| Livingston's Perfection, ....                               | 05   | 30  | 4.00               |
| Trophy .....                                                | 05   | 30  | 4.00               |
| Island Beauty.....                                          | 05   | 50  | 5.00               |
| Golden Rural, New,....                                      | 05   | 50  | 5.00               |
| Above Varieties Mixed ....                                  | 05   | 30  | 4.00               |
| <b>Turnip.</b>                                              | Pkt. | Oz. | Lb.                |
| New White Egg.....                                          | 05   | 10  | .75                |
| Early White Dutch.....                                      | 05   | 10  | .75                |
| Purple Top Strap Leaf.....                                  | 05   | 10  | .75                |
| Long White Cow Horn .....                                   | 05   | 10  | .75                |
| Large White Globe.....                                      | 05   | 10  | .75                |
| Yellow Aberdeen .....                                       | 05   | 10  | .75                |
| Yellow Globe .....                                          | 05   | 10  | .75                |
| Golden Ball.....                                            | 05   | 10  | .75                |
| Above Varieties Mixed.....                                  | 05   | 10  | .75                |
| <b>Rutabaga, or Swede Turnip.</b>                           |      |     |                    |
| White French, or Sw't German                                | 05   | 10  | 80                 |
| Skirving's Purple Top Yellow                                | 05   | 10  | 80                 |
| Brill's American Yellow .....                               | 05   | 10  | 80                 |
| Shamrock Swede, Yellow.....                                 | 05   | 10  | 80                 |
| Above Varieties Mixed.....                                  | 05   | 10  | 88                 |
| <b>Herb Seeds.</b>                                          | Pkt. | Oz. | Pkt. Oz.           |
| Coriander .....                                             | 05   | .20 | Dill..... 05 .25   |
| Horehound.....                                              | 10   | 50  | Sage..... 05 .20   |
| Summer Savory... ..                                         | 10   | 30  | Saffron.... 05 .25 |
| Sweet Marjoram.. ..                                         | 10   | 40  | Lavender . 10 .30  |
| Caraway .....                                               | 05   | 15  | Sweet Basil 10 .40 |
| Sweet Fennel.....                                           | 05   | 20  | Thyme.... 10 .50   |

**Isaac F. Tillinghast,  
La Plume, Lack'a Co., Pa.**



# 1848 THE INDEPENDENT. 1884

The Largest, the Ablest, and the Freshest  
Religious and Literary Weekly.

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A PAPER which has published articles from the following persons, selected from a list of over three hundred writers who have contributed to its columns during the past year, cannot be a very dull paper.

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Prof. Fred M. Bird,  
Prof. Alex. B. Bruce, Glasgow, Scot.  
Rev. A. H. Bradford,  
Austin Bierbower,  
Mary D. Brine,  
W. H. Chad Boscawen, Wrexham,  
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# Continued from 2d Cover Page.

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2. Each subscriber will receive a premium certificate for 25 cents worth of seeds of his own choice or selection from our list.
3. No commission or premium will be allowed unless at least two names are sent.
4. The club raiser may take a cash commission or a premium, as he prefers, but not both.
5. All lists intended for competition for the Cash Prizes should be marked "For Competition."
6. Names may be sent as fast as received and all will be credited until March 1, 1884.
7. There will positively be no "postponement" or other "crawl out." We design this for a fair, square, honest offer, made in good faith and wish it to be taken with the greatest confidence.
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783

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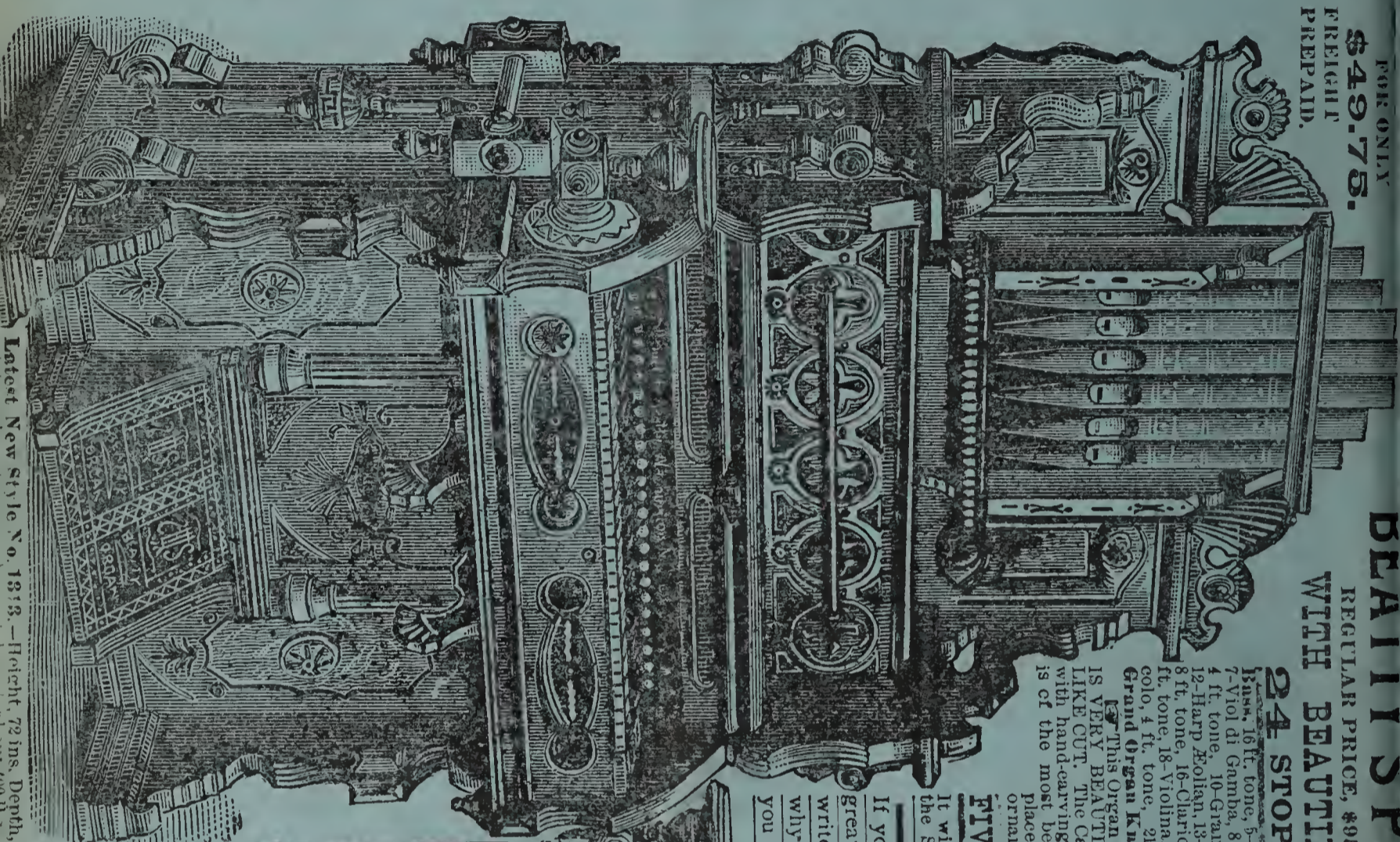
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NOV. 25.

*Daniel F. Beatty*

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**DECEMBER.**



An Illustrated Monthly

MAGAZINE,

**Devoted to Rural Affairs.**

PUBLISHED BY

Isaac F. Tillinghast, La Plume, Pa.

SUBSCRIPTION, FIFTY CENTS A YEAR.

**For particulars, see next page.**

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The great favor with which SEED-TIME AND HARVEST has already been received, has instilled in us the belief that if more widely known, its circulation might rapidly rise into the hundred thousands with the Metropolitan journals.

To induce every one of its present readers to show it to all of his neighbors, we have decided to offer the most liberal premiums and prizes ever yet combined on any American journal. And we have arranged these so that all who engage in the work must be well repaid for every hour's time spent in our behalf.

Our plan is briefly as follows: At the bottom of the third cover-page of this issue, will be found a Seed Certificate, which will be countersigned in the first copy sent to a new subscriber, thus giving each who pays 50 cents a premium worth 25 cents in cash. This ought surely to be inducement enough for any person who is at all interested in gardening, to subscribe if asked. The club getter may then keep 10 cents cash commission from each, remitting us 40 cents each, or, if preferred, send us the whole amount collected, 50 cents each, and take premiums from our list to the value of 25 cents for each name sent in, or one-half the whole amount sent us. This will give good pay to all who will work. Ten subscribers per day would be a very low estimate, but it will give the agent One Dollar in cash, or \$2.50 worth of his choice of our premiums, which are all well worth the price named for them.

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Continued to Third Cover Page.



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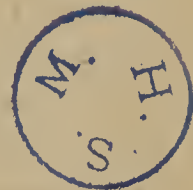
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ADVERTISING SPACE \$3.60 PER INCH.

VOL. 4,

DECEMBER, 1883.

NO. XII.



Faithfully Yours  
Isaac F. Fillingham



## Grandma's Christmas Present.

BY FRANK S. FINN.

Yes, my dears, your grandma is willing to tell you a story, if you will promise to let her tell it in her own way, and not interrupt her, nor ask any questions about who the people were until I get through; and also promise me that you must then let the sandman come and close your eyes and try to sleep until the blessed Christmas morn comes.

It seems as though the story ought to be told on this evening, because so much happened in the same on other Christmas Eves and you are now old enough to understand the moral of it.

It may sound to you like a fairy tale or a book story; but fairy tales are not true and my story is; and there are a great many stories that never find their way into the papers or books, although they may be just as good for all that.

The first part of my story took place, many years ago, when I wasn't living in England nor in so elegant a house as I do now.

No, I was living "away down east," in Maine, in a quiet little village, not far from the railway station. My husband was dead, and no child was with me; so I lived by myself in a little house of only three rooms, and supported myself by taking in sewing.

One Christmas eve I had cleared away my supper and was sitting as close as I could to my fire, for it was a bitter cold night and the wind howled fearfully. I was knitting as fast as I could and thinking Santa Claus would have a cold and dreary ride; and then I began to think of my childhood, and how I used to hang up my stocking, before I ever learned to knit one, and then I fell to dozing.

When I opened my eyes, I saw, sitting at the other side of the stove, one of the most forlorn and forsaken looking lads I ever saw before or since.

At first, I thought I had been dreaming, so I pinched myself and rubbed my eyes, but the little fellow still sat there—as still as he could sit for shivering.

Then he said: "Please ma'am, have you found any Christmas? I have lost mine, and didn't know but it might have strayed down here. Where I came from they were talking about keeping Christmas and giving Christmas presents, and when I asked them if I was going to have any, they shook their heads and said I was one of the 'towns' poor,' and there wasn't any such things for such as me. Old Joe said he guessed my Christmas was lost, and the best thing I could do was to set off and find it, and so I came. Are you going to keep Christmas here, and shall you have any Christmas presents?"

I told the little fellow I could keep Christmas in my heart, that I was too poor to make any presents, and I did not expect to receive any; for those who receive, must also give.

Then the little fellow said: "You shall have a present for I will give you me. I will give you myself and I'll come and live along with you, and I'll help you do everything you want me to."

I smiled to myself in thinking of his odd ideas, and the queer Christmas gift he had brought me; but I told him that, though I thought he was very generous, I could not accept his present because I was poor, and had all I could do to take care of myself. And what did that queer little specimen of humanity say to me, but just this: "Aunt Polly says it isn't right to refuse presents, and everything comes into use sometime; but maybe I ain't useful for anything, or wanted by anybody."

There was a plaintiveness in the boy's speech and tone that touched me to the heart. Then, somehow, the words of the song, "In some way or other, the Lord will provide" came to my mind; and I saw I had always been provided, and hadn't I been promised that I always would be? Little had I done, and little could I do for the Master; but He had said "Even as ye have done it unto the least of these, my brethren, ye have done it unto me." Wasn't this waif by my fireside "one of the least," and couldn't I be doing a little for the Master by becoming one of his missionaries? yes, I thought, if no one else wanted the lad I would keep him and he



might cheer up my lonely life; and his coming might bring me "good luck," as the saying runs.

"If I tell you a story, you will tell one. Is that a bargain?" said the boy. Yes, I said it was a bargain, and he told his first. I cannot repeat it all, but it seems he had been living on the town farm and old Joe and Aunt Polly were paupers, and the lad, whose name was Ned Marlstone, had run away to find his lost Christmas.

What should I tell him? Well, he wanted to know something about Christmas and "what it meant." I told him the sweet story that has been told over a thousand years; of the blessed Child born in the lowly manger, of His dear and holy Mother, of His noble life and works, and His noble death.

The lad listened with wrapt attention; and then I told him of the old-time custom of hanging up the stocking on Christmas eve and hunting for treasures in them on Christmas morning.

And when my waif went to bed that night he hung up both of his "footings," and the next morning he found an orange in one and an apple in the other; so he felt sure Santa Claus had not forgotten him.

But the next morning came the overseers of the Town Farm, as I thought they would, in search of my Christmas gift, for the lad was not missed until then, and the only way they could trace him was to call at every house.

The boy was loth to leave me and I was loth to have him go, so the select men agreed that the lad should stay with me until able to look out for himself, and I was to have a sufficient sum for his board and clothing; thus his coming would be a help to me, and the people thought I would be better company for him than Old Joe or Aunt Polly. So he stayed. Well, I can't say it was all smooth sailing for the lad had his temper and he was always getting into some mischief and keeping me in a worry lest he should be brought to me dead, or maimed for life; for he was a courageous fellow and did not seem to know what fear was. With all his daring and mischievousness he had a true, good and honest heart and I learned to love him

as though he were my own son.

So time went on until it was the eighth Christmas eve from the one on which he had presented himself to me, and he was about sixteen years of age. The December of that year had been very stormy, and the wind had blown the snow into the roads and filled them up to such an extent that the cars were often snow-bound and had to move along with the greatest caution. The engine panted and puffed and would advance a little way and have to stop. The snow plow was in constant use, and traveling was by no means pleasant. This Christmas eve the train due at our station was very late, and Ned was down at the depot watching for its coming and I was all alone, just as I was on that other memorable Christmas eve. And I was thinking of the bygone days, just as I was then, and did not hear the cars come, nor had I any idea of their arrival, until brought back from my wanderings, by the opening of the door, and the boy coming in bearing a young lady in his arms. Before I could ask what it all meant the lad had a seat by the fire for the young lady, and then he enlightened me as to the cause of his actions. The lady was on her way to New Hampshire, but was tired out with so long a journey, and not feeling as though she could continue on her travels, until the next day, asked the conductor if there was not some place where she could remain until the next morning; he asked the station master; and he, in his turn, spoke to my boy, as he knew mine was the nearest house to the station. Ned said he would bring the lady home in his arms for she looked as light as a feather. The lady did not seem to object to such a novel way of being conveyed, and there she was. Although she was quite tired, she was quite talkative and communicative. She said her father was a lawyer and they had not been a great while in this country; in fact, her father had come over from England on some law business and she had accompanied him.

"I really cannot say what all this business is," said the young lady, "but I know it worries poor papa dreadfully, and he says it is just like chasing a Jack o' Lantern,



## SEED-TIME AND HARVEST.

and he fears he will have to return to England with his mission unaccomplished. I believe it is a will case and he is hunting up a lost heir, who would be but a mere boy, and will fall heir to many thousands of dollars if he can be found. It seems odd, where so many are endeavoring to find thousands and never gain them, that thousands should be seeking some one to claim them. As well as I can remember there was a couple in England who were the only children of parents who were only children. The first couple I mention had but one daughter, and she, marrying one whom they did not wish her to, was cast off, and she and her husband came to America where a boy was born. The grandfather of the lad died a few years since, and before he passed away, made a new will, forgave his daughter and left his entire property to her and her child or children. Father has learned that the daughter and her husband are dead, but the boy I have mentioned, survived them. It is for this lad father is searching, to take him to England and find a suitable guardian to take care of him until he shall have become of age to care for himself. But, as I have said, the lad cannot be found and he may be dead. And he had one of the most singular names I ever heard of. Let me think if I can remember it. I do call it to mind now because it was so odd. It was Marlstone, and the father's name was Edward."

I scarcely know what I said or did; but Ned jumped up from his seat, exclaiming as he did so, "Why, my name is Edward Marlston!"

And then I told the lady how Ned had come to my house so many Christmas eves ago—straight from the poor farm—saying that he had lost his Christmas and wanted to find it, and how the little fellow gave himself to me as a Christmas present and I had accepted him and brought him up as my own child.

The lady's father was telegraphed to and he came the next day and was able to join the severed chain by finding the missing links and establishing the boy's identity and proving him to be the missing heir.

Of course, Ned had to go to England but he would not go without me, and insisted that I should be his guardian; and he said he was going to give me half his fortune because I had taken him when he was poor and forsaken. The administrators of the estate did very handsomely by me and I always had a home with Ned, who never failed to make me handsome presents. My boy grew up and married; but still my home was with him, and this is his house; and there is his step on the stairs, for my boy Ned is your own father, as you must have guessed as soon as I mentioned his name.

There, darlings, there is grandma's Christmas eve story, and that was my Christmas gift and what came of it. But if you do not hurry to bed it will be "Merry Christmas" before you get a wink of sleep.

### LOST.

*Inscribed to E.—*

THE crisis has come and the last hope has perished.

The hope that illumined life's long weary years,  
Tho' carefully-nurtured and tenderly cherished,  
Hath brought for a harvest but sorrow and tears.

