## FARMER'S $\overline{A D V O C A T E .}$

## Essays Written for "'The Farmers'

 Advocate."In offering prizes for essays from farmers on agricultural subjects, we aim at more than one good to be derived from them. Our desire has been to present to our readers the knowledge of practical farmers, rather than the deductions of ere scientists, culture, but the lessons that make deeper impressions are those gathered from experience. We speak as practical men to practical men-as farmers to farmers.
We hold out inducements also that farmers may be brought to think and judge for themselves more than many are in the habit of doing. The wisdom acquired from our own careful observation is seldom appreciated at its true value.
We hope that the consideration of a topic brought before our readers in an essay shall not end with its publication, but that othe the oninions ject may in the ADvocanize advanced or in opposition to them
pposition to the
We will briefly review the essays monthly published in our columns :
Fence or no Fence.-This question now occupies There can be no second opinion as to the great expense incurred by them. The cost of a fencemaking and repairing-is no small item in the farm ledger. The area of ground occupied by fences is another item of loss-much greater than appears at first sight-to those to whom they have almost been taken as a necessary part of farming. And another item, not the managed, is ung for wo and a breeding-place and covert for insects. From this uncultivated strip they are spread in every direction over the fields, and too often a farmer, while he labors with cultivator and hoe to exterminate weeds that are robbing his crops of their food, neglects those that are sowing broadcast their seeds from neglected strips and corners.
While fully aware of the losses thus occurring
from the use of from the use of fences, we would not a away
them wholly. Remove all fences not absolutely necessary. This will lessen the cost they entail upon us, and keep mowed the grass and weed from every waste strip and corner, that they be no longer nurseries for weeds and coverts for insects. Divide your arable land into fields of the sam number that you design the term of your system agriculture to be. If a five-year or a six-year ro tation, divide the land accordingly. If you have, after deducting woodland, \&c., 75 acres arable, an you will have 6 plots of $12 \frac{1}{\text { y }}$ acres each-one for root crops, two for grain, one for green crops for soiling, and two for pasture ; or you may purs another system as best suited to your farm.
We have from time to time painted out in th Advocate the advantages of soiling. From ou own experience we can bear testimony tō its great profits. Yet we would always have some pastur
and. The stock will be in better health if pas tured some hors every day, and the butter and cheese will be of a letter quality than if fed alto. gether in the barn or yard. One-sixth of the farm
might in many cases be euough for pasture, and Finally we would say, keep up hay ences; reduce the losses attending them as much as possible. Destroy all weeds, not only among the crops, but in all waste places. Public property, also, "the Queen's highway," is often the greatest nursery for weeds, the pest of the neigh
borhood. This should not be so. Wage unceasing war with your great enemies, the weeds.

## Orchard Grass.

In the Januaryl issue, you have a full description of this valuable grass. We now give you the ac

at rewn as timolny. It malures ine secona year, strong tufts, and stands better in drouth than any other grass; it grows carlier in the spring, and nakes a more rapid growth after being cut. The fact that our best fariw woly hor in its fawo any remarks we can make. It is but recently introduced in America, and is not yet in general cultivation, but is ganining fast in favor.
It has been cultivated for many years in Europe, and is much prized there, and known under the about two bushels of seed per acre; the seed is
light, weighing but 14 lbs . per bushel. It would be well for supplies can be procured when you find out its value.

## Seeds

Whest.-There is a great complaint from many parts of the Dominion that spring wheat is no promising remuneration. We well knew that this is too true. Attempts are being made by many to introduce and find out more valuable varieties. For our part we have, at far greate expense than heretoore, tried to procure some ties we have in cultivation. We sent one perso to the Eastern States to enquire about some there we sent another person to the eastern part of Canada, where we heard of a variety that was succeeding; we went to Michigan ourselves to gain information on spring wheat there-but up to the present we have found nothing that we can as safely recommend as the Red rem wheal. Last year wo ouly two exceptions it has proved a total failut Two of our subscribers have raised some, and will sow it, and believe they can raise it to good re sults. Perhaps, in a few years, that wheat whic nearly all have abandoned as useless may bring fortune to one or two persons that may acclimat it. Of course there is labor, and risk to run. The farrow wheat we sent out last year has, in most cases, given good satisfaction. The milling quality
is condemned by some, but the extra yield has made up for any deficiency in price. This senso we introduce to you the Red Fern wheat. Thi wheat has been raised from one plant that ha three heads. It was found some years ago on eld of Fife wheat. It grew so much better, and filled better, than the Fife wheat, that the thre heads were preserved and sown, and the produce e-sown. There is as yet but very littie of it, and hat makes it rather bad is that the grain wa has been allowed to become mixed with oate and barley, and other foul 'seeds, so that it requires a vast amount of labor to make it fit for setd. However, we have, at a very heavy expense, purchased, and by dint of cleaning and receauing, and picking, shall now introduce this to you. In doing so, we feel confident that we send to you a spring wheat that will give you greater has been tried by persons that test seeds for us The heads are long some of which measure six inches in length. It is bearded like the Rio Grande. The grains are much shorter, plumper, and of the best milling quality. The straw is stiff, will stand better than any other variety, snd is less liable to rust; in fact, it may be claimed rust proof. It has grown well on light soils, while on heavy and rich soil no spring wheat will equal yield better and make a first-class yuality of spring wheat. We advise every one of you to try a little ; it will soon increase. This has now been tried by five of our reliable subscribers. Thas we are prepared to stake our reputation in introducing this to you; in fact, we will warrant it to give general satisfaction. There may be more wheat o the same kin, in ala but wo some of the
about any like it or equal to it, and we have made enquiries from hundreds of sources to ascertain about it.
Barley.-The California barley appears too coarse. We know of no better variety than that in general cultivation.
Peas.-We have nothing special in this class this year. The Mummy peas sent out last year are being raised by some. The great advantage of
continual bearing commends them for some purposes. We disposed of our stock in small quantiposes. We disposed of our stock for thear, and have no stock for this our little stock was divided into very small lots, and sent widely over the country. They were con-
demned by some, as they were much injured by demned by so tho pea bug.
Oats.-In this cereal we believe we have a more valuable variety to introduce than ever before.
The Black Polands, or Westwell oats, although of excellent quality, and have carried off the prizes at the Provincial Fair every year, still they are not liked by farmers for general cultivation. They are too late in ripening. The Angus Polands shell too easily' ; the Main, or Tartary, are well likedstill many wish for a change. We have now some white Main oats, that were raised from imported seed; they are well liked where they have been tried. We also have some black Poland oats, appears destined to come into general cultivation appears destined to come into general cultivation
is the Emporium, imported from Australia, and which have been well tried on various soils. They are white, having a thin skin; are longer, but not so round as the Angus, but have a good kernel and weigh well. They grow on one
side, somewhat like the Main oat; they are free side, somewhat like the Main oat; they are free
from the long beard, so objectionable in the com from the long beard, so objectionable in the com mon varieties; they yield as well as any other varieties, and better than most kinds; they surstraw. Parties that have tried them prefer them in every respect to any other variety. They have been tried by the side of each American and English variety that we have heard of in our
country, and are admitted by all who have seen country, and are admitted by all who have seen
them to be the most profitable and best oat to them to be the most profitable and best oat to
raise. We introduce this oat to you without any raise. We introduce this oat to you without any
hesitancy, feeling sure that you will like them, and that your neighbors will want to get them from you for seed as soon as you have them
spare. There is one little defect-there is amon them an occasional black oat, which we are no able to separate without hand-picking, and we have not time for that.
Two new grapevines will he introluced this year, both of which are highly spoken of. One is named Lady-a white grape; the other is purple grape. Very great advantages are claimed
for both. We can only give you such information for both. We can only give
about them as we can collect