Out from the waste of years, fled forever;  
A phantom arises in cerements clad:  
In its hands are life's flowers that will bloom again  
never,

Which speak of a soul that is darkened and sad.

'Mid the rough storms of earth they have withered  
and faded

From a life left alone in a wild desert land:  
They were all it possessed, yet were spurned and  
upbraided,

Left,—smitten to die by a merciless hand.

Ah! oft in my day dreams I see thee before me.  
As once, I have seen thee in years fled away.

All the old love returns, and the spell will steal  
o'er me,

With which thou didst find me to crush and betray.

Only a life full of sorrow and sadness,  
Only a heart with its happiness slain:  
That thou mayst drink of earth's pleasures and  
gladness,

Forgetting the heart that is burdened with pain.

Yet oft, in the years that are coming and going,  
My sad heart will dwell on the dream that is fled;  
And at last when life's sands are forever outwearing  
ing.

It will cling as the cerements cling to the dead.

ROSELINE.



### Editorial Jottings.

THE PRINCIPLE of enriching the soil by keeping it shaded, is not, we fear, as well understood as it should be. It has long been noticed that soil which has long been shaded by a building will upon its removal produce a rank growth of vegetation. And strawberry growers tell us that their plantations which are heavily mulched in the autumn, with leaves and straw which shade the soil for one season, show unmistakable evidence of increased fertilization when again plowed and planted. We know a level-headed farmer who practices sowing all his fallow lands with rye as soon as crops are cleared, so they will not remain bare and unshaded through portions of the year between his crops. The growing rye is turned under in spring and as in the case of mulch above cited, helps of itself to enrich the soil, aside from its great benefit as a shade. In our opinion, one of the main benefits to be derived from buckwheat and clover, which are known to enrich the soil, is to be attributed to their perfect and continued shade. But a very hard and compact soil cannot absorb much nitrogen or ammonia from the atmosphere and water which come in contact with them although shaded. So land lying idle should remain loose. This explains why fall plowing is to be recommended. It loosens up the soil to some depth and the top coating serves as a covering or shade to the under portion which will in consequence grow richer the longer it lies. Keep your fallow lands plowed or covered continually.

SOMETIMES when our hens get loose and scratch up a row of early peas, or eat the Marblehead sweet corn just before it is fit to bring upon the table, we get exceedingly wroth and proclaim a solemn edict that henceforth no fowl shall set foot upon that farm. But when we figure up in December that from twenty Brown Leg-horns wintered, we have within the year received \$40.47 for eggs sold, besides a liberal allowance of eggs and chicken pot-pie upon the table through the year, we conclude that we will let some of them re-

main another year, particularly as the ten barrels of dry hen manure saved at \$1.00 per barrel will nearly pay for all the food purchased for them. And we guess we can afford to fix up their quarters a little and make them clean and comfortable for winter. Have you fixed yours up yet? Let's not forget it.

THE PRACTICE of applying stable manure to fruit trees and bushes as a mulch is to be highly recommended. Horse stable litter is preferred for this purpose, and autumn is the best time to apply it. If such a coating be spread around as far as the roots extend, the soluble parts will be carried down by the rains and melting snows of winter, while the remaining portions will retain moisture as a mulch and enrich the soil by shade.

BUCKWHEAT HULLS which most millers run into the stream and waste, are the nicest article imaginable to keep on hand for stable use, for both horses and cows. Speak to your miller to save them for you and you will be surprised to see how sweet and clean a stable can be made by scattering a bushel or more over the floor every day. And then they will help the manure pile greatly. We know this for we have used tons of them in this way.

A GOOD BREED of fowls properly cared for will yield a greater profit than almost any other kind of stock. If arranged so that they can be confined when necessary, and liberated when they can do no mischief they are highly beneficial to the farm and garden. Like all other departments, it is he who takes most pride in what he keeps—and keeps them in the best condition—that gets paid best for his labor.

AS A RULE the stables on most farms are too dark and illy ventilated. Arrange at once to put some good large windows in yours, and see if you do not feel doubly paid within a month for all the expense incurred.

AS SOON AS THE GROUND is frozen cover your strawberry vines with forest leaves and straw. It will keep them back in spring so they will escape late frosts, and thus secure a good crop of nice clean berries.

—Are you going to try for that \$200 prize?



## SEED-TIME AND HARVEST.

### THE RAT CONVENTION.

Catarel—Ratarel—Doggerel.

There was a rat who learned to read and had a thoughtful mind,  
To science and philosophy his tastes were all inclined;  
For novels, news and politics—alike he thought them vain;  
He scorned alike all Brooklyn scandal, Josh Billings and Mark Twain.  
And e'en the last dispatches from the bloody fields of war  
To him were dull and stupid, as the jokes on mother-in-law.  
The books he took delight in were written by wise men, sir,  
For Darwin was his favorite and next was Herbert Spencer;  
Of these he read, on these he thought and pondered o'er the mystery  
Of the struggle for existence in the realms of Natural History;  
How hoofs and claws, and wings and tails by use are slowly gained—  
Races preying on each other, till a balance is maintained;  
The survival of the fittest, and since first the world began,  
The gradual development of monad, monkey, man.  
He pondered deep, he reasoned well, and then he plainly saw  
That rats and mice are rats and mice, but by this simple law,  
'Tis the cats that prey upon them, from youth to hoary age,  
That have checked their onward progress on the rat-and-mousey-stage;  
And could the cats be rid of, again their race might grow—  
As the avalanche develops from the rolling ball of snow.  
So he called a grand convention of the rats and of the mice,  
And, having them assembled, thus he gave them his advice:

"Come hither all ye mice and rats,  
Who spend your lives in fear of cats,  
And listen to a plan I've got  
By which we may exalt our lot;  
Just let us get a little bell  
And tie it round each cat's neck well,  
Then we can hear them when they're coming,  
And run into our holes a humming.  
Then when cats can't catch rats to eat,  
They'll soon find out that grass is sweet.  
When they eat grass they'll lose their claws,  
And hoofs will grow out on their paws;  
Their canine teeth will soon drop out,  
And in their place incisors sprout,  
And when they've eaten it a heap,  
They all will turn to little sheep.  
Then no more cats will be so nice  
For all us little rats and mice;

For, as is well known to you all,  
I's living in holes that keeps us small,  
But then we may take our ease,  
And live about just where we please;  
And 'tis as plain as any figger,  
We all will grow a great deal bigger.  
In f. c. I think there is no reason  
We may not grow a foot each season.  
Thus f. st. acquiring size and strength,  
We'll ea. those mutton cats at length;  
And living but on blood and brains,  
As lions do, we'll all have manes,  
And grow so large and carni-veer-ous,  
That even men themselves will fear us.  
For if, in spite of all the cats,  
There are so many mice and rats;  
'Tis plain we are well fitted for  
Great Nature's internecine war;  
And may, if once we turn the scales,  
Develop to the size of whales.  
So do not doubt me by a look,  
For all is proved by Darwin's book;  
It only needs to bell the cats—  
The rest will follow—bet your hats!"

Then rose an old grandfather rat, who'd listened with attention,  
"Let unanimous approval be the sense of this convention.  
Heaven bless our fellow rodent, who, with super-rat ambition,  
Has solved the problem how we may exalt our low condition,  
And circumvent the feline race, and make it come to pass  
That, like Nebuchadnezzar, they shall all be sent to grass.  
Sure our children in his honor many monuments shall raise,  
And our sculptors sculp his image, and our poets sing his praise.  
And children shall be named for him, like sands along the seas—  
More numerous than George Washington's, and likewise Robert Lee's.  
Meanwhile the highest glory that a mortal rat can ask,  
To put the bells upon the cats shall be his valiant task."  
Then the learned rat looked thoughtful, but a wild hurrah arose  
To ratify this pleasant scheme of vengeance on their foes;  
When, midst their loud rejoicings, alas it must be told,  
A cat sprung in upon them, like a wolf upon the fold.  
Fast for their holes they scampered, but ah! she was too quick;  
She lit upon that learned rat like many an hundred brick.  
Oh, fearful catastrophe! oh, fatal turn of luck!  
His fate was as the Juney-bugs, o'ertaken by the duck.  
Then the hall was deserted, in the twinkling of an eye,  
And the rat and mouse convention stood adjourned "sine die."



### Now for the Farmers' Club.

During the active spring, summer and autumn campaigns of ruralists our talk has chiefly been of practical matters, such as pertained to field, orchard and garden operations. But the most important labors of the farmer and gardener are nearly finished for the season, and other themes demand attention. Having devoted special attention to the cultivation and improvement of the SOIL, let us discuss what may be done to improve and store the MIND during the approaching season of hibernation and comparative leisure,

The season for organizing and operating Farmers' Clubs, Institutes, and the like, is rapidly approaching, and we wish thus early to call the attention of our readers to the importance and usefulness of such organizations. Every populous "rural district" should have an association of soil culturists and regularly hold weekly or fortnightly meetings for discussion, the reading of essays on practical subjects and occasional lectures. Such a meeting is a good place to receive or impart valuable information, and, indeed, the best place for many cultivators. Discussion by intelligent, practical men is sure to bring out useful facts—to separate the wheat from the chaff—and the more grain and fruit growers, breeders, graziers, dairymen, etc., participate in it the better will their respective home interests be promoted. Facts, obtained by careful experiment and close observation are what farmers and horticulturists want, and the best way to elicit them is by comparing experiences in field, orchard, dairy, stable and garden, and free discussion thereupon.

As we once said, while urging this subject upon the readers of another journal, the organization of a club is an easy and very simple matter. Let a dozen live, progressive cultivators (or even a less number) meet and elect the necessary officers. The adoption of a few plain rules of guidance and the election of a president, secretary and treasurer will be sufficient for an organization, though it may be well to appoint an executive and a few special committees. The subjects for discussion should

be those of most interest to members. If in a grain growing section let topics pertaining to the culture of the cereals have precedence—and if fruit growing or dairying be the leading interest preference should be given accordingly, though a variety of subjects may be discussed and written upon during the season of leisure and hibernation through which frequent meetings will naturally be held.

If the membership of the club is numerous, it will be desirous to hold the meetings in a public hall or school house, where a sizable audience can be accommodated without inconvenience—for, if the proceedings prove as interesting as they should, many non-members will soon become regular attendants. But if a club has but a few members, or is in a comparatively sparse settled neighborhood, it may be well to hold the meetings at the houses of members. Some of the best clubs in the country have adopted the plan of meeting at the homes of the various members—first examining the premises (crops, stock, buildings, fences, etc.) if the weather is favorable, and then proceeding to business. In some notable instances farmers' wives have become members and met at the same time, they discussing household affairs while their husbands talked upon the culture of crops, care of stock and other matters pertaining to farming operations. But whatever the plan adopted, organize a club and endeavor to make it a success—beneficial to yourself and those of your fellow-citizens engaged in the most useful of all pursuits.—*Tribune and Farmer.*

Man was created a little lower than the angels, and he generally stays there.

When you have had Catarrh long enough, just send 10c. to Dr. R. C. SYKES, 181 Monroe St. Chicago, for his "True Theory of Catarrh."

The Vassar-College girls don't care for the new elevator lately introduced there. They prefer to slide down the banisters.

Have you seen Reed's advertisement on page 25; Look at it and order at once and you will not regret it. He will do just as he says he will. Send you 12 choice Concord vines for \$1.00. A good crop, second year. Order now.

—DID YOU EVER see a more liberal Prize Offer on so low a priced paper, as that on second cover page?



### Our Best Cabbage Seeds.

#### Where and How they are Produced.

SOME NOTES ON A WONDERFUL COUNTRY.

THE HOLLAND OF AMERICA.

A GLANCE at the map of the United States will show in the extreme north-western corner of the Union what might be called an immense irregular inland sea, known as Puget Sound. The extreme length of this sheet of water is about one hundred and forty miles, lying as it does between the 47th and 49th degrees of north latitude. The city of Olympia, the capital of the Territory of Washington, is situated at the head of this Sound on the 47th parallel, and other rapidly growing towns are beautifully located along the shores, the town of Whatcom being at the other end nearly on the 49th parallel, which was the extreme northern boundry of Uncle Sam's dominions before the addition of Alaska.

It would be supposed that this country, being nearly 300 miles farther north than the extreme northern portion of either the states of New York or Vermont, would be so nearly an unending winter as to be very undesirable as a place of abode for man. But such is not the case. The Ocean currents which strike that coast from the south-west, constantly bring with them a mild climatic influence which effectually destroys even the rigors of a Pennsylvania winter; and as far inland as the Cascade Range the country is protected to a wonderful degree, the ground seldom freezing, snow seldom falling in quantity sufficient to whiten the landscape. And yet in plain view stands old Mt. Baker whose summit perpetually glistens with ice and snow; and a direct line of travel eastward through Montana, Dakota and Minnesota would encounter high mountainous lands, where old winter reigns supreme for a great portion of the year.

A person is apt to look upon and judge a new country with a view to its adaptability to his own particular calling, and we suppose by reason of our great interest in gardening and seed-growing we were led some fifteen years ago to ascertain the fact that no other section in the Union was so well adapted to the perfect development of

vegetables and the formation of grain and seed crops as the Puget Sound country.

The Sound being immediately connected with the ocean is affected by the daily ebb and flow of the ocean tides, and as may be well known, the tide rises several feet higher in winter than it does in summer. This leaves along the borders of the Sound extensive tracts which are annually covered with several feet of water in high tide in winter, but which are only level mud flats in summer. But the impregnation of salts from the sea water in winter is destructive to the vegetation unless kept off for a couple of years and thus the land be allowed to freshen.

Some twelve years ago a brother of the writer, in company with some neighboring friends, decided to locate in this favored spot and engage in the growing of grain and seeds. The risks and expense of such an undertaking may be imagined when it is stated that it was necessary not only to leave a pleasant eastern home and bid good bye to the friendships and acquaintances of a life time, but to travel continuously over three thousand miles of railroad to San Francisco, from whence an ocean voyage of 500 miles brought the explorers to their promised land which they found very sparsely settled save by the native Indians who lead quiet lazy lives and depend principally upon the fish and game, with which the country abounds, for their sustenance. Away from the immediate vicinity of the Sound the whole country is very heavily wooded with some of the largest and finest timber to be found in the world. Millions of acres of these timber lands are good, but it will require many years to clear them up and dispose of the immense cedar stumps. So the tide lands are first taken as they are free from stick or stone and very rich, but to make them available, it was necessary to throw up several miles of dykes with a spade or shovel which, of course, is a long and laborious job. They are required to be about six feet in height and of strength enough to withstand the pressure of old ocean and keep the salt water from overflowing the land at high tide. When this great task was accomplished extensive farms were



## SEED-TIME AND HARVEST.

secured as level as a floor, formed of the rich deposits of ages, which, when allowed to freshen, produce without fertilization of any kind the largest crops of grain and seeds of all kinds, of any spot in the Union we think. The oat is a favorite crop, and 100-acre fields have been known to yield from 75 to 100 bushels per acre. Vegetables of all kinds here revel in perfection. It is the home of the cabbage. The best strains of seed from the Eastern states produce handsomer heads than we ever saw in the East, and seed produced here from these perfect heads has given a remarkable satisfaction all over the Union. So far, it has been impossible for us to supply the demand for this seed, but we hope to be able to do so in the near future. Cauliflower and cauliflower seeds develop to a wonderful degree of perfection, and we believe the first attempt to supply the market with American grown cauliflower seeds will be from this region. It is generally admitted that it is preferable to have vegetable seeds of all kinds grown farther north than where they are used if possible; and cabbage seeds particularly, do not show a healthy growth if planted much farther north than the country in which they are acclimated. The products of the Puget Sound country are free from the evil climatic influence common to most imported seeds, but it can never hope to compete in prices with imported products on account of the scarcity of labor, common farm hands readily commanding from \$45 to \$50 per month and found. So if the seeds here produced, ultimately drive foreign and Eastern stocks from the market it will necessarily be on account of their actual superiority. All retail orders will this season be filled from our Puget Sound stock, of all varieties which we have grown there, and we particularly desire that all who grow cabbages shall test them.

### ANOTHER PRIZE CONTEST! The New "Golden Prize" Bean.

Have you any idea how many beans can be produced in one season from planting one bean of our most productive sorts? We do not know but we are going to find

out. We have recently come into possession of a new bush bean which is of the wax or butter bean order which we have reason to believe is one of the most productive sorts in cultivation. It originated in Canada by a careful experimenter who produced it by crossing one of the best dwarf wax varieties with the Large White Marrowfat, thus improving the latter in quality and the former in productiveness. It is selected as the most promising from a number of different crosses and we have reason to believe is a decided acquisition. It produces a large thrifty bush; pods very large and bright yellow in color. The beans are large and flattened on the sides. Color grayish white with bright orange eye, in appearance entirely distinct from any other variety. The pods are nearly stringless and unexcelled as a snap sort for cooking green, and yet the large size and productiveness makes them an excellent sort for cooking when ripe. Our stock is so limited that we did not intend offering them before another year, but to ascertain how many beans can be grown from one we have decided to put them in packets of six beans each, which will be sold to all applicants at 20 cents per package, and to the person who produces the most beans, by actual count, from planting one package, will be awarded and paid a cash prize amounting to as many cents as he produces beans. The winner only will be required to send his product to us to prove the number, and to make affidavit, if required, that but one package was planted. No one is to send his product in to us until we call for it, which will not be before we have decided it to be the greatest yield and entitled to the prize. Competition closes and all reports must be in hand on November 1, 1884. The new variety will be found at the head of bush beans in our seed list. The larger the yield of the successful competitor the larger will be his prize. How many do you think you could grow from six beans planted? In extenuation of the "claim" of charging 20 cents for six beans we will say that we paid \$25 in cash for the few pounds which we have in stock, and as the prize winners may take Twenty-five or Fifty dollars more, it is not probable that we shall make much of a speculation out of it, but we do hope to demonstrate to all who try it that it is the best and most productive bush bean yet offered.

Look at Reed's advertisement of Concord Grapes on page 25. Every reader of SEED-TIME AND HARVEST should send a trial order for a dozen. You are sure to be pleased. Satisfaction guaranteed.

"How singular!" exclaimed a young school-girl, when she first beheld a cucumber. "I always thought they grew in slices."



## SEED-TIME AND HARVEST.

### Report of an Illinois Fair.

BY M. B. DUMBELL.

Last April I commenced an experiment on a much esteemed vegetable, one that I never saw in the market, except in early spring-time, but owing to the very dry summer we have had I cannot determine if the experiment is a success or not, and as I do not wish to publish anything to mislead, it will have to go over till another time. With this I send you a paper containing the list of those who drew premiums at the Mercer County Fair, Ill. For over a dozen years I have been attending that Fair and must say it was the best I have attended. The weather was beautiful and propitious, never more so, the display of animals and articles generally could not be excelled, and such a crowd as attended that Fair is seldom seen. Certainly the officers of the Fair have every encouragement. What interested me the most was the show of vegetables. I have seen better in some varieties, but taken as a whole none so good. This year has been exceptionally good for small grains, and the show of cereals was very fine. A few weeks ago it was said that the frost had greatly damaged the corn, but no one would think so after looking at the corn at the Fair. The show of white and yellow field corn never was better. Next in importance was the potatoes, indeed, I might have mentioned the potatoes first, for they made much the largest display, nearly all the kinds enumerated in "SEED-TIME AND HARVEST" were there and many others. One thing I noticed particularly, nearly all the potatoes run to length, while a dozen years ago they were mostly round. At that time the Peachblow was the staple, for some reason now there are few grown. I only saw one lot of that kind at the Fair. There was a collection of seedling potatoes of this year's growth which interested me very much, the more so, as I have been experimenting this year and last with very good results. The show of tomatoes was also very fine and, I think, a much larger display than I ever saw before. It looked as though a greater interest was being

taken with that vegetable. As I said before, some things were not as good as I have seen, notably the cabbage. There were six as fine heads of cabbage as I ever saw, it was a marvel to me how they could be so good, with the very hot and dry summer; it must be they were "Henderson's Early;" they were awarded the premium and well deserved it. There were some onions shown, but with the exception of just one, I did not see them; usually there are bushels at this Fair. All about this region is noted for growing large and fine onions; there is a good market for them at Davenport, Iowa, on the Mississippi River, where they are shipped South by the boat-load. There was only one display of celery, and the only thing it was remarkable for was that it was blanched with drain tile; under no circumstances could it have been blanched with dry soil as well as it was. These tiles can be used twice in a season; they are a great saving of time, trouble, and hard work, and should be considered in the nature of tools and well taken care of, and if they do not pay the first season they will in time. There was something happened at the Fair, which I think will not be likely to occur again. One of the premiums offered was for the "Best and greatest variety of vegetables from one garden, not less than ten varieties." There was just one collection, and such rubbish I never saw at any Fair before. I will try and enumerate them: Two cabbages, one about as large as a medium sized Early Favorite, the other the size of my closed hand; a water melon and musk melon, both of them nubbins; three ears of sweet corn, not worth a second look; two parsnips, ditto; one carrot as large as a long radish; two small turnip radishes, one white the other pale pink, and both looked as hollow as a drum; two small cucumbers as yellow as green; one onion, evidently a top onion, about the size of a large hickory nut; a shallow cigar box full of very indifferent tomatoes; about half a teacupful of shelled bush-beans, and one or two other things too insignificant to mention, as indeed was the whole collection altogether. I suppose there were "ten varieties."



Most assuredly I would not have given twenty-five cents for the whole, yet the blue card was attached to that collection, and the exhibitor would get four dollars. Such an exhibit as that does not do a fair amount of good, especially among strangers for they are apt to carry the impression that it is a poor country for vegetables; on the contrary it is a very good one. There was also a most beautiful display of vegetables, said to have been raised on the sod, from Dakota Territory. There were none better at the fair. Nevertheless, let those go to Dakota who will; I am as far North as I wish to be.

### Experimental Grape Culture.

The *Western Farm Journal* gives in a late number an account of a visit of its editor to the home of a gentleman in Des Moines, Iowa, who has thirty-eight of the newer varieties of grapes in fruit. He says: Among the light-colored grapes we found fine specimens of the *Martha*, *Eva*, *Elvira*, *Lady Washington*, *Duchess*, *Charlotte* and *Victoria*. Of the red grapes there were the *Ionia*, *Rogers Nos. 3, 4 and 15*; *Perkins* and *Walter*. Among the dark grapes that showed fine samples of fruit were the *Concord*, *Eumelan*, *Vergennes*, *Cottage*, *Cranio*, *Marino*, *Jamesville*, *Eureka*, *Worden* and a seedling of his own raising which we named the *Blatchley* in honor of this enthusiastic and successful grape-grower who has shown by his patient and intelligent care and cultivation that more than fifty varieties of grapes can be successfully grown in this part of Iowa. Of all of his dark or red grapes, MR. BLATCHLEY gives the preference to the quality of the *Ionia*. His vines of this most excellent variety were loaded with large well-filled clusters. One of his own seedling from the *Concord*, the *Marino*, he esteems very highly, and we found it loaded down with very fine clusters of excellent grapes. *Janesville* is esteemed for its extreme hardiness, and is ten days earlier than *Concord*, the fruit of fair quality. The *Eva* is one of his choicest white grapes, and is delicious. *Rogers No. 4* was a very good grape. The *Eureka* is valued as a late keeper, and can be preserved fresh

all winter. MR. BLATCHLEY lays down all of his vines in the Fall and protects them with a light covering of coarse litter of half-rotted hay or straw. He believes that even the hardiest varieties are benefitted by this winter protection.

### Vines from Cuttings.

Most varieties of grapes, currants, gooseberries, quinces, and other shrubs and vines are easily propagated from cuttings, but to be successful with them it is necessary to begin in the fall, that they may be properly calloused before spring. Prepare cuttings of last year's wood about ten inches in length. Let the lower end be cut off smoothly, but below the bud. Cut the top end about an inch above the bud. Grape cuttings on this plan should contain three or four buds. Tie the cutting in bundles about three inches in diameter, with a small wire that will not rot in the dirt. Make the butt end of the bundle even, and tie tightly. Heel in the cuttings in dry, mellow ground, with the butt end of the bundles up. Cover the piles from four to six inches deep with mellow soil; cut down smoothly and give a good drenching of water. Then cover the bed with manure, fresh from the stable, deep enough to prevent freezing in winter. On the approach of warm weather, when the frost has left the ground and night frosts have nearly ceased, take off the manure, but do not disturb the earth or the cuttings. After the other spring work, examine your bed, and when the buds are well swollen, so that by careful handling to prevent damage, set out the cuttings in a fine mellow soil; set them so deep that the top bud will be just above the surface, and so that a mulch of straw or sawdust will hide it. This treatment of cuttings should begin early in the fall. The setting should be done from a pail of tepid water.

Have we mentioned, in these humorous items, *why* handcuffs are like guide-books? They are made for two wrists—that's why.

—ALL COMPETITORS are sure of good pay and a small club may take a good cash prize. See second cover page.



## Puzzle Garnerings.

EDITED BY FRANK S. FINN.

—O—

All Communications intended for this Department should be addressed to Frank S. Finn, Box 50, Bryant's Pond, Maine.

Answers and original contributions solicited from all.

### ANSWERS TO OCTOBER GARNERINGS.

#### 13.—HORTICULTURIST.

14.—O-RLO-P  
R-EZ-I-A  
C-RES-S  
H-OIS-T  
A-DIE-U  
R-IVE-R  
D-RIV-E

15.—P I V O T  
N I T E R  
M I N O R  
S E D A N  
T E N O R

#### 16.—MENTALLY.

17. 1. TROCAR, CARROT.  
2. HORNET, THORNL.  
3. FRINGE, FINGER.

18—C H A T T E R  
H Y B R I D  
A B B I E  
T R I P  
T I E  
E D  
R

### DECEMBER GARNERINGS.

#### No. 26. NUMERICAL ENIGMA.

The answer, composed of 15 letters, is a good proverb for every one.

The 11, 13, 10, 8 is a kind of fruit.

The 1, 11, 5, 14, 7 is a charm.

The 4, 10, 15, 6 is a partition.

The 2, 12, 7 is a bird.

The 3, 9 is a pronoun.

JEANE.

#### No. 27. DOUBLE ACROSTIC.

(Words of six letters.)

1. Habitual practice. 2. A book of the Bible. 3. Negligent. 4. To devise something new. 5. A small cannon. 6. A royal seat. 7. An animal. 8. A masculine name. 9. To endeavor.

Primals; A season of festivity.

Finals: A plant much in use during that season.

GASPARD RAYNOR.

#### No. 28. CENTRAL ACROSTIC.

(Words of five letters.)

1. A flowering shrub. 2. A shrub. 3. A plain. 4. A species of grain. 5. An herb. 6. A tree. 7. A tree. 8. A tree.

Centrals; An herb.

ADELAIDE.

#### No. 29. CHARADE.

Shaded by *total's* dismal frown,

Often from his high aims cast down, —

Though long he clambered up;

Until, quite driven to despair,

He sought to drown each coming care  
Within the ruby cup.

A man, one Christmas eve, left home,  
Intent with many friends to roam,  
And drink to wild delight.  
Returning first some trifling things,  
The frosty air, fresh voices brings,  
Breaking the quiet night.

Peering within the room, he sees  
His children 'round their mother's knees,  
And hears their prattling speech,  
As they petition God to send—  
As one requests a trusted friend—  
Some longed-for toy to each.

Their simple faith his heart makes soft;  
Changing his purpose, as aloft  
He registers a vow,  
He does not go, his friends to meet,  
And Christmas bells sound far more sweet  
Than any second now.

His children's joy, at early morn,  
He watches with new feelings born  
Within his beating heart;  
As gifts from Santa Claus they praise,  
And mentally for strength he prays  
To play a manly part.

BYRNEHC.

#### No. 30. CROSS WORD ENIGMA.

In ocean, not in billow;  
In hazel, not in willow;  
In starting, not in follow;  
In solid, not in hollow;  
In present, not in morrow;  
In trouble, not in sorrow;  
In meddle, not in hinder;  
In charcoal, not in cinder;  
In supping, not in eating;  
Whole, is a time for joyful greeting,

N. A. BRYANT.

#### No. 31. ANAGRAMS.

1. O, bustle more! 2. Sing Ranger. 3. Our men's bed. 4. Peter meant M.

SISIE SUMMERS.

#### ANSWERS in February number.

Solutions to this month's puzzles must be received before January 14.

PRIZES.—For best list of answers we offer "In a Nutshell," by Dr. Dio Lewis.

For second best list a certificate good for Fifty Cents worth of Flower or Vegetable seeds. Should there be more than one best or second best list, the prizes will have to be awarded by lot.

Complete lists of answers to the October garnerings were received from Bertha M. Holgate, Volney P. Johnson, Lulu Butler, Byrnehc, Crystal, Lead Pencil, N. L. Van Deusen, Bob Bangs and Annie Mation.

Partial lists were received from J. B. Strieby, Wm. Brown, Mary Turner, Edgar Sager, Undine, C. A. W., J. P. Strieby, Annie F. Weeks, Jeane, O. Mission and Minnie Lemoyne.



# SEED-TIME AND HARVEST.

All names in Italics answered No. 16.

Prizes were won as follows. Best list: *Crystal*.  
Second best list: Volney P. Johnson. No. 16: *Luna*  
Butler.

## OUR COZY CORNER.

So many seemed to be entitled to the October prizes the only just way we could think of was to put the names of those entitled to them in a box, shuffle them well and award the prizes to the first three names drawn forth.

*B. M. H.*'s puzzles are excellent and one would have appeared in this number had not the puzzle portion of the "Garnerings" been made up before their reception.—*Lamp*'s contributions are very bright and one will shine in our January issue.—*Lead Pencil*: The article is good; but we don't want to grind the axe too fine. Please to send something with a different subject and answer.—*Crystal*: The answer to your puzzle is the greatest puzzle of all, and it seems to need an explanation. Will you please to explain it?—*C. A. W.*: Quite a novel production. You will see it in type soon.—*M. T.*: If an answer fills the conditions of the puzzle, although it may not be the author's word, we deem it correct. Cives and cress filled conditions.—*I. E. F.*: Glad the cards proved satisfactory.—*Jeane*: Did not the book please you or did you show a generous spirit in not wishing to bear away too many prizes? We deem that to be a most excellent trait in your character.—*E. Sager*: If only one answer had been received to No. 16, the prize would have been sent to that solver; but, as there were so many solutions sent, the book had to be awarded by lot. Although we knew whose answer reached us first we could not tell who was the first solver; for the magazine cannot reach every subscriber the same day, nor are mail facilities equal all over the country. We award prizes in the fairest way we can think of.

To the 50,000 and more readers of *Seed-Time and Harvest* we wish a "Merry Christmas," with all the joys and blessings accompanying that holy season.

## A New York Street Scene.

A swarthy faced Italian was grinding from a wheezy hand-organ "The Watch on the Rhine." A crowd of children had collected about the corner of East Broadway and Market street, where the hand-organist stood, for, attached to a chain, was a little monkey which was climbing to the second story of a house where a penny awaited him. With much difficulty did the little animal mount the shutter and scramble to the window, but he was still beyond the reach of the money. The Italian glared savagely at the chattering monkey as he looked with an expression almost human at his rough master. It was no use; he could not reach the penny, and with evident fear the little

fellow, dressed in a red cap, clung to the blind. The savage pauper cursed his faithful companion, who in turn shook his little head as if to say, "Master, I can't reach the penny."

With a vicious pull on the chain the monkey was torn from his place of safety, and falling struck the pavement heavily.

The little fellow's upturned eyes saw no one but the cruel man who was bending over him. With a slight tremble the poor thing's limbs became rigid, a faint gasp and the monkey was dead.

He had failed to get one penny and the avaricious master had killed him. As the children drew back from the scene the Italian tore two pennies from the fixed grasp of his dead slave, then muttering "Deda monka no good," dropped the little body in the gutter and turned down the side street. —*N. Y. World*.

## Sense and Nonsense.

MOSTLY NONSENSE.

"A penny for your thoughts, madam," said a gentleman to a pretty girl. "They are not worth a farthing, sir. I was thinking of you."

"Boots blacked inside," said Snodgrass, reading a Brattle-street sign the other day. "Goodness gracious! Do they want to spoil a fellow's stocking?"

There is an inscription on a tombstone at La Point, Lake Superior, which reads as follows: "John Smith, accidentally shot as a mark of affection by his only brother."

The taxes are so high in Pittsburg that a man gives up all his real estate to satisfy two-thirds of the amount, and the city gives him six month's extension on the balance.

"John, how does the thermometer stand?" "Against the wall, dad." "I mean how is the mercury?" "Guess it's pretty well; it hasn't complained, lately." "You little rascal, is it colder than yesterday?" "I really don't know, dad; but I'll go out and feel."

HALF THE MONEY sent us on subscriptions will be applied to paying for any premium desired from our list on page 17.



## GOOD TIMES.

IF ever this country enjoyed "good times" it is now. True, occasional failures occur in the business world, but they are the result of improper management or the attempt to do business without capital. We shall always have such men in business, and failures will always transpire accordingly. The health of trade should not be gauged by them. Good times, however, means good crops, money in circulation sufficient for all demands, food of all kinds for man and beast abundant, labor generally employed, fair prices for all staple articles, currency worth one hundred cents on the dollar, and no inflation of values or undue excitement in any line of trade. Do not all these conditions exist now? The firm basis on which the business of this vast country is based, is shown in the fact that a heavy failure in Wall street, the downfall of a large iron establishment, the breaking of a country bank, or even a succession of such financial reverses, only produces a ripple upon the sea of trade, which subsides in a brief time and is all placid again. Prices of produce are not as high as a year ago, but farmers have more of everything to sell, and are in better shape generally. The only drawback lies in the fact that a political campaign is upon us, to last for six weeks or more, and this always interferes with the business of the country to a greater or less extent. Fortunately there is no question of currency involved in the coming election, and no serious disturbance in business will occur, whatever may be the result.—[Ohio Farmer.]

## WHAT NOT TO KILL.

The French Minister of Finance has done a good deal in causing a placard to be posted, which it would be wise for citizens of all countries to have before their eyes. It tells farmers, sportsmen, boys, and others what creatures not to kill, as follows:

The hedgehog lives mostly on mice, small rodents, slugs and grubs—animals hurtful to agriculture. Don't kill the hedge-hog.

The toad is a farm assistant; he destroys twenty to thirty insects per hour. Don't kill the toad.

The mole is continually destroying grubs, larvae, palmer-worms and insects injurious to agriculture. No trace of vegetation is ever found in its stomach. Don't kill the mole.

Birds.—Each department loses several millions annually through insects. Birds are the

only enemies able to contend against them vigorously. They are the great caterpillar killers and agricultural assistants.

Lady-bird never destroy, for they are the best friend of farmers and horticulturists, and their presence upon aphid ridden plants is beneficial.