## The Downing gooseberry,

The Downing, gooseberry, of which we spoke in
our last issuu, is, we believe, the best ever ye
introduced into Canada. introduced into Canada.
Orchard Grass.-In our January issue we
gave a long account of this valuable grass. What gave a long account of this valuable grass.
speaks more in its favor than any remark of ours
is, that farmers in Canada that hare once triel it is, that farmers in Canada that hare once tried it
are applying for it in greater quantities. We
would advise you to get a little to try. After you have given it a fair trial, we expect you will
like others that have tried it-require more.
A correspondent statess that he has frequently
known rats to empty a vessel of oil, kept for the use of barn machinery, by introducing their tails
into the vessel through a comparatively narrow into the vessel through a comparatively narrow
opening, withdrawing the oil as it adhered; licking
it off and repeating the ress it onff, and repeating the process as long as any
of the oil remained. Another relates that he
of of the oil remained. Another relates that. he
witnessed a aparty of rats in their filching opera.
tions, earrying off hens' eggs. One of the party grasped the egg with all four paws, and turning on
his back was dragged away by the tail up a flight of stairs by the rest of the party.

## Winter Farming in England.

 From an Essex Farmer in M. L. Fxpress. A long and severe frost has interrupted cultiva tion, but enables us to cart manure to land in tended for table peas. Our mangord las manured and steam-plowed before the fros. water nuch more completely than the horse-plowedmore water runs off the surface of the latter. Our sheep (folded on stubble to be prepared for peas) have been fed with pulped roots, mixed with meal, cake, malt-culms, bran, hay, straw, chaff and cake. The cattle are fattening under cover; so are some old worn-out ewes. This morning, owing to therotten state of the heavy land, the sheep are rerotten state of the heavy land, the sheep are re-
moved to the Italian rye-grass for a few days. moved to the Italian rye-grass for a few days.
We have an abundant supply of mangold and We have an abundant supply of mangold and
kohl-rabi ; also plenty of clover-hay to sell, provided we can get $£ 510 \mathrm{~s}$, to $£ 6$ per ton. We invariably breed our own sheep-a cross between Lincoln or Cotswold ram, and dark-faced Suffolk or Hampshire-Down ewe. The hoggets are sold fat at about twelve to thirteen months old. Our wheats are late, but they do not appear to have
suffered from frost. I am glad to see that Mr suffered from frost. I am glad to see that Mr.
Smith, of Woolston, has come down from the old Smith, of Woolston, has come down from the of
fashioned ten peck of seed per acre to the four peck. Thin sowing is becoming more the order of the day. Thousands of the saved their lives by ages. I was glad that they had food, for their ives are valuable to me as insect consumers.

## he Canadian Dairymen's Convention.

 Was held in Ingersoll on Wednesday and Thur lay, the 10 and 11 of Feb'yProfessor Bell, of Bellville, and the well known X. A. Willard, delivered able addresses, of which we shall in other parts of the paper give an abridge able information was given. Perhaps the mas mportant subjects treated on, while we were there were the coloring of cheese, and the size of cheeses. The hall was lined with placards of Annatto for ale. Annatto has been for years drilled into on Dairymen until it begins to smell too strong; this as been done perhaps to effect sales of the stuff ore than for the benefit of dairymen. We think may be advantageous for dirty dairymen and own experience with cheese, we think it dcsidedly njurious, and the system should be abolished We conversed with the gentleman whose chees took the first prize in England, the past year; h used no Annatto; his cheese was made in Canada If we go to mine-tenths of the grocers in Canada a the present time, we will find colored cheese of a
third class; much of which ought to be condemned third class; much of whi
as unfit for human food.
as unfit for human food.
sumption being of good quality sold for foreign co sumption being of good quality. If we were about
to establish a factory, we would not use Annatto if we could make good cheese. If we could only make 2nd. class cheese, we would color it. The cost of using the liquid Annatto, as shown to us is, nearly double the cost of using the pure seed Annatto, and it is far more injurious.
One of the
One of the most experienced dairymen, imformed us that he had felt the injurious effect of colored informed us that the liquid Annatto had airyman hetween $\$ 100$ and $\$ 200$; the past year, this coloring coloring is to be continued, and perhaps to suit some markets where the people are not aware of lowed until people find out the real facts of the case. Coloring by using Annatto in the seed, ap-
ears to be about half as much, as when using the iquid. One enterprising American dairyman that attended the Convention, informed us that he used pensive. We inquired of him how he used the seed, he gave us the following receipt that he used to advantage. Take two pounds of potash, one pound of sal soda dissolved in two gallons of boiling water, add to this three and a half pounds of Annatto seed; let it stand six hours, then strain. One tea cup full of this is sufficient to color 1,000 lbs. of milk, this coloring of cheese cost him one and a quarter cent per hunder
of the seed is 30 cents per pound.
of the seed is 30 cents per pound be think it would be coloring at once; but gradually use less and make more pure unadulterated cheese.
The discussion of the question of the care of cheese tended to show that profit would accrue to cheese makers, if they would make smaller sized cheese. This may be as plainly shown by the fact, that the Hon. D. Reesor has been in the habit of selling cheese as Stilton, the principal difference is, that these cheeses are man consume it without loss can purchase a cheese and consuse when a family would take a large one. Thus Stilton cheese has commanded 17 and 18 cents per pound, while the large cheese have been selling at 12 cents; the quality of the curd is the same, the Stiltons have been ground a little finer in the curd; have had a little more acid added to it; in fact the contract to make these cheeses has been given to dairymen and the price paid for it at the factory is only the common price for common cheese; the size and ame has added the additional 6 cents per pound to wo careful about getting the right sized hoops and presses: we would say to our subscribers, do ot think of purchasing any large, old press, hoops, or boxes, even at half price; if you can sell them at that figure, we would advise you to sell at once, as we are well satisfied that those that make small cheese, will have the advantage over those that nake large ones. There are some markets that may require "large cheese, and highly colored, prefer a small cheese, and that without'any discepprefer a small chit