## FROM THE EGG TO THE TOAD

There are some facts connected with the natural history of the toad which may not be familiar to some of our younger readers. The female toad, when the period of incubation approaches completion, seeks water, where she deposits her spawn in shallow places winding the spiral beads of eggs around the grass, where it is left to hatch. In a few days—the time depending on the temperature of the water—the eggs hatch, not a toad, but a tadpole, breathing like a fish through gills, and living entirely in water as fish do.

This tadpole grows very rapidly and in ten or twelve days the transformation to the toad commences by the appearance of the two hind legs; next comes the fore-legs and the little fellow presents the curious appearance of a toad with a tail. The horny beak with which the tadpole's mouth is armed now drops off and the toad's mouth takes its place. Gradually the tail is absorbed and a diminutive toad leaves the water, breathes like an animal through nostrils instead of gills, and now may be drowned in water while the tadpole would have been drowned in air. The little toad now starts out to make his living by catching the insects which trouble us so much by destroying our vegetables and flowers. We hope the boys who read this will never wantonly kill toads again.—[J. S. N., in Southern World.]

## NOTES AND GLEANINGS.

THE WASHINGTON MONUMENT.—This is now becoming one of the wonders of the seat of government, though for years it was the laughing stock of the country. It is now some 350 odd feet high; when completed it will be 555 feet high, over-topping the famous cathedral at Cologne by 43 feet. The foundations were finished in 1880, and it will be ready for dedication, it is hoped, by the next 4th of July. It will cost altogether \$1,100,000. At the base it is 55 feet on each of its four sides. Above the 500th foot each side of the cone is 35 feet. The lower part is of granite, with a marble facing. The upper



portion on the cone will be entirely of white marble. Some of the slabs have been sent from foreign countries. One is from Greece, another from Turkey, and others from China and Siam. Other stones again are gifts from several states in the Union. We should not begrudge the money spent on memorials of our great men. They honor alike the monument builders and noble men whose services they commemorate. This structure will be one of the first things to impress the traveler with the splendor of our capital. It is situated upon the bank of the Potomac, from which the great white marble shaft will pierce the clouds, and will be outlined against the blue of the sky.—[From Demorest's Monthly for September.

**SPIRITS OF TURPENTINE.**—This is one of the most valuable articles in a family, and when it has once obtained a foothold in a house it is really a necessity, and could illy be dispensed with. Its medical qualities are very numerous; for burns it is a quick application, and gives immediate relief; for blisters on the hand, it is of pricelese value, searing down the skin, and preventing soreness; for corns on the toes, it is useful, and good for rheumatism and sore throats, and is the quickest remedy for convulsions or fits. Then it is a sure preventive against moths; by just dropping a trifle in the bottom of drawers, chests and cupboards, it will render the garments secure from injury through the summer. It will keep ants and bugs from closets and store rooms, by putting a few drops in the corners, and upon the shelves; it is sure destruction to bed-bngs, and will effectually drive them away from their haunts, if thoroughly applied to the joints of the bedstead in the spring cleaning time, and it injures neither furniture nor clothing; its pungent odor is retained a long time, and no family ever ought to be entirely out of a supply, at any time of the year.

**THERE IS NOTHING** that adds more to the attractiveness of a farm house than a nice row of shade trees. They add to the cash value of the farm, and every farmer should spare time enough in the spring to set out a number of these trees in front of his dwelling, if he has not already done so. In former times the elm was considered the best tree for that purpose on account of its beauty and fine shade, but for the farmer there is one great disadvantage in using this tree, and it should never be set within 100 feet of cultivated land, on account of the great length to which its roots extend. It is almost impossible to plow in such land. The rock maple is the tree that should be set out by the farmer.

It is as beautiful as the elm and equally as good for shade. Its roots extend deeper into the earth and cause no trouble to cultivation when planted within a few feet of the wall. If enough are planted in the highway adjoining your land they make a handy sugar orchard, and will furnish sugar for the family the year round.—[A. F. Emerson, Rockingham County, N. H.

**I AM PROMPTED** by my own experience to say something about cabbage as a farm crop. More valuable vegetable food for our domestic animals can be raised per acre in cabbage than in any other crop. My cows have for two years had from July 15 to October 1, twice a day, all the cabbage they will eat. The result is as delicious milk as mortal ever tasted and fully one-third more in quantity. But the best use for cabbage is for hog feed. I have at present four hogs. Their food is simply cabbage twice a day and four quarts of wheat middlings mixed with a pail and a half of water. To the doubting farmers who ask, Do your hogs thrive on that feed? let me say, Come and see. If such an one could see how the pigs take hold of a tender head of cabbage his doubts would be soon dispelled. Having tried the matter for two years I affirm that I can produce a better growth of pork from cabbage than from wheat middlings.—[A. G. E., Hamden County, Mass.

**A WRITER** in an exchange says: "I discovered many years ago that wood could be made to last longer than iron in the ground, but thought the process so simple that it was not well to make a stir about it. I would as soon have poplar or basswood posts. I have taken out basswood posts after having been set seven years that were as sound when taken out as when first put in the ground. Time and weather seemed to have no effect upon them. The posts can be prepared for less than two cents apiece. This is the recipe: Take boiled linseed oil and stir in pulverized charcoal to the consistency of paint. Put a coat of this over the timber, and there is not a man that will live to see it rot.

**THE LARGEST** harvest of cucumbers in this part of the country is upon Long Island. The average yield is 120,000 cucumbers to the acre. Some of the land under especially high cultivation produces as high as 175,000 cucumbers to the acre.

**THE RURAL NEW-YORKER** says that among some forty watermelons tested this season the BOSS has been found decidedly the best in quality. It is admitted to be the same as sent out in their seed distribution as "Perfection." We believe it is one of the finest varieties yet introduced.



## Seed-Time and Harvest.

AN ILLUSTRATED MONTHLY RURAL MAGAZINE.

Conducted by ISAAC F. TILLINGHAST.

FOR EVERY ONE WHO PLANTS A SEED  
OR TILLS A PLANT.

SUBSCRIPTION 50 CENTS PER YEAR.

ADVERTISING RATES, 30 CENTS PER LINE.

Entered at the post-office as second class matter.

VOL IV., NO. XII. WHOLE NO., XXVI.  
LA PLUME, LACKAWANNA CO., PA.. DECEMBER, 1883.

**THE CIRCULATION OF THIS ISSUE  
IS 50 400 COPIES.**

SOME JOURNALS compute their "circulation" by calculating that there are five or six persons in each family in which a copy goes. We compute ours by multiplying the number of reams of paper, actually printed, 105, by the number of sheets in a ream, 480, and call the product, 50,400, our circulation. We expect that that \$500 stimulant will increase these figures before spring. It ought to, hadn't it?

### TO EDITORS AND PUBLISHERS.

We will send SEED-TIME AND HARVEST regularly for one year to any Editor or Publisher in America who will give it a notice (favorable or otherwise) and send a marked copy of his paper containing the same.

IT IS JUST AS WE EXPECTED. As soon as advertisers find out that we are really giving a larger circulation for the money than other journals, they crowd our columns fearfully. Many real good things we had prepared for this number had to be laid over to accommodate advertisers who would not wait. We beg our readers' indulgence this time, and promise if the advertising pressure continues to increase, we will reduce it by increasing our advertising rates. We shall aim to give 20 pages of reading matter, and but twelve of advertisements through the year.

Our Retail Catalogue of "Reliable Seeds at Honest Prices," for 1884, will be issued in January and sent to all of our old customers without application. All others desiring it may obtain it free by making postal card application. It will contain descriptions and illustrations of many of the newer Vegetables and Flowers, with complete price list of all the several hundred varieties of Vegetable and Flower Seeds which we supply. If not on our books as a customer of 1883, you should send for this catalogue.

**Special Club Offers.** By special arrangement with the publishers of the following excellent papers, we are enabled to make remarkably low club offers, as follows:

For **One Dollar** we will send SEED-TIME AND HARVEST, the *Farm and Garden*, the *Western Plowman* and *Green's Fruit Grower*, each for one year. At regular prices they amount to \$2.00. Or, we will send the *New York Weekly Tribune*, with any one of the above, for \$1.25; with any two for \$1.50; any three for \$1.75, or, with all four for \$2.00, which has for years been the price of the *Tribune* alone.

### SPECIAL OFFER to SEED-BUYERS.

Being willing to adopt any possible plan to induce early orders, I will offer to fill all orders amounting to \$10, or over, which are received by me before January 1, accompanied by cash in full; at 20 per cent. discount from quotations given in this issue. Or, cash orders sent within same limit of time, amounting to \$25, or over, may be figured at 25 per cent. discount, and will, as usual, be forwarded by mail or express at my expense. These offers are so liberal that it will pay any one who has not the money ready to borrow it and pay ten per cent. interest, if necessary, for a few months, rather than to wait until planting time when full prices will have to be paid.

These discounts may apply to and include the 5 lb. offer on Onion Seed, (see seed list) thus bringing Reliable Onion Seeds at 75 cents per pound net on a \$25 order before January 1. If you cannot use \$10 or \$25 worth of seeds it will pay you to get some neighbors to join you and send your orders together.

**Getting up a Club for SEED-TIME AND HARVEST** is just like raising a crop of wheat or potatoes. The man who goes at it in a half-hearted sort of way may get back all it costs him, and a little more, but when he measures up the crop he will see that if he had spent twice as much labor in the undertaking it would have returned him at least four times as much profit. This principle is sure to work in a geometrical ratio. If one dollar spent brings back one, two dollars invested towards the same accomplishment will surely return eight. So if you succeed in getting ten names you can afford to strive much harder to make it twenty, and then twenty more will surely be worth much more to you than the first twenty were. See if it isn't so when the day of reckoning comes.



## OUR PREMIUMS TO CLUB-GETTERS.

NONE of our readers will fail to notice the unprecedented offers which are fully explained on the inside cover pages of this magazine. Although we shall endeavor to make SEED-TIME AND HARVEST well worth Fifty cents alone, we give each subscriber who pays that sum a seed premium worth one-half the money paid. This is so liberal that it may be hard to believe that we then give the club-getter a premium worth one-half the money sent again! But such is the fact. All who send us clubs are at liberty to select from the following list of premiums any article desired to the amount of one-half the money sent us for subscriptions at fifty cents each. Understand, club agents will be allowed to take a cash commission of 10 cents each (when at least two names are sent) or, remit the full amount of 50 cents each and apply 25 cents for each name sent to the purchase of any of these premiums. They cannot take both a cash commission and a premium. The \$500 cash prizes are above and independent of all premiums and commissions. The persons who send the largest lists by March 1st, regardless of terms of subscription or premiums received, get the cash prizes. So all will get well paid, and those who exert themselves most will receive the greatest reward.

The premiums are as follows:

1. One Grand Square Piano, manufactured by Horace Waters & Co., New York, Style 53, Catalogue price \$725. The finest instrument made..... \$125
2. One Horace Waters & Co's., Popular Home Organ, Style 82., a superb instrument. Catalogue price at Factory ... \$210
3. One Estey Organ, Brattleboro, Vt., Style 2, (see catalogue) Price..... \$90
4. One Royal St. John Sewing Machine, No. 6, richly veneered, and machine silver plated; has six drawers, drop leaf and cover. An elegant machine. Factory price \$75
5. One Wheeler & Wilson Improved Sewing Machine, latest style, price.... \$50
6. One Silver Hunting Case Watch, \$20
7. One Elegant Quarto Family Bible, latest improved edition. Publishers cash price..... \$10

8. One Ladies' Premium Watch, stem winder and stem setter; half open face, a durable time-keeper, price ..... \$10
9. Gents Premium Watch, stem winding and stem setting, open face, white metal case and Swiss movement. As good for practical use as a \$25 watch, price.. \$8.00
10. Six Best Silver Plated Tablespoons, price..... \$7.00
11. Six Best Silver Plated Teaspoons, price..... \$3.00
12. "In a Nutshell," the latest work of Dr. Dio Lewis, price.... \$1 00
13. New American Dictionary... \$1.00
14. Premium Pocket Magnifier.... .75
15. "Farm and Garden", a Philadelphia monthly, very cheap at..... .50
16. "Tillinghast's Manual" a 100-paged work on Gardening, by the editor of SEED-TIME AND HARVEST, price reduced to.. .25

—◆—

During the next few months over Two Hundred Thousand copies of SEED-TIME AND HARVEST will be printed and mailed to the most independent and progressive farmers and gardeners in all sections of the Union. As advertisements are still inserted at the old rate of \$3.60 per inch for each insertion, less 25 per cent. on four, or 33¼ per cent. on six consecutive insertions, this will afford a rare chance to secure

*The Best Bargain*

recently offered in advertising.

If you have nothing of any length which you feel sure it will pay you to place with us, you should at least order your address in our Business Directory under an appropriate heading. The charge for this is but Two Dollars for a whole year, (including a copy of the magazine) and in coming before the eyes of but a single one among the Twenty times Ten Thousand who will receive it may pay you if that one happens to want what you have for sale.

Remember always to send "copy" by the 20th of the month preceding the date of issue. Address,

**SEED-TIME AND HARVEST,  
La Plume, Lack'a Co., Pa.**



Now, my friend, would you feel just right to read the announcement in our April number that Tom Jones received the capital prize of \$200, for a club of forty or fifty subscribers, when you had made no effort to get any? We believe that the largest single club ever yet received by us consisted of but forty-five names. You can do better than that, can't you? And you will go to work and do it and thus show your appreciation of our labors, won't you? Yes, we knew you would or we would not have made such an offer, for we were anxious that you should have it, and you shall if you will do your part

—Every subscriber gets a premium under our prize offers, and the prizes are a FREE GIFT.

WE DESIRE to call the attention of our readers, especially those who desire to purchase plants, machinery, &c., to our advertising columns where they will find the cards of many first-class firms whom it is a pleasure to recommend for fair dealing. Should you want anything in their line write to them before ordering elsewhere, and in so doing, it may be an advantage to all concerned if you will say you saw their advertisement in SEED-TIME AND HARVEST.

Granges or other societies wishing a Splendid Organ may select any style from the catalogue of the Estey Organ Company, of Brattleboro, Vt., (no finer instruments are made) and apply one-half the money sent us for subscriptions toward the payment of it. Thus 300 names and \$180 sent us will secure 360 copies of SEED-TIME AND HARVEST for one year, give each 25 cents worth of seeds as premium, equaling \$90 in seeds, and pay for Estey Organ, Style 2, worth \$90, and would probably secure a \$200 cash prize, which would put into the treasury \$20 more than would have to be paid out. Isn't this worth looking into?

IF YOU RECEIVE this magazine without having subscribed for it, you may suppose that it is a sample copy sent you in the hope that you will endeavor to form a club at your post office. If you cannot do this, will you not kindly hand it to some one who will make us a good club-agent? It presents a chance which is rarely offered.

—\$200 is worth working for. It don't grow on every bush.

## Advertisements.

**MATRIMONIAL** Paper 10cts. a copy by mail. Address, Pub. MIRROR, Wellesley, Mass. \*

**OUR ILLUSTRATED JOURNAL**—A full and complete history of the Poland-China Hog, sent free on application. Stock of all ages and conditions for sale. Address J. & C. STRAWN, Newark, O. 3

**The 6th and 7th BOOKS of Moses,** Albertus Magnus, the Hohman book, (in English or German,) and many other Rare, Scarce and Curious books. Send for a free catalogue. **J. G. Stauffer, PALMYRA, PA.**

**OVER** The Garden Wall, and 16 other fine Songs, with words and Music, 100 Choice Selections for Autographs, 25 Sure and Easy Ways of Making Money at Home. All free for 10 cts. **PRATT & CO.,** Southville, Mass. 10-1

**COAL HILL JERSEY HERD.**  
(A. J. C. C. H. R.)

Animals of exceptional beauty and merit, at moderate prices. Address, **JNO. G. BIGHAM, M. D.,** 10-13pd **Millersburg, Ohio.**

**A** **SPLENDID** Walnut Stereoscope and 12 assorted views by mail for 75 cents. *Agents wanted.* **SMITH BROS., Waverly, N. Y.**

## Farmers, Attention!

I am a farmer myself, and know what every farmer needs. I have a reliable article used by every one who works out doors. Send 25 cents to me for sample worth dollars to you. **H. B. PHILLIPS,** 12- **Box 44, Tolland, Conn.**

**80 SHEETS** Best Writing Paper in blotter by mail for 20 cents. **SMITH BROS., Waverly, N. Y.**

## NGIS A TNIAP NAC ENO YNA.

**A SMART BOY** can make from \$2.00 to \$3.00 a day Painting Signs with our perfected patterns; an intelligent man can double these figures. House Painters add \$100.00 to \$600.00 a year to their income. Make plain or shaded letters any size. One alphabet complete, by mail \$2.50. 5 alphabets, different styles, \$7.60 by mail, \$7.00 by Express. Good Agents wanted. **A. M. MORLAN & CO.,** 12- **Salem, Ohio.**

**SHARP GOULD'S Razor Edge BUTCHER KNIVES.**  
Best in the World.

Finished in razor order, and sent by Mail (Postpaid) or \$1, each. References, Testimonials, Price List, Free. Do not fail to send us your order. Address **J. H. GOULD, Man'fr, Atwater, Ohio,** or **WM. C. CUNNING, P. M., Linaville, O.,** 1-12 Mention Seed-Time and Harvest.

**CHALLENGE LABOR-SAVING LAUNDRY SOAP**

is the best now on the market and can be made by any one at home at a cost of only **TWO CENTS A POUND.** Testimonial.—“My wife gave it a fair trial and she praises it sky high. She finds it washes better and cleaner than Dobbins', Davis' Prize Soap or Siddall's with just one-third the time and trouble.” **L. L. Rees, Cambria City, Pa.** The formula and family right to make and use Challenge Soap will be sent postpaid for \$1.00. (Copyrighted April 19, 1879.) Try it and be convinced. Address all orders to **J. E. RUE, Jr., P. O. Box 4, LITTLETON, N. C.** 0-12 Mention Seed-Time and Harvest.



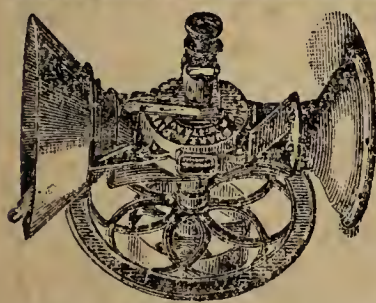
## Advertisements.

We aim to publish the advertisements of trustworthy parties only and such as we feel assured will deal fairly with their customers. In writing to them please mention **SEED-TIME AND HARVEST.**

**AGENTS WANTED** to get orders for Enlarging and Painting Pictures. **M. O SMITH,** Waverly, N. Y.

## 70 M 3yr Apple Trees

Also Cherry, Pear, Plum, Peach and Ornamental Trees, Evergreens, Shrubs, Vines and Bulbs. **10,000 RUSSIAN MULBERRIES**, (mailing size, 25c each.) A life experience enables us to grow everything offered. Send for Price List. Address, **H. W. WILLIAMS,** 12-2 1701, Perry Street, Peoria, Ill.



**QUAKER CITY**  
Double Reduction  
**GRINDING MILL**  
For Corn and Cob,  
Feed and Table Meal.  
SEND FOR CIRCULAR.  
**A. W. Straub & Co.**  
Philadelphia, Pa

**DANIEL BOONE,**  
**ATLANTIC,**  
**JERSEY QUEEN,**  
**JAMES VICK,**  
Prince of Berries,  
**MANCHESTER.**  
**SENECA QUEEN.**

## NEW STRAWBERRIES

A new Illustrated Descriptive Catalogue of these and many other New and Choice varieties of **SMALL FRUITS,** Trees, Vines, **ROSES,** etc., **FREE!** **H.S. ANDERSON,** Cayuga Lake Nurseries, Established 1855. Union Springs N.Y.



**No. 2,** The key to a profitable occupation, is just ready. Prepared by Ten Specialists, and sells on sight to all.

**A Veritable Companion.** "More valuable and real information contained in its 224 pages than in other books ten times its size and cost." **Competent Agents** who apply at once can secure an **unusual chance** on a work that it is a pleasure to

handle. Remit 50c for Sample and Agency or write for full particulars. Address, **R. L. WATKINS,** Publisher, Drawer 1017, Prospect, Ohio.



## THE 'RIGHT SPEEDY' Corn Sheller.

Cheap, Durable and Effective; shells 12 to 14 bushels per hour.

It is the best hand Sheller made and I warrant it for 5 years.

Price \$5, or handsomely nickel-plated, \$6.

**AGENTS WANTED.** If no agent in your vicinity, I will send Sheller, expressage paid, on receipt of price. Send for circular.

**CURTIS GODDARD,** Alliance, Ohio.



**SHORTHAND WRITING** thoroughly taught by mail, or personally. **Good Situations** procured **ALL PUPILS** when competent. **Caligraphs SOLD.** **Stenographers** furnished without charge for my services. Send for free circulars. **W. G. CHAFFEE,** Oswego, N. Y.



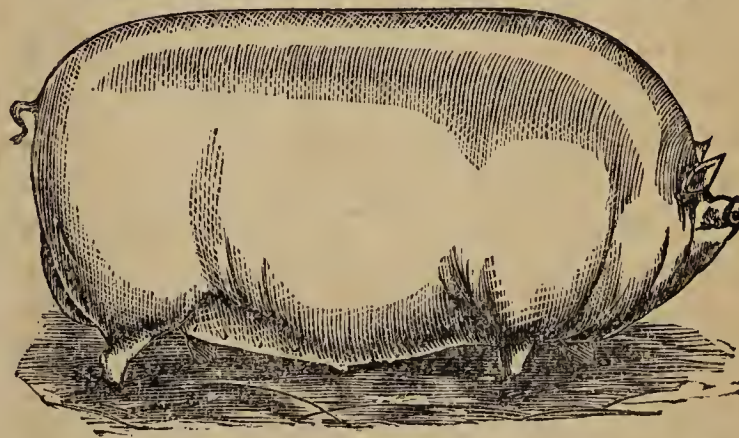
I have over 1500 electrotypes of fruits, flowers, vegetables, ornamental cuts etc., for sale cheap. Illustrated book, showing every cut, 25 cents, (deducted off first order.) Send prints of, or write for any cut that you want. **A. BLANC,** 314 N. 11th St., PHILADELPHIA, PA. Engraver for Florists, Seedsmen and Nurserymen. 16tf

Send for FREE sample Copy of



50 Cents a Year. CLEVELAND, OHIO.

## THE WHITE LANGSHIRE HOG.



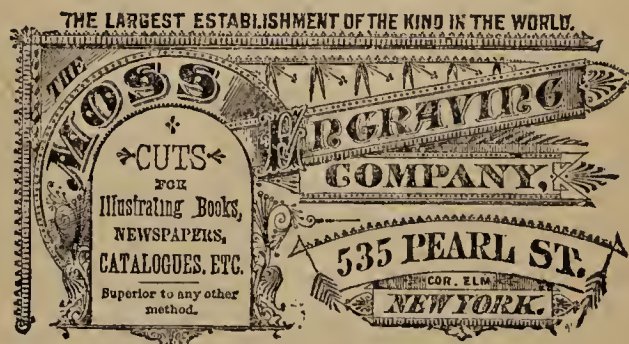
**LANCASHIRE & CHESTER WHITE PIGS FOR SALE.**

—ALSO—

**B. B. Game Chickens.**

Send for Circulars.

Address, **S. O. HAWKINS,** 8tf **Buck's P. O., Col. Co., Ohio.**





## The Best Bargain

**New Seed Potatoes.** All the newer varieties, at 25 cents per pound postpaid by mail if at least \$1.00 worth are taken. List will be given in my catalogue and future numbers of this magazine. Isaac F. Tillinghast, La Plume, Pa.

**Newspapers and Magazines** at lowest club rates. *American Agriculturist*, \$1.00, *Harpers*, \$3.50, *New York Weekly Tribune*, \$1.00, *Country Gentleman*, \$2.00. List of many others sent free. Isaac F. Tillinghast, La Plume, Pa.

**Garden Implements.** All the best Seed Drills, Cultivators, etc., at lowest prices. Write me for what you want and I will give figures by mail. Isaac F. Tillinghast, La Plume, Pa.

### Trial Collections of Reliable Seeds.

No. 1, is seventeen packages of Vegetable Seeds, my selection, a good assortment, by mail for only **50 cents**, worth \$1.25. No. 2, is ten packages of Flower Seeds, my selection, choice varieties, only **25 cents**, worth \$1.00. No. 3, is both the above and this magazine for one year for only **\$1.00**, worth \$3.00. I make these offers in order to get acquainted with you.

Isaac F. Tillinghast, La Plume, Pa.

—You want the Polyopticon for Christmas Eve and don't you forget it. See advertisement,

### BEATTY'S PARLOR ORGANS.

We are reliably informed that Mayor Beatty, of Washington, New Jersey, is manufacturing and shipping a complete organ every five minutes, and that he has over 5,000 constantly in process of manufacture. If you desire to secure his latest limited time price of only \$45.75, you should be sure to order within five days from date of this paper. Read his advertisement, and order without delay.

### MUSIC EVERYWHERE.

That wonderful musical instrument, the ORGANETTA is advertised in this issue. It is the ideal home instrument. You can dance to it; you can sing to it; a mere child can play it; it inculcates a love of music in old and young, and develops and cultivates the ear. The music is perfectly accurate, and the wonderful ORGANETTA will play any tune. At the price, \$3.50, it is within the reach of all. See advertisement of Mass. Organ Co., Boston, Mass.

### THE MARVELLOUS SINGING DOLL.

This charming novelty is advertised in this issue by the Mass. Organ Co., and certainly nothing will appeal more quickly to the children than a Doll that will sing a song. The price is very reasonable, the Doll is a beautiful affair, and the ingenious singing attachment will delight the young and amuse the old. The little girl who finds a Weber Doll "in her stocking" at Christmas time will be the envy of all.

Dear Sir: The beautiful Singing Doll came safely, and far exceeded my expectation of what a Singing Doll could be. Our little folk were charmed with its beauty, but when it sang, their delight was unbounded. It will be to them a thing of beauty and a constant joy. Sincerely yours, Rev. J. B. ABBOTT.

**75 CARDS**, Three names, 20c. 25 one name 10c  
18 packs, \$1. GEM CO., LYNN, Mass.

**SENT FREE TO ALL.**—Illustrated Catalog of Household and Holiday articles. Address,  
\* J. M. MOODY, 88 Lake St., Chicago, Ill.

**STEEL VIOLIN STRINGS.** Sample Set of 4 Fine Steel Violin Strings for 25 cents.  
1211 WARREN MUSIC HOUSE, WARREN, INDIANA.

**AGENTS WANTED** for 2000 Papers and MAGAZINES. Big Pay. Send for Price List and terms to National Newspaper Agency, Quincy, MICH.

### WANTED, A WOMAN

of sense and energy for our business in her locality; middle-aged preferred. Salary \$35 to \$50. References exchanged. GAY BROS. & CO.,  
12 14 Barclay St., N. Y.

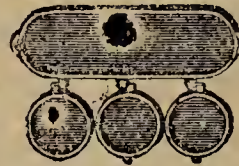
**FRUIT PACKAGES.—ALL KINDS.** Best and Cheapest. Send for free 16 paged Illustrated Catalogue.  
N. D. BATTERSON, Mt. Jewett, Pa.

### Bronze Turkeys,

**PEKIN DUCKS & PLYMOUTH ROCKS** All choice birds and at fair prices. Send for circular and price list. O. D. BELDING,  
12-1 MIDDLETOWN, N. Y.

### DO YOUR OWN PRINTING.

Presses and outfits from \$2.00 to \$500. Over 2000 styles of Type and Cuts, Chromo Cards, etc. Reduced price list free. 100 page catalogue 10c. HOOVER SUPPLY CO., Box 2795, PHILADELPHIA, PA. 12-



**SCHOFIELD'S Pat. CAKE GRIDDLE**, 75 cts. by Express. Send for terms to Agents. We have several other Good Articles for Agents and would be pleased to deal with you. UNION NOVELTY CO.,  
12\* CASTILE, NEW YORK.

### ARTIFICIAL LIMBS.

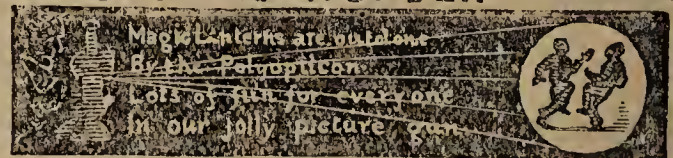


**MARKS' PATENT, with Rubber Hands and Feet.** Thirteen 1st Premiums in succession. The most comfortable, durable and useful. In practical use in all civilized nations. U. S. Gov't M'fg established 1853. Large illustrated pamphlet in English or Spanish sent free, also a new System of Measurements by which limbs can be made and sent to all parts of the world with guaranteed success without requiring the presence of the patient. **INVALID, ROLLING CHAIRS AND CRUTCHES.** A. A. MARKS 691 Broadway, N. Y.

ORDER BY MAIL AT ONCE FOR CHRISTMAS.

### THE POLYOPTICON,

AN OPTICAL WONDER For pleasure and business.



A NEW, original, cheap lantern, for projecting and enlarging photographs, chromo cards, opaque pictures and objects. Works like magic, and delights and mystifies everybody. Send for our full and free descriptive circular M. HILL PUB. CO., 129 East 28th St., New York.

Costs only \$2.50 and \$5; and the **Polyopticon Picture Book** provides 250 pictures for 50 cents—worth \$50 if on glass. Useful to portrait artists and to families wanting evening entertainment. To be had of Toy and Novelty dealers and Opticians. Testimonials and Descriptive Circular free by mail from the manufacturers. MURRAY HILL PUB. CO.,  
12— 129 East 28th St., New York City.



**AGENTS WANTED** For the best selling article now before the public.  
**WE MAIL NO CIRCULARS.**

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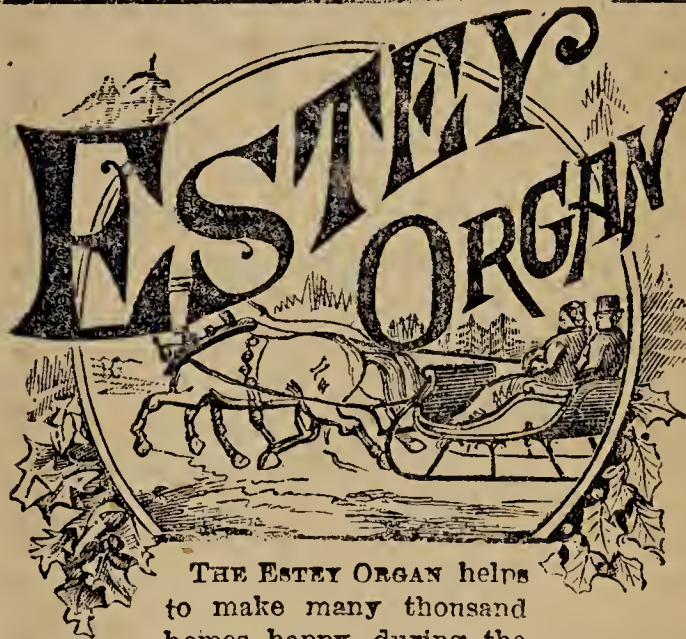
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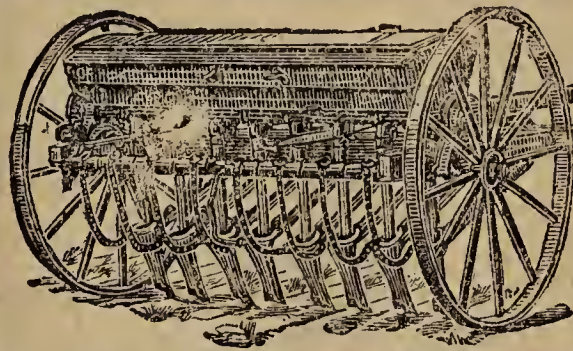
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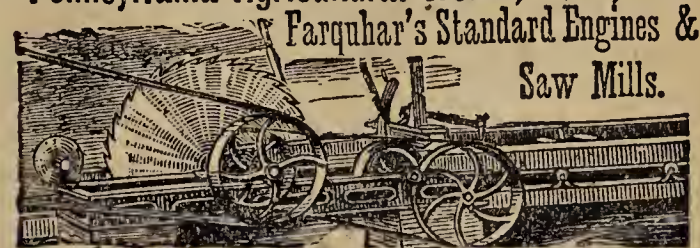
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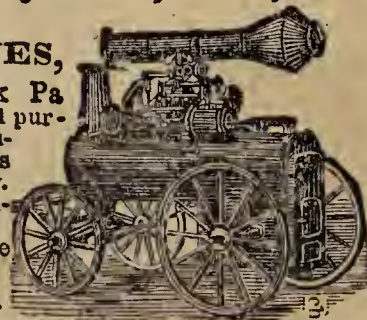


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Vertical Engines, with or without wheels, very convenient, economical and complete in every detail, best and cheapest Vertical in the world.

Fig. 1.



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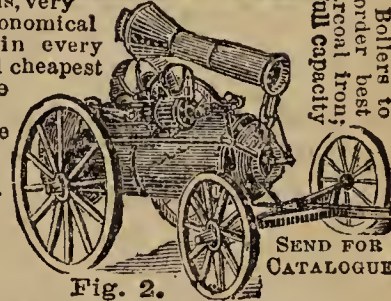


Fig. 2.

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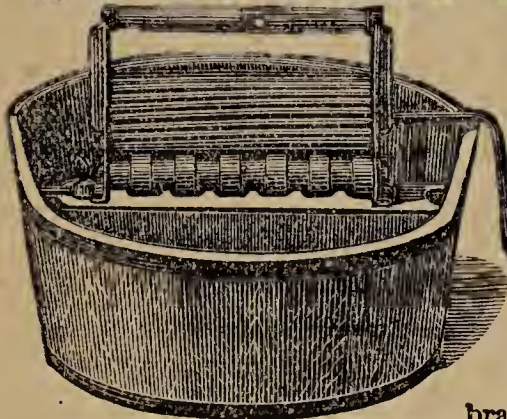
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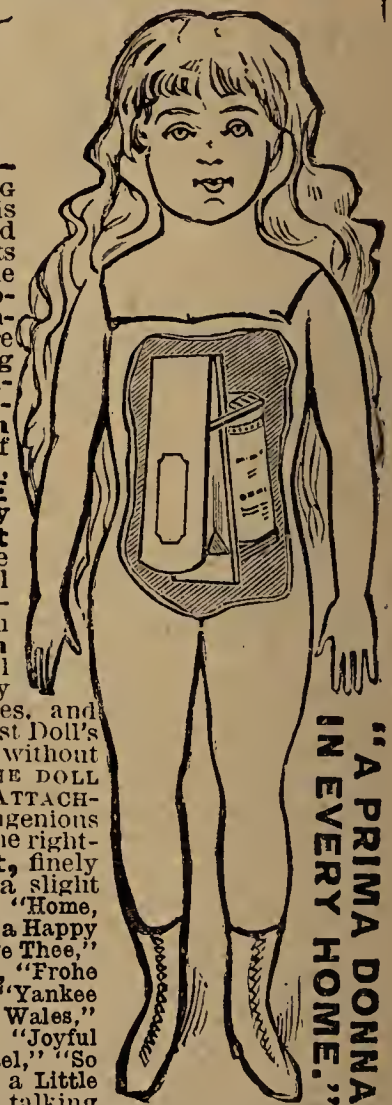
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THE MARVELLOUS WEBBER SINGING DOLL.