Culture of a Farm of Poor Sandy The following extract from the "London Agrithe Royal Agricultural Society of the Maulden Farm-487 acres of light sandy soil-contains a yood lesson for our Canadian farmers. It cannot be too persistently impressed on our minds that good management, even more than a naturally fertile soil, can make farming remunerative. "On the successful cultivation of the green crop the status of the farm depenas more than on that of its whe of the thenant or the laborerbe considered. The permanent fertility of the land, the profit of the field, and the labor in which, according to the wise man, so much profit lies, all hinge more on the extent and excellence of the green crop than on any other single feature of the farm." On the Maulden farm were 70 or 80 acres of kohl rabi, a
clean and even crop of some twenty imperial tons clean and even
to the acre :
"The great average crops must be put down to to the original fertility of the soil, which is naturto the original fertility of the soil, Which dount the
ally a poor sand and hot gravel. No dound
cuestion of agricultural merit is difficult to solve question of agricultural merit is difficult to solve
when it lies between the skill which by labor and good managenent makes a difficult but naturally
well stored soil produce its utmost, and the enter
prise and confidence which makes a poor but easy
soil produce far beyond its utmost; and those who
nudertal soil produce far beyond its utmost; and those who
undertake the office of judge ought to have every
opportunity that can be given them of guiding opportunity that can be given them of guiding
their decision. Here it is not by artificial maunring so much as by large consumption of purchased
food that artificial fertility is best conferred. No artificial manure is so completee as that which is
produced by the consumption of farm produce. It produced by the consumption of farm produce. It is when the storehouse or a nitrate will make the
full that a phosphate or
best return- the added ingredient then bringing best return-the added ingredient then bringing
into active use fertilizing matter, which, without into active use fertilizing matter, which, withoot
it, would have remained effete and useless. When the other ingredients of a complete plant food are
not naturally present, the artificial addition of one not naturally present, the artificial addition of one
or two is insufficient, and remains without result.
In the case of a poor sandy soil like that of Maal. In the case of a poor sandy soil
den Farm, it is therefore better policy to enrich
the home-made dung by added cattle food than by the home-made dung by added cattle food than by a heavy bill for superphosphate or ammonia salts
or nitrates. Mr. Street has found this out, and
and rhile hise. Mnnual manure bill does not exceed \&50,
whis paid for superphosphates for his green crops, the and the beans and peas of his own growth which
he consumes, amount to at least $£ 100$ per annum. he consumes, amount to at least $£ 100$ per annum
The 2,000 loads of farm manure and earth which he annually applies are thas highly enriched, and applied almost wholly to the green crop quarter.
They go to maintain the production of that cattle They go to maintain the production of that cattle
food on the after use of which the fertility of the food on the after use of which the fertility of
farm is thus made almost wholly to depend.
"Of the green crop quarter after wheat there
are a few acres in rye and tares to be plowed up in are a few acres in rye and tares to be plowed up in
May and June for transplanted kohl rabi; and there are a few acres in mangel wurzel every year for the latest spring keep before the rye and tares
are ready. The kohl rabi, which is the main and are ready. Mer ken crop, is, however, generally
almost only green
sown, pretty much as an early Swede crop would be sown, at intervals all through the month of
May, two or three pounds of seed per acre being May, two or three pounds of seed per acre being
drilled in rows 22 inches part, on land which has received a heavy dressing of well-made manure
The rye and tares, white clover, the pasture fields with a certain extent of cabbages to eke them out in drought, the clover stubble, a few early turnips, cession which keep cows and sheep, breeding and fatting stock, throughout the year. About two thirds of the barley crop-Hallett's Pedigree bar clover or with Dutch, and one-third of the barley stabble is plowed up for winter beans or for peas,
The whole of this is followed by wheat-Banham' Browick Red is the only kind sown-a portion of the quarter, whatever needs it most, receiving a
half-dressing of farm manure. After the wheat except when very dear, as catch crops, to be fol lowed by kohl rabi, which, from being the rarit more than garden scale, here usurps the office providing the whole winter feed of the flock an
 especially in a dry season such as the past, whe
Swedes and turnips have generally failed."

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Some members of the Order have written to us, finding fault with the remarks made on the sulwhom do not give their names for insertion, but merely sign "Granger." We publish the letters received, merely abridging them, as we must economize space, and not, by inserting them in full, exclude other matters of importance to agricultur, to which our paper is mainly devoted. To the writers we say, we do not take the part of manufacturers against farmers. The farmer's interest is ours, and every measure we advocate we Grange system as a farmers' organization, and we have aided in the introduction of it into Canada We believe that much good will result from it, and wish it every prosperity. At the same time, we do not devote the Advocate wholly to their in terest, though we expect the best class of farmer to become Patrons. We expoct the greatest bene fits from it will be from their social meetings, and
their discussions on subjects of agriculture, and that from general improvements and better managepect perme the farm. ers by extensive trading in general commodiuies. Contributions sent us, which are likely to promote any good or carry out any improvement, will be always received with great pleasure
Why should there be any clashing of interests between manufacturers and farmers? We do not think it a judicious policy to array class against class. While we, at all times, uphold the rights and just claims of farmers, we do not wage war gainstotiers, and cerlainly we in it the farmer's rights and interests.

Sapanee, Ont., Fel. 8, 1875. Sir, - You will confer a favor by giving the fol lowing statements space in your valuable paper, in eply to M. Du hors que Fin I
Firstly, I am a patron of a Grange; secondly, thirdly, I am at present a farmer. I merely men tion the above to convey the idea that I am a least partly qualified to answer his questions.
First-"What is a fair profit for a merchant to
make on his goods, and a farmer on his wheat?" With our present credit system, a merchant per cent. If everything was sold for cash, fifteen I do
I do not care to raise wheat for less than
wenty-five per cent. profit; but 1 do think that more wheat has been raised for a number of years in the older sections of our country, without any rofit than with it
Secondly-"If the Grange movement
honorable, why make any secret of it?"
To condemn the Grange because it is a secret
society, would be to condemn every secret soaety. But to give some of the reasons why it is would be almost an every-day occurrence if it w therwis 3 . Neig does not semith to the Grangs machine for some thirty or forty dollars less than
Jones can. If smith told Jones, the latter would in anf probability make it as unpleasant for the give some other person his patronage for the inture.
The $G$
The Grange loes not purpose being the means of ofy such dincuities-hence the great importance
of being a secret order. We have greatly reduced prices from manutacturers and producers
of our reyuirements-in some cases one-half less of our requirements-1n some cases one-half less
than we would be obliged to pay if we did not belong to the Cirange-and in -justice to manufac-
tarers, and the solemnity of our tarers, and the solemnity of our obb.
keep secret the business of our order.
Is it at all likely, if there was anything unfair
or dishonorable in the working of the Grange, that Pr dishonorable all
Patrons would
become members
So far as beauty, respectability and real worth
goes, we have a numljer of ladies (in the tru goes, we have a number of ladies (in
sense of the word) to grace our (irange.
Again, is there anything criminal in secrecy
We are almost every day making expressions that would be better secret. If secrets are honorably kept, peace, virtue, truth and character are pre-
servell. Is every well-regulated family dishonorable because they have their family secrets? The
principles of our order are not secret, and the principles of our order are not secret, and the
whole community have the best wishes of the
Patrons of Husbandry, not excepting asents and Patrons of
middlemen.
One great feature of the Grange is co-operation.
It kills monopoly. It is home enterprise. Cheese Factory Associations are co-operations, but per-
haps the most perfect is the postal system. What great adanantages from this great co-operative sys tem ! If every man
would cost a fortune.
Notwithstanding, the Patrons of Husbandry are
becoming quite numerous, and their influence i
ong obtain as many advantages as our brethren in States, but as yet we are in our infancy. Thirdly - "Tell us if a man who oheats and
ies for the sake of money is morally qualified to a Granger. To this I will say most emphatioally, No. We Lave none such. They would be niee associateen
or our wives and daughters, and ornaments to our order !
Final Finally-"If agents and middlemen are such
villains now, how can we be sure of their honesty when employed by the Grangers ?"
Agents and middlemen are just the men we
purpose dispensing with. We do not need them. We want to save their commission.
We claim it is much better for manufacturer to sent their price-lists and discounts to the Secre onthly to all subordinate Granges in our Do minion, thereby giving the Patrons of nearly on
hundred Granges an opportunity of sending in heir orders, accompanied by the cash (as we do a purely cash business), than to have agents or mid rms of credit, thereby paying large commissions In conclusio In conclusion, I ask your indulgence, as your oping this may be of some interest to that part
Very respectully,


## Overseer of Newburgh Grang

Schomberg, Feb. 9, 1875.
Mr. Edrtor-Dear Sir,-Allow me to send you a few thoughts suggested by reading an edito.
ial in your widely - erculated journal, headed, Manufacturers and infriendly feelings towards Grangers have no anfriende as essential to our hey have in the past conferred upon us. We hold that agents are often injurious to both manuacturer and farmer. How often is it that agents, too eager to gain percentage, ppayment is exceed-
say the least, the prospect of ingly doubtful? Let the
manufacturer prove this.
The Grangers have drawn no arbitrary lines.
We are yet in our infancy, feeling our way. We have no desire to injure any legitimate calling of the cointry. One of the greatest banes to prosperity is the credit system. We then ask the cooperation of manufacturers, merchants, \&c., in
producing the desired end. This end can be
Then gained by yranting to us the profits given to agents
and collectors, while we pay cash for all we purchase.
If this co-operation be withheld, we can estab-
ish manufactares which shall be under our own control. We have plenty of capital, and as much knowledge of the business as many who have made fortunes by it
There are
There are other subjects we might touch upon, representation in our Legislature according to ou numbers and wealth. These matters, however,
and many others, will doubtless, by and by, engage and many othe
our attention.
We are silently, but successfully, progressingin fact, from present appearances, there wil
be scarcely a farmer who is not a Granger. Yours truly,
J. M.

Bond Head, Feb. 9, 1875.
Mr. Eurtor-Dear Sir,-In your last issue of
me the Abvocith 1 noticed with some surprise you
remarks on the Girange movement. You are, no doult, better posted than mosst people, and know whereof you speak when you say that farmers are making quite as much aun. There are many who and
think different. You have a perfect, right to
become the champion of manufacturers' rights. What you mean by interfering with the general nean that Patrons should not use their privileges of buying from those who are wis
them at a reduced rate for cash.
Some large firms have responded to our request; some have not. Some remark that the large manuracturing establishments will not have anything to
do with us-small ones may. Well, now, who
made those large? The same custom that mad them strong can make the weak ones strong. It is perfectly right for a man of limited means tage, and sell to the best advantage also; but wrong in the eyes of some for
to unite to do the same thing.
Farmers at the present time deal just where they can, or think they can, do best. We now expect to have one an
able to compare notes.
We, as Patrons of Husbandry, are by no mean We, as Patrons of Husbandry, are by no means
at enmity with any branch of busness. lt is a
free country this, and those who have by united free country this, and those who have by united action been benefited will be slow to return to
their old habit of remaining out in the cold alone. Yours, \&c.,
Rurs, \&c.,

Granger.
Mr. J. Shier writes also to us, combatting the objeetions made against the Grange system. Our having already given so much space to the subject niefly to his letter; and those objections are lready taken up in order by our Napanee correspondent. Mr. Shier is, we believe, right in his expectations that "by farmers uniting in the Grange, that union so desirable for the promoting and maintaining of farmers' interests will be best secured."