A MECHANICAL WONDER.- Last year we first introduced this CHARMING NOVELTY to the children of America, and it is safe to assert that no Toy ever devised attained such immediate popularity. Fully aware of its merit we had thousands of Dolls ready for the Holiday trade, notwithstanding which the supply was exhausted early in December, and hundreds of children who came to our store were disappointed. We have been accumulating stock for the past nine months, and shall endeavor this year to fill all orders the day of receipt. The Doll has been improved in every way since last year. Instead of the stiff German body, as in all imported Dolls, our Doll has an AMERICAN MADE BODY with limber joints, so that it will sit easily and gracefully in any position. The arm is of Finest Kid with separate fingers. These are positively the finest bodies ever put in a Doll. They are of graceful and natural shape, and much better and more expensively made than the best imported bodies which they will outwear many times. The Waxed Heads with long hair are of the best French and German make, made especially for this Doll, and they are as beautiful as life, long hair, beautiful eyes, and delicately tinted cheeks. We consider them the finest Doll's Heads ever imported into this country, and that without the Wonderful Singing Attachment THE DOLL

ALONE IS WELL WORTH THE ENTIRE PRICE. THE SINGING ATTACHMENT is concealed within the body. It is one of the most ingenious inventions of the age. Its shape and location are shown in the right-hand engraving. It is a Perfect Musical Instrument, finely made, not liable to get out of order, and so arranged that a slight pressure causes the Doll to sing one of the following airs: "Home, Sweet Home," "Greenville," "I Want to be an Angel," "There is a Happy Land," "Sweet Bye and Bye," "Bonnie Doon," "How can I Leave Thee," "A, B, C Song," "America," "Thou, Thou reign'st" (German), "Frohe Botschaft" (German), "Tell Aunt Rhoda," "Buy a Broom," "Yankee Doodle," "Coming Thro' the Rye," "God Bless the Prince of Wales," "Grandfather's Clock," "Child's Song," "Last Rose of Summer," "Joyful Message" (German), "Old Folks at Home," "Pop Goes the Weasel," "So many Stars" (German), "Sleep my Child" (German), "When I a Little Bird," "Cradle's Empty," "God Save the Queen." Walking and talking



"A PRIMA DONNA IN EVERY HOME."

Dolls have long been made, but they are expensive, soon out of order, and do not afford the little ones half the pleasure and entertainment that our Wonderful Singing Doll does, which is the Greatest Novelty in CHILDREN'S TOYS EVER PRODUCED, and is the most beautiful and appropriate present that can be made to a child. We can furnish three sizes. No. 1, 22 inches high, price, \$2.75. No. 2, 24 inches high, larger head, price, \$3.25. No. 3, 26 inches high, OUR BEST DOLL, price, \$4.00. These Prices include Boxing. All three sizes are equally perfect and complete, but the larger the Doll the larger the singing attachment, and better head. Sent to any address on receipt of price. Fine Embroidered Chemise, 25c. extra. The Trade Supplied. Address all orders to THE MASSACHUSETTS ORGAN CO., No. 57 Washington St., Boston, Mass., U. S. A. FINE COSTUMES for these dolls with underclothing lace trimmed, finely made, \$3.00 to \$5.00 extra.



# FUN AND MYSTERY

**ENDLESS AMUSEMENT FOR ONLY 30 CENTS.**

songs, etc., ever offered for anything like the money. Our New Budget contains the following:—

- Heller's Conjuring Pack.
- The Mystic Oracle.
- Guide to Flirtation.
- 10 New Evening Games.
- 1 Set Colored Chromo Cards.
- Set of "Hold to Light Cards."
- The Star Puzzle.
- 25 Ways to Get Rich.
- The "13" Puzzle.
- 5 Beautiful Face Pictures.
- Language of Jewels and Flowers.

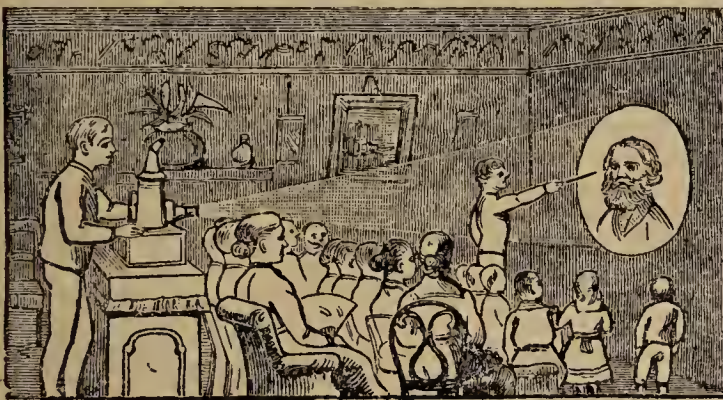
Have you seen it? The greatest collection of Games, Cards, Tricks, Puzzles, AMUSEMENT FOR A WHOLE SEASON for the old or young.

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- 11 Popular Songs with Music.
- 13 New Tricks in Magic.
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- Great \$5.00 Prize Puzzle.
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- Game of Fortune.
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In one or two cent postage stamps. cents. Five for one dollar. Send at once and get the greatest bargain ever offered. Cut out and return this with order to avoid mistake. Send all orders to

By mail post-paid. Two packages for **FIFTY** cents. Five for one dollar. Send at once and get the greatest bargain ever offered. Cut out and return this with order to avoid mistake. Send all orders to **World Manuf'g Co. 122 Nassau Street, New York.**



**A \$5 MAGIC LANTERN For \$2.**

We send this beautiful lantern **COMPLETE**, by mail, post-paid, to any address, for **ONLY \$2.00**. The lenses are the same as used in lanterns that retail for \$10.00. We also send Views, Show-Bills, Lectures, Tickets, and full instructions, enabling any person who buys a lantern to give delightful evening entertainments in churches, school-rooms, and their own homes, charging an admission of 10c., and make from \$10.00 to \$25.00 at each exhibition. More than satisfaction guaranteed or money refunded. Address **G. H. W. BATES & CO., Importers, 106 Sudbury Street, Boston, Mass.**

**ROYAL GOLD! SOLID CASES!**  
**AMERICAN MOVEMENT,**  
**Stem Winding Watch WITH CHAIN**  
**AND CHARM,**  
**For Only \$5.00!!!**

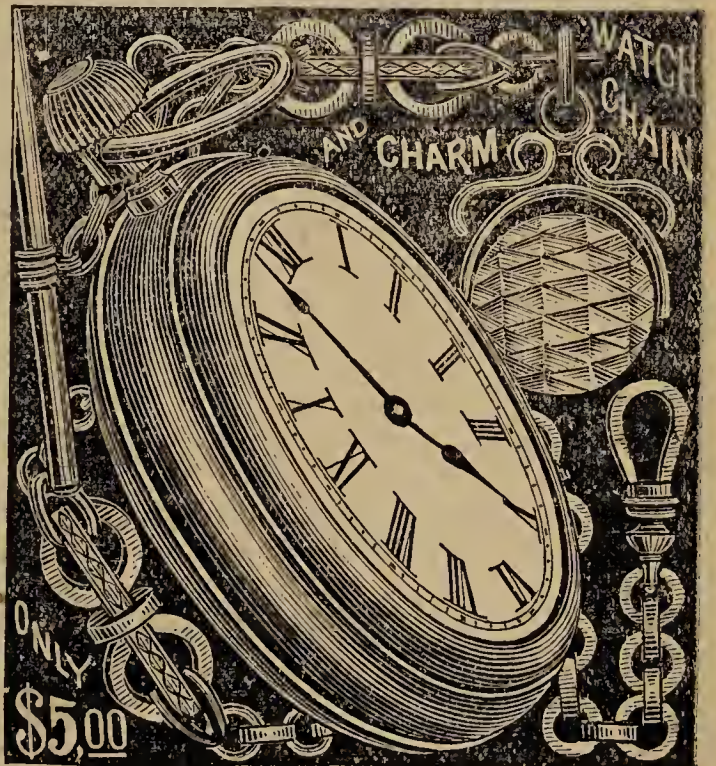
**JEWELERS PUZZLED AND ASTONISHED!!!**

A LIMITED NUMBER of our CELEBRATED AMERICAN MOVEMENT STEM WINDING WATCHES will be sold to the READERS OF THIS PAPER at only \$5.00 each; with each Watch we will also send a beautiful CHAIN and CHARM. We are induced to make this sacrifice knowing that any one ordering a Watch will be so highly pleased that he will continue to be a regular customer, and buy other jewelry from us as shown in Illustrated Catalogue, that we send with each Watch. We guarantee these Watches to be PERFECT TIME-KEEPERS; the works are of AMERICAN MAKE, celebrated for their excellence the world over, and as they are STEM-WINDING they are thoroughly protected from the dirt and dust a key-winding watch is daily exposed. The face is covered with SOLID CUT CRYSTAL the case is finished with ROYAL GOLD, the best substitute for gold ever discovered. It puzzles jewelers to tell that it is not SOLID GOLD, even by the chemical test, as it will STAND ACID and resembles gold very closely. They are suitable for use on RAILROADS, STEAMERS and all other places where ACCURATE TIME is required.

We have received many testimonials from PROFESSIONAL MEN, SCHOOL TEACHERS, MECHANICS, FARMERS, YOUNG MEN and LABORERS, who are using the Watch. In fact we GUARANTEE the WATCH AND WILL REFUND the MONEY if you are not perfectly satisfied after receiving it. Wishing to immediately place one of these valuable watches in every locality in the United States and Canada, we make the following offer.

**OUR GRAND OFFER. ON RECEIPT OF ADVERTISEMENT, we hereby agree to forward by REGISTERED MAIL, to any address, all charges pre-paid, one of the above described Watches, a beautiful Gold Plated Chain with a handsome Crystal Charm attached, all securely packed in a Silk Lined Case, providing your order is received on or before JANUARY 1st, 1884.**

We can only send out a LIMITED NUMBER of these Watches at price named, and in order to protect ourselves from jewelers and speculators ordering in large numbers, we will insert this advertisement in THIS PAPER BUT ONE TIME, hence require you to CUT IT OUT and send to us with your order, that we may know you are



entitled to the benefit of this offer.

Under no circumstances will we send MORE THAN ONE WATCH AT ABOVE PRICE, to any one person, and if others are desired we will furnish them at regular prices. If you do not want a watch yourself, you can sell it to some neighbor and make a handsome profit. Many of our agents sell these watches at from \$15 to \$25. We will mail you Catalogues at the same time we send watch, and feel sure that you will be so HIGHLY PLEASED that you will exhibit Catalogues and Watch to your friends, thus ASSISTING us in selling OTHER GOODS of STANDARD QUALITY which we manufacture from new and original designs, and guarantee to give satisfaction. Our firm is known all over the country, and we always do just as we say we will. We refer you to any Bank or Express Company in this city. If you do not order at once PRESERVE THIS ADVERTISEMENT FOR FUTURE USE. ORDER BEFORE JANUARY 1st. Send Money by Registered Letter, P. O. Money Order, or Draft. Address,

**E. P. TIFFANY & CO., Jewelers, 195 Fulton Street, New York City**

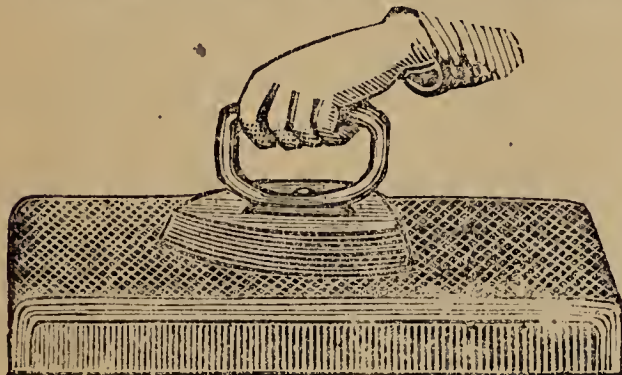


# A Genuine STYLOGRAPHIC PEN Free to All



Everybody has probably heard of the most popular pen ever invented, **The Stylographic**, and are aware of its great superiority over all others, but it has not been adopted for common use outside of large cities, owing to its hitherto high price, never having been sold for less than \$1.00. The Stylographic is a reservoir pen, which, when once filled with ink, will write for days without refilling. It can be carried in the pocket like a pencil, is always ready for use, dispenses with the use of inkstands and pencils altogether, and is the most valuable article of the kind ever invented for the use of man, woman or child, who has any writing to do. The beautiful Stylographic Pen illustrated above is a first-class and perfect working instrument. It consists of a drawn glass tube, which contains the ink, one end of which is brought to a smooth, delicate point for writing, with an aperture finer than the point of a needle, through which the ink always flows freely, while the other is fitted with a rubber cork air valve, and a cushion, giving it the elasticity of a gold pen. This tube is fitted, by means of a telescopic screw, in a beautiful polished nickel case, from which the pen point protrudes, and when not in use the point is protected by a nickel cap, as shown in illustration. This pen is in every way superior to the best gold pencil, as it writes with ink. It is something that everybody needs and should have, and we will now tell you how you can secure it, *free of cost!* Being the publisher of the old-established and well-known family paper, **The Cricket on the Hearth**, and wishing to obtain for it 100,000 new subscribers during the next few months, we now make the following unprecedented offer: *Upon receipt of Twenty-six Cents in postage stamps, we will send The Cricket on the Hearth for Three Months, and to every subscriber we will also send FREE and post-paid, the Genuine Stylographic Pen, as above described.* **THE CRICKET ON THE HEARTH** is a mammoth 16-page, 64-column illustrated paper, filled with charming Serial and Short Stories, Sketches, Poems, Useful Knowledge, Puzzles, Games and Stories for the Young, Wit and Humor, and everything to amuse, entertain and instruct the whole family. That this is a great bargain no one can deny, and the offer is made simply to introduce our paper. Take advantage of it at once. Remember, the Stylographic Pen, which has heretofore been sold at \$1.00, is now given *absolutely free* to every one sending for a three months' subscription to the paper. For \$1.00 we will send five subscriptions and five Pens. *Satisfaction guaranteed or money refunded.* As to our reliability, we refer to any publisher in New York. Address, **S. H. MOORE, Publisher, No. 8 Park Place, New York.**

## YANKEE FLAT IRON POLISHER & KNIFE SHARPENER COMBINED.



**As a Flat Iron Polisher.**

This Polisher has no equal in the world for removing starch, rust or roughness of any kind from face of the Iron, and imparting a mirror-like polish to surface.

Use the Polisher, and your Irons will not stick: you will not soil or smut your linen, and it will save you hours of hard work at the ironing-table. Frequent use of the Polisher will make 1 Flat-Irons as smooth as the most expensive Polishing Irons.

As a KNIFE SHARPENER, it is superior to anything yet invented both for the keenness of the edge it imparts and the quickness of the process.

USE THE POLISHER AND HAVE DONE WITH STICKY IRONS AND DULL KNIVES.

Buy it, Try it, and tell your neighbors of it!

Each "Pad" consists of six separate Polishers so adjusted that each can be removed when worn out; presenting a new one beneath.

State and Local Agents Wanted.

PRICE.—One Yankee Flat-Iron Polisher and Knife Sharpener Combined, will be mailed free to any address on receipt of twenty-five cents.

1 dozen cost agents \$1.50. Sells for 3.00—Profit 1.50. 6 doz. cost agents 8.50. Sells for 11.00—Profit, 2.50. 12 doz. cost agents 16.00. Sells for 36.00. Profit 20.00.

WESSON MANUFACTURING CO., Providence, R. I.

## LADIES' FANCY NEEDLE-WORK.

Do Your own Stamping for EMBROIDERY with our STAMPING PATTERNS for Kensington, Arasene, Outline, Braid-work, &c. Easily transferred to any fabric and can be used over a hundred times. Ten full-sized working Patterns of Flowers, corners, borders, outline figures, initial letters, &c., with powder, pad and instructions for Stamping and working, all for 60 cts. post-paid. 15 Patterns, powder and pad, with Ten skeins of Embroidery silk, extra, \$1.00. Outfits for Dealers, \$5 to \$20.

Our book "MANUAL OF NEEDLE-WORK"—100 pages, is a complete guide to all kinds of Embroidery. Gives diagrams and full instructions in KENSINGTON, ARASENE and all the new embroidery stitches, also gives directions for CROCHETING and KNITTING more than fifty useful and ornamental articles, including several handsome patterns of mantel Lambrequins with twine. Teaches how to make Modern Point, Honiton and Macrame Lace; also Rug Making, Tatting, &c., &c. Profusely illustrated. Price 35 Cents post paid; Four for One Dollar.