## Correspondence.

SIR,- In the FARMERS' A DVocate I see an en-
cuiry from a subseriber, desiring to know whether tamarack posts will last well or not. 1 cut them
green 15 or 16 years ago, and put them in the fol green 15 or 16 years ago, and put them in the
lowing spring. The fence is still standing. think snch posts, when used green, last longe than dry ones.
West Flamboro', 1875.
Sir,-In sending you the subscriptions of three new subscribers, at their request, send the name ciety for the present year :- -President, John Ren ton; 1st Vice-Pres't, F. M. Carpenter; 2nd Vice
Pres't, Jacob V. Spohn; Secretary- Treasurer Jonathan Davis; Directors-Frank Gubel, Josep
Oliver, Wm. MoCalder, Alex. Young, Wm. Brown, Oliver, Wm. M. S. Jarvis, A. N. Taylor, James Aardine, sen'r; Auditors-Jos. Rymal, M. e.; W. Findlay, jr
Mount Albion, Feb'y 5th, 18
Jonathan Davis.
1875.
Sira,- Will you be kind enough to give me som informald, and the best time to plant them.
or fios. Foster.
Humber, Feb'y 6th, 1875.
[We think the common white cedar is, on th whole, the best for Mr. Foster's purpose. It i very hardy, grows reacre They are easily pro seasons a good wiry little expense, as they can be cad for the trouble of digging in many parts of the country. We have planted them at different soe sons, and have generally been syyccessful. In May and early in June we have transplanted them from the bush, and they grew freely. Last August and September we transplanted some, and they appear
very promising. We always mulch them to protect then from the summer and autumn droughts and the frosts of winter. A strong sod lapped over the roots, very well. -Ed.

An amateur gardener, of Kings Co., N. S., wishes to know the method we would recommend for preparing scions for grafting cherry trees, and a recipe for grafting wax. The wax we have us, 1 is made as follows :- Take rosin, 1 lb.; beeswax, rime the the add the the
and finally the beeswax. Stir well and pour it in to cold water, and work it so as to take the wato hands.
The scions for grafting we cut in February arly in March, and store them in a box placed i the cellar, till the time for grafting.
Sir,-As a farmer who has followed the busi ness all my life, and as a reader of your valuable
monthly, I drop you a line on the agriculture of this county, which, I think may be interesting to
some of your readers, as it is seldom that any some of your readers, as it is seldom that any
communications reach you from this quarter. The winter of '73-74 was a very severe one on grains and meadows in consequence of the scarccity
of snow, and the yield has been very light in this of snow, and the yield has been very led well, and
section. Spring grains have suceeeded whe
especially barley, of which a large amount is especin.
grown.
What What we want here is a railway to transport our grain to the stets. We have a line running from Pertht to Smith's Falls, there connecting with the
Brockville and Otcawa Railway, but the cost on Brockville and Otrawa Railway, but the cost to
freight is so high that there is no inducement to visit our market. Barley sells in Perth at 80 cents per bushel, and in
the price is $\$ 1.10$. the price is $\$ 1.10$
I would like to
in this county; 1 ame contident that swe want some thing of the kind to help the farmers. If you will, I will try to keep you posted on general mat
ters in this county.
Yours respectfully,
T. D. Perth, Feb'y 17th, 1875.
E. Whitly, Feb. 11th, 1875.

Mr. Editor,--I receive your paper regularly, and
am glad to see so noble a work for the benefit of am farmers. Many farmers think they
the fory
everything, but they are greatly mistaken.
every thing, but they are greaty mast year, and we
I sent you three subscribers last yend you now are so well pleased with it
Send the Advocates right on to Raglan P. O Vm . Thompson.
Mr. S. Marshell, King Co., who is as he says
ne of our first sabscribers, has sold his youn bull Accident, for a high price to Mr McCrea o
lowa, who is taking with him four Short-horned owa, who is taking with him
bulls and two draught stallions.
J. B. Isherwood Esq., Maple Hall, near Stock of onr paper, for his teanants in Cheshire, state that they consider it the best Agricultural paper the
have seen, and are always anxious for its arrival.

We cannot give insertion to corres? ondence of parties who withhold their names from us. We have received al etter from Carlingford, anowing who
rom Lobo, and we have no means of knowin the parties are. While thanking onr correspon dents for their communications, we must request of them to be briet in

The value of the Adrocate as a me lium of correspondents on topies of interest to farmers is more
recognized every issue of our paper. From almost every part of the Dominion we have contributions, and even beyond its limits. We insert to day communication frome one hasure to place on our list of regular carrespondents. Our paper is now rich in the correspondents of practical men, and will be happy to insert correspondents from others who have not yet written for us. It is only necessary that they be succiuct, practical, and to the point.
We need scarcely say that we do not hoid our selves responsible for all the opinions of our cor respondents.
The high
The high price of farm hands in this county Lenaure, is agitating the farmers a yood deal,
and has been a matter of discussion by some of the
lubs. It was the question under consideration at
clab and the he last meeting of the "Lenaure Club" and the
hollowing aredsome of the leading arguments, for, and against the price paid.
Mr. Edson Walker, was the first speaker, and
aid his opinion was, that the farmers had paid too said his opinion was, that the farmers had paid too
much for the quality of help hired. There was
. muchiscrimination enough between good and poor
not
laborers. Two men will often claim the same
and wages, because it had been made a sort of sistandard
price; yet there might be and often was
month difference in the value of their labor.
There were men to whom he would be willing to
pay $\$ 25$ per month, while then in many others who pay $\$ 25$ per month, while then in many others who
would hardly earn their bread. With some of the wound it was about all they could do to pay their
fared helps, and taxes from thsir seasons farming.
hired W. J. Jones said it cost a large amount to support the fashions, and style of the day, and our
young men and women, who work but for their young men and women, who work but for their
living, must have high wage so they can keep up
with those who have money. with those who have money. He argued with Mr. Walker that there was not
difference enough in the price of skilful and undifterence enough in the price of skilful and un-
sikifullabourers; and that too much had been paid
for the quality of labor received. W. H. Colvin for the quality of labor received. We H. Covin
said, he thonght if we were all expecting to hire
out by the month on the farm; there would be a said; he thonght if we were all expecting to be a
out by month mon the farm; there would be
little different argument ly most of the speakers little different argument by most of the speakers,
and the effort of the clubs cuts down the wages of and the effort of the clubs cuts down the wages of
their helps was bearing down a little hard. If their helps was bearing own a a aood farm hand,
any man earred his money, it was at tho
who was called in the morning at oclock, and put who was called in the morning at 4o' ${ }^{\prime}$ 'lock, and put
fourth till $90^{\prime}$ clock, at night and all for $\$ 20$ per fourth till 9 o'clock, at night and all for $\$ 20$ per
month. The trouble was not so much the price pain, as it was the management of the farm, that nen could not make farming pay.
Mr. J. A. Rodgers, asked why it was that we
could hire only drones to work on the farm? It was because all active enerjetic young men, cou ind other employment that would pay better.
Hired girls in the house, have to work hard all Hired girls in the house, have to work hard all
the time and practice close economy, to earn the time and practice close economy, to earn
enough to cloth themselves, with no hope of laying up a cent.
Mr. C. W. Jones thought the trouble was, that
armers paid too much the going price, without refarners paid too much the going price, without re-
quiring a certain standard of work to earn a certain price, Laborers should be encouraged to
qualify themselves for their business and earn proqualify themselves for their business and earn pro-
motion by an effort of success. He would not notion by an effort of success.
lesson the wages but improve the helps.
Mr. Martin
Mr. Martin Bowerman believed about as Mr .
Colvin did, and that wages were low enough for Colvin men, but he did not mean these 'tiramps"
that came along, It costs just as much to bread a por hand as a good one; while one earns his wages, nd the other does not earn his bread.
C. W. Holmes said he too thought there was
not distinction enough made, between first and
second class helps. The president said he had second class helps. The president said he had
paid last year $\$ 2$ per mer month for one hand, and paid last year $\$ 27$ per month for one hand, and
found him a cheap hand at that. He knew his
business, was trusty and faithful, young men should business, was trusty and faithful, young men shooid
be encouraged by gool wages to become efficient
workmen. A high standard of labor should be reworkmen. A high standard of abor should be ree
quired, and so long as other enterprises offer greater
ind inducements than
to get good helps.

Alrian, Mich. Feb. 9th, I874.

## The sipiaty.

## Wax and the Honey-Conb

Comb is made of wax, and when new is very the body of the bee, and formed only when the bee is richly provided with food, like fatin the higher
order of animals, but with this difference tha while o the fat grows upon the animals without their knowing it, the $p$
optional with the bee.
It is fully in the power of the bee to make wax
But if they are put make any. new hive have without any combl before they into a store away any honey, in order to produce wax
the worker-bee takes in considerable more pollen the worker-bee takes in considerable more pollen
and honoy, but of which constitute their food, than is necessary to appease hunger. These matexais are thoroughly digested and pass into the
blood, from which it is secreted of wax, in form of thin white scales, between the segments of the alncomen. As soon as the secretion of wax ha
commenced, the bees begin at once to use the wa
flakes for the construction of comb. This comb
building always begins at the top of the hive to the centre of the cluster of bees, and if it be a rame hive, they will commence at the top-bar, and if
they are supplied with guide combs, they will they are supplied with guide combs, they
usually build the comb straight in the frame. Mow, if the swarm of bees are supplied with
ready-made comb in frames, it will not build any, but only clean out the old comb and repair but only clean out the old comb and repair it, and
commence filling it immediately with honey, pollen comd brood. By supplying them with old, comb,
anou assist them very much, and they will fill their you assist them very
hive in a short tims.
It takes about twenty pounds of honey to make one pound of wax, and according to this rnle wax
ought to be worth $\$ 5$ per pound when honey is werth twenty-five cents. But wax only sells for thirty cents per pound. I have sol. 1 in five hives
more than 2,000 pounds of honey, and during the ame time but ten pounds of wax.
I save all the comb I can and give it back to the If it is a worker brood comb I fit it in the frames;
If it is comb which I cannot use in the If it is comb which I cannot use in the boxes or in
the frames, I put it in a shallow box and set in the the frames, I put it in a shallow box and set in the
the sunshine, and as the sun melts, the wax, the bees carry it back to the hives, and I have every