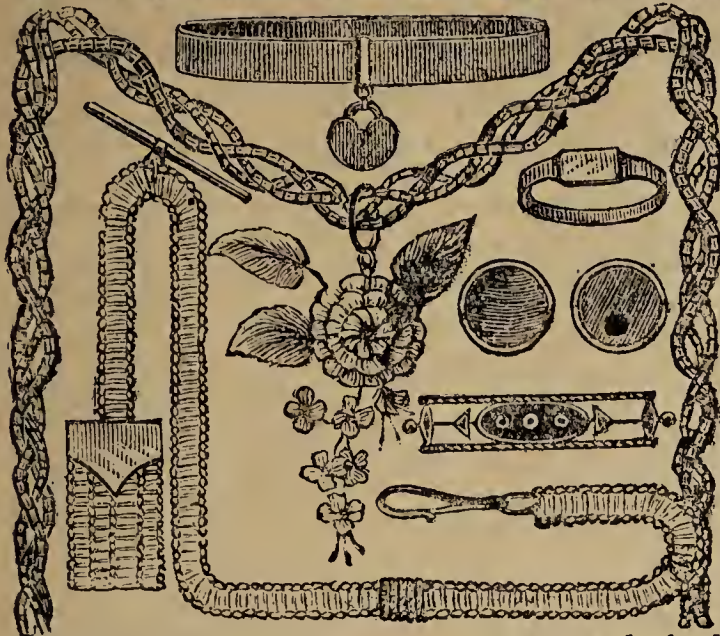
Our book "100 DESIGNS" contains 12 elegant Darned Net Patterns, 50 Designs of Roses, Daisies, Pansies, Ferns, &c.; 5) Corner and Border designs. Price 25 cts. The two books for 50 cts. The two books and 60 cent Outfit, \$1.00. The two books and One Dollar Outfit, \$1.35. Address PATTEN Publishing Co., 47 Barclay St., New York.





# The Victoria Jewel Casket Sent Free to All

AND TWO SPLENDID PAPERS ONE YEAR FOR THE PRICE OF ONE!



The Fireside at Home and The Rural Home Journal are two of the most valuable and interesting papers published. One is a mammoth 16-page, 64-column paper, while the other has eight large pages and 32 columns. THE FIRESIDE AT HOME is a profusely illustrated paper, devoted to literature of the better order, and contains Serial and Short Stories by the best Authors, Poems, Narratives of Travel and Adventure, Biographical Sketches, Wit and Humor, etc. THE RURAL HOME JOURNAL is devoted to Agriculture, Horticulture, Household Economy, Ladies' Fancy-Work, Reading for the Young, the Exposure of Humbugs, etc., and is likewise finely illustrated. These two papers are just what are needed in every family for amusement, entertainment and instruction. The regular subscription price of THE FIRESIDE AT HOME is \$1.00 per year, and that of THE RURAL HOME JOURNAL 50 cents; but, wishing to double our already mammoth circulation of 100,000, and introduce our papers into new homes, we now make the grandest and most liberal offer that has ever been made by any reliable publishing house. Our offer is as follows: Upon receipt of **Only One Dollar**, we will send both **The Fireside at Home** and **The Rural Home Journal** for **One Year**, and we will also send, **Free and post-paid**, **The Victoria Casket of Fine Jewelry for Ladies and Gentlemen**, the contents of which are as follows: 1. **The Golden Floral Necklace**, something entirely new; just imported from Paris, consisting of a beautiful necklace of Florentine beads, in three colors, to which is attached a pendant or charm of fine artificial flowers; this necklace is a beautiful novelty, and something that any lady would take pride in wearing. 2. **Gentlemen's Filigree Vest Chain**. This handsome gent's watch chain is composed of an infinite number of fine gold-plated threads, artistically woven together to form the beautiful pattern. Two dainty tassels add to its beauty, and a handsome Ruby Bracelets, very handsome and stylish, made of the popular material called *Ruby*, with dainty bangle attached; will last a lifetime. 4. **Pair of Onyx Sleeve Buttons**, fine onyx stones in good gold plate settings, very handsome and warranted to wear, and are suitable for lady or gentleman. 5. **Handsome Jet and Gold-Plated Breast-Pin**, of a very beautiful oblong or bar pattern, composed of jet with fine gold-plated mountings and ornamented with pearls; warranted durable. 6. **Ladies' or Gents' Finger Ring**, of imitation carnelian, with gold-plated top or name plate; will last a lifetime. Remember, we send all the articles above described, securely packed in a handsome Casket, by mail, post-paid, also THE FIRESIDE AT HOME and THE RURAL HOME JOURNAL for one year, upon receipt of only one dollar. The contents of the Victoria Jewel Casket are all warranted first-class and genuine, and just as represented—we offer nothing cheap or worthless. We guarantee this to be the finest collection of valuable jewelry ever offered as a premium. You cannot fail to be delighted with the Casket, and also with our valuable and interesting papers. Take advantage of this wonderful bargain now! You may never again have a chance to obtain so much for so little money! We guarantee that you shall receive fully three times the value of money sent, and if you are not perfectly satisfied that you have received such value, we will cheerfully return your money. We are an old-established, well known and reliable house, and cannot afford to do otherwise than please and satisfy all our patrons. For \$5.00 we will send six copies of the two papers for one year and six Victoria Jewel Caskets; therefore, by getting five of your friends to send with you, you will secure your own free. Address,

F. M. LUPTON, Publisher, No. 27 Park Place, New York City

All the leading newspapers of America endorse the publishing house of F. M. Lupton as thoroughly and entirely reliable. Those who fail to take advantage of the above great offer will miss a chance of a lifetime!

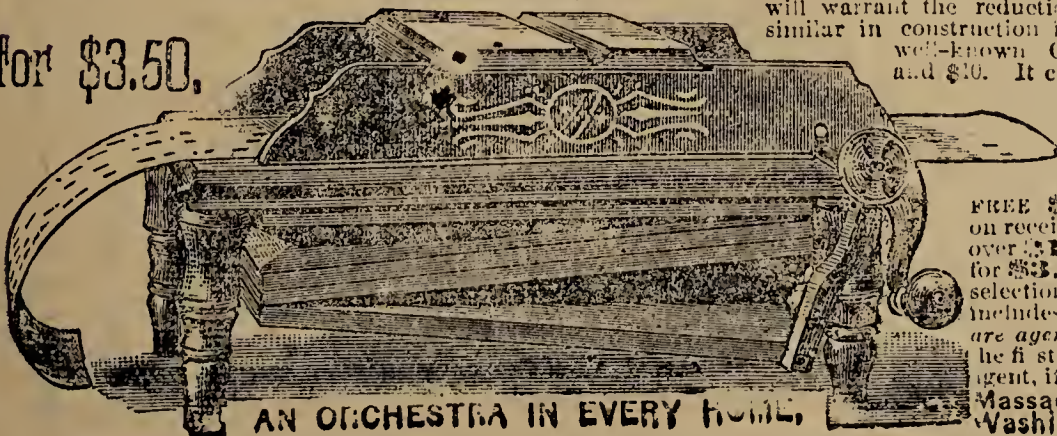


## A MUSICAL INSTRUMENT that will play any tune, and that any one, even a child, can operate.

The Organette has gained such a world-wide reputation, that a lengthy description of it is not necessary. It will be sufficient to say that it is a PERFECT ORGAN that plays mechanically all the sacred airs, popular music, songs, dances, etc. etc. It consists of three strong bellows and set of reeds with EXPRESSION BOX and SWELL. A strip of perforated paper represents the tune, and it is only necessary to place the paper tune in the instrument, as shown in the picture, and turn the handle, which both operates the bellows and propels the paper tune. The perforations in the paper allow the right reeds to sound and a perfect tune is the result, perfect in time, execution, and effect, without the least knowledge of music being required of the performer; even a little child can operate it; as is shown in the picture, a little girl is playing a song and her playmates are singing the words. It is tuned in the key best suited for the human voice to sing by. It interests and entertains both old and young, assists in training the voice and AFFORDS HOURS OF SOCIAL AMUSEMENT. The Organette is perfectly represented by the picture. It is made of solid black walnut, decorated in gilt, and is both handsome and ornamental. The price of similar instruments has hitherto been \$8, and the demand has constantly increased until now there are over 75,000 in use. We are encouraged to place the Organette on the market at this greatly reduced price, believing that the same will warrant the reduction. The Organette, though similar in construction is an improvement upon our well-known Organette, which sells for \$8 and \$10. It contains the same number of reeds and plays the same tunes. Our offer is this: On receipt of \$7 we will send the Organette by express to any address and include FREE \$3.50 worth of music, or on receipt of \$5 we will send it with over \$1.50 worth of music FREE, or for \$3.50 we will send it with such selection of music, FREE. The price includes boxing and packing. These are agent's prices, and we will appoint the first purchaser from any town our agent, if he so desires. Address, The Massachusetts Organ Co., 57 Washington St., Boston, Mass.

\$7

for \$3.50.



AN ORCHESTRA IN EVERY HOME.



## RELIABLE SEEDS

-AT-

## HONEST PRICES.

I wish to call the attention of seed buyers to the following **POINTS** in deciding where to place their orders: All seeds sold by me are **WARRANTED**

**Positively Reliable**, to the extent that I re-fill all orders which prove otherwise. I sell

**Ounces** of the most costly seeds at pound rates. Most firms charge 25 to 60 per cent. more than they admit their seeds are worth, because you don't need a pound!

**PREPAY POSTAGE** on all seeds sold by weight and deliver free to any post office.

**No seeds** are sent out on commission to be returned and sold in after years!

**The expense** of registering letters containing \$1. or more, may be deducted from the bill.

**Seed-Time and Harvest**, an illustrated Monthly Magazine, will be sent one year free to all who purchase from this list to amount of \$2, or \$1.00, if **packets only are taken**.

All **PACKETS**, and all seeds which are quoted by **WEIGHT**, are sent by mail post-paid, at prices quoted. Those quoted by **MEASURE** must be sent by express or freight, at purchasers' expense, or postage added at the rate of 25 cents per quart.

Single quarts by express at peck rates.

## Beans, Bush. Pkt. Lb. Peck.

| Beans, Bush.                 | Pkt. | Lb. | Peck. |
|------------------------------|------|-----|-------|
| Golden Prize Bean,           | 20   |     |       |
| Ivory Pod Wax, white.....    | 10   | 35  | 1.60  |
| Crystal Pod Wax, white.....  | 10   | 35  | 2.00  |
| Ferry's Golden Wax, mottled, | 10   | 35  | 2.00  |
| Early Black Wax.....         | 10   | 35  | 2.00  |
| Lemon Pod Wax, white, late,  | 10   | 40  | 2.50  |
| New Prolific Tree.....       | 10   | 40  | 2.50  |
| Early Feejee.....            | 10   | 35  | 1.60  |
| Large White Marrowfat.....   | 10   | 25  | 1.50  |
| Dwarf Horticultural.....     | 10   | 40  | 2.50  |
| Cannadian Wonder.....        | 15   | 50  | 4.00  |

## Pole Beans.

|                            |    |    |      |
|----------------------------|----|----|------|
| Golden Butter.....         | 15 | 50 | 4.00 |
| Concord.....               | 10 | 30 | 2.00 |
| Large Lima.....            | 10 | 30 | 2.50 |
| German Wax.....            | 10 | 30 | 2.00 |
| Dreer's Improved Lima..... | 10 | 30 | 3.00 |

## Corn.

|                             |    |    |      |
|-----------------------------|----|----|------|
| Early Marblehead.....       | 10 | 30 | 1.60 |
| Amber Cream, New,.....      | 10 | 30 | 1.60 |
| Early Minnesota.....        | 10 | 30 | 1.60 |
| Crosby's Extra Early.....   | 10 | 30 | 1.60 |
| Stowell's Evergreen.....    | 10 | 30 | 1.60 |
| New Egyptian.....           | 10 | 30 | 1.60 |
| Red and White Rice Pop-Corn | 10 | 40 | —    |
| Wauhakum Field.....         | 10 | 30 | 1.00 |
| Longfellow's Field.....     | 10 | 30 | 1.00 |

## Peas.

Those **Peas** marked \* are wrinkled sorts. Those marked *a* are extra early; *b*, medium; *c*, late.

|                                           |    |    |      |
|-------------------------------------------|----|----|------|
| <i>a</i> Cleveland's First & Best, 2½ ft. | 10 | 35 | 2.00 |
| <i>a</i> *Laxton's Alpha, 3 ft. ....      | 10 | 35 | 2.00 |
| <i>a</i> Philadelphia Extra Early, 2½ ft. | 10 | 30 | 1.60 |
| <i>a</i> *Bliss's American Wonder, 1 ft.  | 10 | 40 | 2.50 |
| <i>b</i> *McLean's Advancer, 2 ft. ....   | 10 | 30 | 1.60 |
| <i>b</i> *McLean's Little Gem, 1 ft. .... | 10 | 30 | 1.60 |
| <i>b</i> *Carter's Premium Gem, 1½ ft.    | 10 | 35 | 2.00 |
| <i>b</i> *Stratagem, 2½ ft. ....          | 15 | 50 | 4.00 |
| <i>b</i> *Pride of the Market 2½ ft. .... | 15 | 50 | 4.00 |
| <i>c</i> *Yorkshire Hero, 5½ ft. ....     | 10 | 30 | 1.60 |
| <i>c</i> *Blue Imperial, 3 ft. ....       | 10 | 30 | 1.60 |
| <i>c</i> *Champion of England, 5 ft. .... | 10 | 30 | 1.60 |
| <i>c</i> Tall Gray Sugar, 5 ft. ....      | 10 | 40 | 2.50 |
| <i>c</i> Black-Eyed Marrowfat, 5 ft. ..   | 10 | 25 | 1.00 |

## Asparagus. Pkt. Oz. Lb.

|                               |    |    |      |
|-------------------------------|----|----|------|
| Conover's Colossal.....       | 05 | 10 | 0.75 |
| Early Purple Giant Argenteuil | 05 | 20 | 1.50 |

## Brussels Sprouts.

|                          |    |    |   |
|--------------------------|----|----|---|
| Carter's Perfection..... | 05 | 25 | — |
|--------------------------|----|----|---|

| Beets.                     | Pkt. | Oz. | Lb. |
|----------------------------|------|-----|-----|
| New Eclipse, true,.....    | 10   | 25  | —   |
| Early Egyptian.....        | 05   | 10  | .75 |
| Bassano.....               | 05   | 10  | .75 |
| Dewing's Fed Turnip.....   | 05   | 10  | .75 |
| Yellow Turnip.....         | 05   | 10  | .75 |
| Long Smooth Blood.....     | 05   | 10  | .75 |
| Above Varieties Mixed..... | 05   | 10  | .75 |

## Mangel Wurzel Beets.

|                        |    |    |     |
|------------------------|----|----|-----|
| Yellow Globe.....      | 05 | 10 | .75 |
| Norbitan's Giant.....  | 05 | 10 | .75 |
| Webb's New Kinver..... | 05 | 10 | .75 |
| Imperial Sugar.....    | 05 | 10 | .65 |

## Broccoli.

|                        |    |    |   |
|------------------------|----|----|---|
| Early Purple Cape..... | 10 | 60 | — |
| White Cape.....        | 10 | 60 | — |
| Walcheran.....         | 10 | 60 | — |

## Cauliflower.

|                            |    |      |       |
|----------------------------|----|------|-------|
| Lackawanna (New).....      | 20 | 2.00 | 30.00 |
| Early Snowball,.....       | 20 | 2.00 | 30.00 |
| Earliest Dwarf Erfurt..... | 20 | 2.00 | —     |
| Early London.....          | 15 | .75  | —     |
| Nonpareil.....             | 20 | 1.25 | —     |
| Lenormand's Short Stem.... | 20 | 1.25 | —     |
| Above Varieties Mixed..... | 20 | 1.25 | —     |

**Cabbage.** All retail orders for those varieties marked \* will be filled from our celebrated "Puget Sound Stock" which have given the greatest satisfaction of any seeds we ever sold. Eastern grown seeds of these varieties will be supplied at **25 per cent. lower rates in quantity if wanted.**

|                              |    |    |      |
|------------------------------|----|----|------|
| Hartwell Early Marrow.....   | 15 | 50 | 8.00 |
| Very Early Favorite.....     | 15 | 50 | 8.00 |
| Early York.....              | 05 | 15 | 2.00 |
| *Berkshire Beauty, New,..... | 10 | 25 | 4.00 |
| *Early Bleichfield.....      | 10 | 25 | 4.00 |
| *True Jersey Wakefield.....  | 10 | 25 | 4.00 |
| Henderson's Early Summer..   | 10 | 25 | 4.00 |
| Newark Early Flat Dutch....  | 10 | 25 | 4.00 |
| Large Early Oxheart.....     | 05 | 20 | 3.00 |
| Early Winingstadt.....       | 05 | 20 | 3.00 |
| *Fotter's Early Drumhead.... | 05 | 25 | 4.00 |
| *Premium Flat Dutch.....     | 05 | 25 | 4.00 |
| *Late American Drumhead....  | 05 | 25 | 4.00 |
| *Marblehead Mammoth.....     | 05 | 25 | 4.00 |
| Perfection Drumhead Savoy..  | 05 | 25 | 4.00 |
| Red Drumhead,.....           | 05 | 25 | 4.00 |
| Red Dutch.....               | 05 | 25 | 4.00 |
| Early Dark Red Erfurt.....   | 10 | 35 | 5.00 |
| Above Varieties Mixed.....   | 10 | 30 | 4.50 |

## Carrot.

|                            |    |    |      |
|----------------------------|----|----|------|
| Early Short Horn.....      | 05 | 10 | 1.25 |
| Improved Long Orange.....  | 05 | 10 | 1.50 |
| Danvers Orange.....        | 05 | 10 | 1.25 |
| White Belgian.....         | 05 | 10 | 1.00 |
| Above Varieties Mixed..... | 05 | 10 | 1.00 |