## Voices from the Bee Hive

interpreted by m. quinbi An acquaintance for several years with the Queen
Bee and her numerous subjects, and a close atbee and her numerons subjects, and a close atlieve that I can faithfully report what is done have what answers them the purpose of language, but these reports will gi
much as what is heard. How cold the weather is? No man unless he be
a perfect coward, will be afraid of stinging at
this season. Indeed, it is the fault of his own care. this season. Indeed, it is the fault of his own care lessness, if he ever gets stang at all. We love
warmth, and the colder it gets the closer we cluster together. One of us, exposed alone at freezing
temperature, would soon grow stiff, and then die outright. If a half dozen were grouped together,
they could endure it longer, as they would help to they could endure it longer, as they would help
keep one another warm, but the heat created by
these few bees would amount to very little; we must be in a large cluster in order to help on another much. The bees of a full colony create
heat enough to allow us to withstand the coldest weather of this climate, for a short time at least the more there are of ns, the warmer we are. The
colder the weather, the denser we cluster. colder the we outside have the worst of it, what
those on the ever they may do, their backs will be cold, and
unless they can change places with some of those on the inside, they must drop, and expose the next
below them to the cold air. We understand this, and as soon as those on the outside become chilled they change places with others on the inside or
the cluster, and sn matters are equalized. The colder it is the more we must eat to keep up the
animal heat, and food must be close at hand, and we must change places so that each one can get his
share. A family of us clustered between the combs, generate no little heat, which is confined by the hive, consequently the air which surround
us, provided our hive be properly built, is ver mach milder than that outside. It the tempera ture is such that we can change places frequently,
we keep in perfect health. Our food being honey, is of course, liquid, and if the temperature is not to low, much of the watery portion of this passes of
through the pores of our bodies, and the solid tion is evacuated in the dry state. As long as wo are in health, this natural condition of things con-
tinues. The bee-keeper can readily know our sanitary state, by exanining the bottom board
the hive; if he finds one single drop of liguid e crement, he may be sure that one of us is sick, and if there are several drops, there is trouble portion to the amount of disease. My physicians tell me that they know of no other cause of diarrhoa,
than low temperature, and that when the cluster is large enough to sufficiently warm the interior of the hive, the disease never occurs.... But in the ex-
treme cold weather! yes, there is where we have the most trouble, especially if it is long continued You who have stoves, can warm not only yourselves,
but the air round us, which is constantly getting
cool from contact with the cold sides of the hive.
When When it is so cold that the evaporation can not take place through the pbres of our body, no matIn where the hive may be, then disease appears.
In the open air the sun would shine upon it for the most of the day, and the little
warmth that would strike through the sides towarmth that would strike through the sides to
gether with what we could make ourselves, kep gether yterior warm enough to allow us to change
the places frequently and to keep in perfect health:.
People should consider the temperature in shadin. People should consider the temperature in shading
the hives; I know that fewer bees are lost on the snow when the hives have the full suu, than when
they are shaded. In your living rooms the air is they are shaded. In your living rooms the air is
full of vapor; you do not notice it until the out full of vapor; you do not notice it until the out
door air cools the window glass, so that the in-
visible vapor visible vapor condenses upon it; now the same
thing takes place in the hive. When the external thing takes place in the hive. When the external
atmosphere is very coll, the air of the hive comes atmosphere is very coll, the air of the hive comes
in contact with its sides, moisture is condensed,
and even the and even the combs that are not kept warm by
the clustering of bees upon them, become so cold, the clustering of bees upon them, become so cold,
that the moisture that our bodies give off to the air of the hive, condenses upon them. At first the
moisture is in exceedingly small particles but they noisture is in exceedingly small particles, but they
increase in size and number, and finally run to gether, and form drops large enough to run. A
comb kept moist in this way will finally mould. I comb kept moist in this way will finally mould. I
the cold continues, these drops freezing the cold continues, these drops freezing upon the
outside combs, or fall upon the bottom, and freeze
there, and if the opening of the hive be ame there, and if the opening of the hive be small, it
may freeze there, cutting off all ventilation, as a may freeze there, cutting of all ventilation, as a
consequenece of which we are all smothered. When
theoutside airis at 50 . ${ }^{\circ}$, we have no trouble forthen the vapor passes off through the small openings, and a very small cluster will safely pass the winte
at that temperature which would fail in the open air...It we are housed pray do not make un too
warm, and above all, let us be quiet. If we are in warm, and above all, let us be quiet. If we are in
a warm place, the least excitement among uscreates much heat. I know of an instance, in which one
of our families were placed in a ren of our families were placed in a room, and so close
that not a bee could escape. So long as it was quiet, they were comfortable and happy. But some children hall a frolick in that room, and their them was ruined. If those who find it necessary to move hives from a cool to a warm situation, Would be careful of their movements, and not dis-
turl us with the least jar, we will be all the better ....Many stupid or indifferent people undertake to keep beee, who have not the least idea of what honey we do not need for winter, but such people do not know how to allow us to give it to them.
dray tell all who do not like bees, ray tell all who do not like bees, and who do
not care enough about us, to study our
ways, and understand our nature to our as aloue. Such persons who do not begin they, are wrong, but will persistently follow their own way, must not complain, if we do no more for them than we can help, and if, when we see them
going wrong, we will use the only language they will understand -a sting - to oremind them that
hey are not treating us properly. - An they are not
A!priculturist.

Which is the Best Form of Tile: Any one who has observed how sensibly the rriction of the banks retards the velocity of the aljacent water in rivers-a slight curve in the bank producing an eddy or counter-carrent, and a bend causing such an accumulation of drift-wood its banks and cut a new channel-will be convinced that a tile drain should be as straight and smooth as it is possible to make it, and that the form of the channel is not a matter of indifference. The history of tile-draining shows a gradual improvement in the form of tiles used. Had any of the preceding forms fully answered the purpose, there would have been no new forms derigned, for each machinery, and its introduction has been opposed by the very class it was designed to benefit. It is a common saying that "necessity is the mother of tions are made to supply the demand of the people when the best inventions are in advance of public
sentiment. It is probable that the first form of tile used was the brick tile, molded similarm to
our slop brick, and laid flat side up; after this the
orse-shoe tile, having the same internal and bearing surface, but being the same internal and bearthp hovement devised was lowing this was the tile, which resulted sole and horse-shoe til年 one piece, and made the use of a con sus-
pended in the die neecessary. The objection to sides and gathers in the angles, rendering them
hable to become obstructed. All form having a and persons of long experience in tile draining. current of water that would spread itself over the at bottom, and move slowly ylong, without powe
to move any sediment, would in the round tile orm a current that would carry the sand with it. Many who considered this laid the flat gide up, The next step towards perfection was making th bore of the $D$ tile round. The flat bottom being stin to facilitate laying in the trench, but because
not
it it was difficult to mould it without a flat bottom with the machinery then in use-stronger ma-
chiaery, more power and stiffer clay must be used to make a cylindrical tile. Manufacturers find it difficult to make a straight tile of this form. On he tiles being laid on that side to dry, the upper othat when laill on the flat side in the trench

-shaped opening between the enls of the tiles.
Eventually these depressions fill with sand, and the channel becomes in about as bad a shape as can these defects, many lay this form of tile on the side, with the Hat bottoms first on one side and then on the other, forming a series of lateral curves,
thus making a better joint and a much leeter cha nel.

$\checkmark$ arious methods have been tried by tile-makers to prevent this warping. Some make them thinmakes them more liable to crack in the burning ; others make them nearly square, so as to have an Experience in manufacturing has determined that if there be one tlat side, the tile should be a regu-
 better than thehexagonal for the following reasons
They will set to botter advantage in the kiln,
and bear transportation
and bear transportation
better than other polygonal forms. They are
readily packed, so bearing upon the whole of their exterior surface, and like wedges one agains the other, so that they cannot vibrate. Tiles ar cussion from vibration.
Nature has taught us, in innumerable ways with the greatest strength is the cylindrical form Tile of this formdry with
less liability to warp, burn with less breakage, rest to better advantage in the kinc are better to lay in the trench,
and will bear transportation and wil bear transportation
better, than any other form.
When piled or packed When piled or packed for
transpation, they naturally
 and bear a compact position,
umference. Abundant ath six points in their cir that the round tile is the best form of tile If the objections to other forms are well founded, they not trifling. If we would excel in our work, wo wust pay close attention to det
work has every part perfect.