## Celery.

|                               |    |    |      |
|-------------------------------|----|----|------|
| Golden Hartwell, New.....     | 15 | 40 | —    |
| La Plume Chesnut, New,....    | 10 | 25 | 3.00 |
| Crawford's Half Dwarf.....    | 05 | 25 | 3.00 |
| Carter's Dwarf Crimson.....   | 10 | 25 | 3.00 |
| New Golden Dwarf.....         | 10 | 25 | 3.00 |
| Dwarf White Solid.....        | 05 | 25 | 3.00 |
| Boston Market.....            | 10 | 50 | —    |
| Sandriogham.....              | 05 | 25 | 3.00 |
| Giant White Solid.....        | 05 | 25 | 3.00 |
| Celeriac, Turnip Rooted,..... | 05 | 25 | —    |
| Above Varieties Mixed.....    | 10 | 30 | —    |

## Chicory.

|                   |    |    |      |
|-------------------|----|----|------|
| Large Rooted..... | 05 | 10 | 1.25 |
|-------------------|----|----|------|

## Cress.

|                             |    |    |      |
|-----------------------------|----|----|------|
| Curled, or Peppergrass..... | 05 | 10 | 1.25 |
| Water Cress.....            | 10 | 60 | —    |

## Cucumber.

|                              |    |    |      |
|------------------------------|----|----|------|
| Tailby's Hybrid, New,.....   | 05 | 10 | 1.50 |
| Early Cluster.....           | 05 | 10 | 1.50 |
| Early Russian.....           | 05 | 10 | 1.50 |
| Peerless Early White Spine.. | 05 | 10 | 1.50 |
| Green Prolific.....          | 05 | 10 | 1.50 |
| Long Green.....              | 05 | 10 | 1.50 |
| Above Varieties Mixed.....   | 05 | 10 | 1.50 |

## Endive.

|                   |    |    |      |
|-------------------|----|----|------|
| Green Curled..... | 05 | 20 | 2.00 |
|-------------------|----|----|------|



|                                                              | Pkt. | Oz. | Lb.  |
|--------------------------------------------------------------|------|-----|------|
| <b>Egg Plant.</b>                                            |      |     |      |
| Long Purple .....                                            | 10   | 50  | —    |
| Improved N. Y. Purple .....                                  | 10   | 60  | —    |
| Very Early Dwarf Purple....                                  | 10   | 50  | —    |
| Striped Gaudalupe.....                                       | 10   | 60  | —    |
| Long White China.....                                        | 10   | 60  | —    |
| Above Varieties Mixed.....                                   | 10   | 60  | —    |
| <b>Gourds.</b>                                               |      |     |      |
| New Nest Egg .....                                           | 15   | 50  | —    |
| <b>Kohl Rabi.</b>                                            |      |     |      |
| Large Purple.....                                            | 10   | 35  | 5.00 |
| Early White Vienna .....                                     | 10   | 35  | 5.00 |
| Above Varieties Mixed.....                                   | 10   | 35  | 5.00 |
| <b>Lettuce.</b>                                              |      |     |      |
| Black Seeded Satisfaction ....                               | 05   | 20  | 2.00 |
| Royal Summer Cabbage .....                                   | 05   | 20  | 2.00 |
| Black Seeded Simpson, New,..                                 | 05   | 20  | 2.00 |
| Hanson .....                                                 | 05   | 20  | 2.00 |
| Victoria .....                                               | 05   | 20  | 2.00 |
| Early Curled Simpson .....                                   | 05   | 20  | 2.00 |
| True Boston Market .....                                     | 05   | 20  | 2.00 |
| White Seeded Tennisball.....                                 | 05   | 20  | 2.00 |
| Black Seeded Tennisball.....                                 | 05   | 20  | 2.00 |
| Drumhead, or Malta .....                                     | 05   | 20  | 2.00 |
| Above Varieties Mixed.....                                   | 05   | 20  | 2.00 |
| <b>Leek.</b>                                                 |      |     |      |
| Large Scotch Flag .....                                      | 05   | 30  | 4.00 |
| <b>Musk Melon.</b>                                           |      |     |      |
| <b>Banana</b> .....                                          | 05   | 25  | 4.00 |
| Nutmeg.....                                                  | 05   | 10  | 1.25 |
| Skillman's Netted.....                                       | 05   | 10  | 1.25 |
| Improved Yellow Cantaloupe                                   | 05   | 10  | 1.25 |
| Green Citron.....                                            | 05   | 10  | 1.25 |
| Pine Apple .....                                             | 05   | 10  | 1.25 |
| Jenny Lind.....                                              | 05   | 10  | 1.25 |
| Surprise, New, .....                                         | 05   | 15  | 2.00 |
| Bay View, New, .....                                         | 05   | 15  | 2.00 |
| Montreal Green Nutmeg, New,                                  | 05   | 20  | 3.00 |
| Netted Gem .....                                             | 05   | 20  | 3.00 |
| Hackensack .....                                             | 05   | 10  | 2.00 |
| Christiana Orange .....                                      | 05   | 10  | 2.00 |
| Above Varieties Mixed.....                                   | 05   | 10  | 1.50 |
| <b>Water Melon.</b>                                          |      |     |      |
| The "Boss," New, .....                                       | 05   | 20  | 3.00 |
| Japan Sculptured-Seeded ....                                 | 05   | 20  | 3.00 |
| Cuban Queen, New.....                                        | 05   | 20  | 3.00 |
| Phinney's Early.....                                         | 05   | 10  | 1.25 |
| Striped Gipsev.....                                          | 05   | 10  | 1.25 |
| Ice Cream .....                                              | 05   | 10  | 1.25 |
| Mountain Sweet .....                                         | 05   | 10  | 1.25 |
| Ferry's Peerless .....                                       | 05   | 10  | 1.25 |
| Citron. (for preserving,) .....                              | 05   | 10  | 1.25 |
| Above Varieties Mixed.....                                   | 05   | 10  | 1.25 |
| <b>Mustard.</b>                                              |      |     |      |
| White French.....                                            | 05   | 05  | 60   |
| Black American .....                                         | 05   | 05  | 60   |
| <b>Onion. Five pounds or over of those sorts</b>             |      |     |      |
| <i>marked * will be sent by express at \$1.00 per pound.</i> |      |     |      |
| Southport Yellow Globe, New                                  | 05   | 20  | 2.00 |
| Southport Red Globe, fine,....                               | 05   | 20  | 2.00 |
| Early Red Globe.....                                         | 05   | 20  | 2.00 |
| *Yellow Danvers.....                                         | 05   | 15  | 1.60 |
| *Red Wethersfield .....                                      | 05   | 15  | 1.60 |
| *Large Yellow Dutch.....                                     | 05   | 15  | 1.60 |
| White Globe .....                                            | 05   | 20  | 2.00 |
| White Portugal.....                                          | 05   | 20  | 2.00 |
| New Queen .....                                              | 05   | 20  | 3.00 |
| White Italian Tripoli.....                                   | 05   | 20  | 3.00 |
| Giant Rocca.....                                             | 05   | 20  | 3.00 |
| <b>Parsnip.</b>                                              |      |     |      |
| Smooth Hollow Crowned ....                                   | 05   | 10  | .75  |
| Early Round.....                                             | 05   | 10  | .75  |
| New Maltese .....                                            | 05   | 10  | 1.60 |
| <b>Parsley.</b>                                              |      |     |      |
| Extra Fine Curled .....                                      | 05   | 15  | 2.00 |
| <b>Pepper.</b>                                               |      |     |      |
| <b>New Golden Dawn</b> .....                                 | 10   | 50  | 8.00 |
| Sweet Bell or Bull Nose.....                                 | 10   | 25  | 4.00 |
| Large Sweet Mountain.....                                    | 10   | 25  | 4.00 |
| Red Cayenne .....                                            | 10   | 25  | 4.00 |
| Spanish Monstrous (New) ....                                 | 10   | 40  | —    |

|                                                             | Pkt. | Oz. | Lb.                |
|-------------------------------------------------------------|------|-----|--------------------|
| <b>Pumpkin.</b>                                             |      |     |                    |
| Mammoth Tours .....                                         | 05   | 10  | 85                 |
| Large Cheese.....                                           | 05   | 10  | .85                |
| Sugar. (Fine for pies,).....                                | 05   | 20  | —                  |
| Connecticut Field .....                                     | 05   | 05  | .45                |
| <b>Radishes.</b>                                            |      |     |                    |
| Early Scarlet Turnip .....                                  | 05   | 10  | 1.00               |
| Early White Turnip .....                                    | 05   | 10  | 1.00               |
| Long Scarlet Short-Top.....                                 | 05   | 10  | 1.00               |
| Early Scarlet Olive .....                                   | 05   | 10  | 1.00               |
| French Breakfast.....                                       | 05   | 10  | 1.00               |
| Grey Summer Turnip.....                                     | 05   | 10  | 1.50               |
| Golden Yellow Summer (New)                                  | 05   | 10  | 1.50               |
| Summer Varieties Mixed....                                  | 05   | 10  | 1.25               |
| China Rose Winter .....                                     | 05   | 10  | 1.00               |
| Black Spanish Winter .....                                  | 05   | 10  | 1.00               |
| California Mammoth White..                                  | 05   | 15  | 2.00               |
| Winter varieties Mixed .....                                | 05   | 10  | 1.50               |
| <b>Rhubarb.</b>                                             |      |     |                    |
| Linnæus .....                                               | 05   | 10  | 1.60               |
| <b>Salsify, or Vegetable Oyster.</b>                        |      |     |                    |
| White French.....                                           | 05   | 15  | 1.50               |
| <b>Spinach.</b>                                             |      |     |                    |
| Round Leaved .....                                          | 05   | 05  | 0.50               |
| Monstrous Viroflay .....                                    | 05   | 10  | 1.00               |
| <b>Squash.</b>                                              |      |     |                    |
| Perfect Gem .....                                           | 05   | 20  | 2.50               |
| Cocoanut .....                                              | 05   | 20  | 2.50               |
| Low's Essex Hybrid, New,....                                | 05   | 10  | 1.25               |
| Early White Bush .....                                      | 05   | 10  | 1.00               |
| Summer Crookneck .....                                      | 05   | 10  | 1.00               |
| Hubbard .....                                               | 05   | 10  | 1.25               |
| Marblehead .....                                            | 05   | 10  | 1.25               |
| Butman, .....                                               | 05   | 10  | 1.25               |
| Mammoth.....                                                | 10   | 30  | —                  |
| <b>Tobacco.</b>                                             |      |     |                    |
| Connecticut Seed Leaf.....                                  | 10   | 30  | —                  |
| Spanish Long Leaf.....                                      | 10   | 30  | —                  |
| <b>Tomato. <math>\frac{1}{2}</math> Oz. at ounce rates.</b> |      |     |                    |
| Livingston's Favorite, New,                                 | 10   | 60  | 8.00               |
| Livingston's Perfection, ....                               | 05   | 30  | 4.00               |
| Essex Hybrid, New.....                                      | 10   | 50  | 5.00               |
| Ford's Alpha, New, .....                                    | 10   | 50  | 5.00               |
| Acme.....                                                   | 05   | 30  | 4.00               |
| Mayflower, New, .....                                       | 10   | 50  | 5.00               |
| Red Currant .....                                           | 05   | 50  | 5.00               |
| Paragon .....                                               | 05   | 30  | 4.00               |
| Canada Victor .....                                         | 05   | 30  | 4.00               |
| Trophy .....                                                | 05   | 30  | 4.00               |
| Island Beauty.....                                          | 05   | 50  | 5.00               |
| Golden Rural, New,....                                      | 05   | 50  | 5.00               |
| Above Varieties Mixed.....                                  | 05   | 30  | 4.00               |
| <b>Turnip.</b>                                              |      |     |                    |
|                                                             | Pkt. | Oz. | Lb.                |
| New White Egg,.....                                         | 05   | 10  | .75                |
| Early White Dutch.....                                      | 05   | 10  | .75                |
| Purple Top Strap Leaf.....                                  | 05   | 10  | .75                |
| Long White Cow Horn .....                                   | 05   | 10  | .75                |
| Large White Globe.....                                      | 05   | 10  | .75                |
| Yellow Aberdeen .....                                       | 05   | 10  | .75                |
| Yellow Globe .....                                          | 05   | 10  | .75                |
| Golden Ball.....                                            | 05   | 10  | .75                |
| Above Varieties Mixed.....                                  | 05   | 10  | .75                |
| <b>Rutabaga, or Swede Turnip.</b>                           |      |     |                    |
| White French, or Sw't German                                | 05   | 10  | 80                 |
| Skirving's Purple Top Yellow                                | 05   | 10  | 80                 |
| Brill's American Yellow .....                               | 05   | 10  | 80                 |
| Shamrock Swede, Yellow.....                                 | 05   | 10  | 80                 |
| Above Varieties Mixed.....                                  | 05   | 10  | 80                 |
| <b>Herb Seeds.</b>                                          |      |     |                    |
|                                                             | Pkt. | Oz. | Pkt. Oz.           |
| Coriander .....                                             | 05   | .20 | Dill..... 05 .25   |
| Horehound.....                                              | 10   | 50  | Sage .....         |
| Summer Savory... ..                                         | 10   | 30  | Saffron... 05 .25  |
| Sweet Marjoram.. ..                                         | 10   | 40  | Lavender . 10 .30  |
| Caraway .....                                               | 05   | 15  | Sweet Basil 10 .40 |
| Sweet Fennel.....                                           | 05   | 20  | Thyme.... 10 .50   |

**Isaac F. Tillinghast,**  
**La Plume, Lack'a Co., Pa.**







# Continued from 2d Cover Page.

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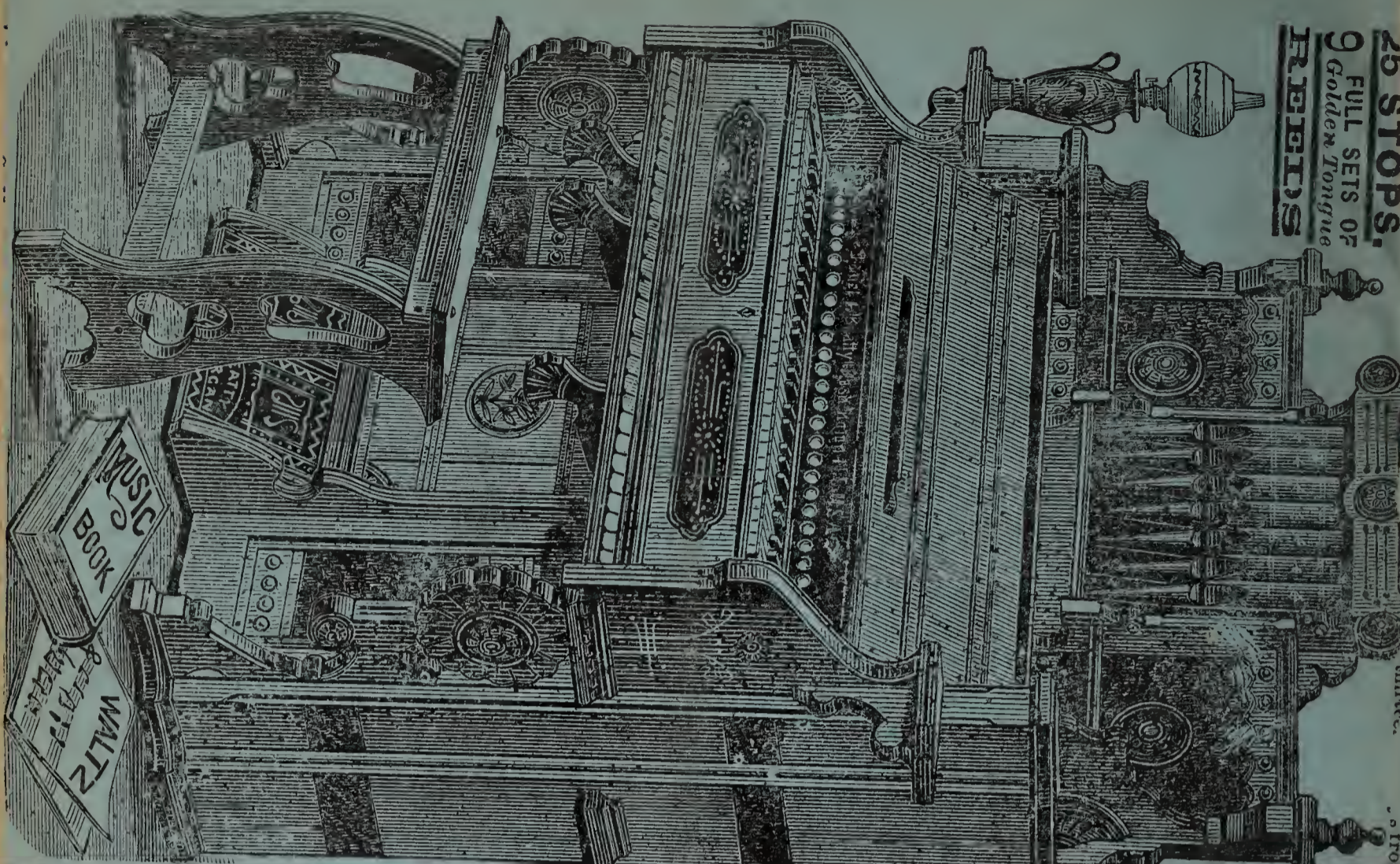
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