## Garden, (OxClutd amd forest.

Successful Plum Culture.
It appears to be a settled fact that plum culture is at length to be a success in this country, in spite
of the continued opposition of the curculio. This
this enemy does not seem likely to be vanquished, but
we are learning how to circumvent his operations we are learning how to circumvent his operations
cheaply and effectually, as applied to commercial cheaply and effectually, as applied to commercial
orchards, so that fine plums are no doobt shortly
to become abundant in the markets and the to become abundant in the markets; and the
wholesale growers are "yuite willing that the little wholesale growers are quite wiling dat com common
Turk should continue for all time to dete cont
people from growing this fruit, as the prices will people from growing this fruit, as the prices will
thereby rule enough higher in the markets to more thereby rule enough higher in the markets to more insects from large orchards.
Five or six years ago one or two enterprising
fruit-growers near Chillicothe,
$O$ fruit-growers near Chillicothe, o., commenced
planting Damson plum trees on the clayey hill
Dands of Ross county, setting two or three thin plands of Ross county, setting two or three thon-
sand the first year, and more the second and third, sand the first year, and more the second and third,
till now it is reported there are not less than fif-
teen thousand of the trees in orchards in that teen thousand of the trees in orchards in that
vicinity. Part of these have borne fruit the past vicinity. Part of these have borne fruit the past
two years, and the owners are highly pleased with two years, and the owners are highly pleased with
the growth of the trees and their product thus far
They are mostly of the variety known as the They are mostly of the variety known as the
Shropshire Damson; but there are some of the Shropshire Damson; but there are some of the
large kind of plums also yrown in the vicinity
There are some smaller orchards of Damsons an large kind of plums also grown in the vicinity
There are some smaller orchards of Damsons and
Prunes, and also pretty large ones of the Wild Prunes, and also pretty large ones of the Wild
Goose plum in other place of Southern Ohio,
promising to be quite successful. All of these are promising to be quite successful. All of these are
depending on the jarring method of protection agains
At the late meeting of our state Horticultural Society we had an account of the successful expe
rience of Messrs. C. \& J. Brown, of Huron county near Norwalk, $O$. They commenced four years ago last spring, planting at that time two thousand plum trees, on good, loamy soil, one-third of them other leading varieties. They have since planted three thousand more, making five thousand in all.
The trees first planted grew finely, and the LomThe trees first planted grew finely, and the Lom-
bards especially commenced to bear the third year and last year they bore an immense crop, some of
the trees as much as two bushels each of fine the trees as much as two bushels each of fin
fruit-(,uite too much for their good-the whol frut-quite too much
700 trees averaging fully a bushhel each. The other varicties also bore some, so that the sales were
very little short of a thousand bushels, and the very little short of a thousand atsholesale.
how they catci the curculios.
These gentlemen have invented a curculic
catcher which is considerel superior to that of $D r$ catcher which is considerect superior to that of Dr
Hull or any other that has been describel, though perating on the same plan as that of Dr. H. and others. It consists of a frame of muslin, about
eight feet in diameter, in the form of a wide cone or hopper, the lowest point near the middle; and under this is a tin can or slide, into which the
beetles roll after falling from the trees, and are beetles roll after falling from the trees, and iare
kept till the orchard has been gone over, or it is
convenient to empty them out for cremation. This apparatus is mounted on a pair of light wheels,
with a cross-bar handle for pushing it along; and in the front part of the canvas is a slit, which opens by means of a lever connected with the
handle, so as to let the body of the tree pass in,
then it closes around the same while the tree is jarred.
The jarring is done with an implement in the Corm of a crutch, bbout eigene with rubber to prevent bruising the bark, and care is taken not to strike, so as to do mischief in that way. It is carried on op on that $r$ uns the ma chine; or, if preferred, another man or boy goes along and does the jarring.
The Messrs. Brown inform me that in going
over their orchard of 2,000 trees the past season, they used three of the machines, one man to each, and they jarred the whole of the trees twice each day. One aotive man with the machine can jar
600 trees in four hours, or nearly at the rate of three a minute. Of course when the trees become
large will take a longer time, as several branches large it wil take alonger time, as several branches
will have to be jarred separately. The jarring was commenced as soon as the young truit was
out of the calyx (in May), and was performed once a cuy at first; then twice a day as soon as the cur
culios appeared numerous, and continued for a culios appeared numerous, and continued for a
couple of weeks, by which time they almost entire-
ly ceased to be found-the whole number of jar-
rings being ouly thirty. It may be, however, that
as the orchards grow older the jarring will need
to to be continued somewhat longer; and in localities
where there are old peach or plum orchards in the where there are old may be more troublesome.
vicinity, the insects m. B.

## Hot-Beds.

Select a site having a good aspect, south or south and west, secured from the chilling blasts of the
north and north-east. Dig a pit as you would for storing roots, of such dimensions as will give you what plants you need-say five and a-half feet in width and from eight to twelve in length. Sueh a size is most convenient, as it is easily covered and uncovered. Let the pit be one to one and a-half feet in depth. The hot-bed is ofen made on the surface without digging a pit, and, if the
ground be not sufficiently dry, it is better to do so but, if dry, there is, in the bed being sunk, the advantage of the surrounding soil assisting to pre serve within the bed a more equal temperature and desirable moisture.


Having prepared the site, the first requisite is a good supply of strong manure. The best is that from the horse stables. It readily acquires the re down degree of heat for forcing vegetation. Lay place marked out for the hot-bed, and after a few days it will be in a fit condition, having begun to ferment. Make a frame for the bed of inch or inct and a half plank, a rough, strong box, open at to and bottom. Then cone manure with a fork thoroughly, and then putting it in successive layers on the whole surface of the bed. Lay layer upon ayer to the height of two and a-half or three feet. Every layer is to be beaten down with the fork, thus $m$ insice trodaen down compact. Having close it till the heat begins to rise. Then lay on about six inches of rich, clean garden mould. To have it fine, we put through arth becomes warm. The condensing on the glass of the steam arising from the bed, will be a good indication that the proper time has arrived, and this is generally in twenty hours or so. Care must be taken to give the young plants plenty of air when the
but not to such a degree as to chill then.


Figure 3
hot- BEL OR COLD
See Fig.
A cold frame differs from the hot-bed in not having the heat of a bed of manure for forcing the sash placed on a bed of light, rich earth, in a part of the garden having a southern aspect, screened The cold air being excludeal by the frame, and the
heat from the sun retained, the earth becomes heat from the sun retained, the earth becomes
warm, and an earlier vegetation is promoted. Not harm, and an earilier vegetation is promoted. Not having the artificial heat of the hot-bed, it so so earlynot earlier than late in April. It will be necessary to water oceasionally, and to admit air when the day is warm and bright. Figure 2 represents a frame with laths nailed
across it. ${ }^{\text {By means of this simple device, beds }}$ across it. By means of this simple device, beds may be easily covered with boughs of evergreen or
other shade, to retain in the earth the moisture so necessary for vegetation. They may be kept cov ered till the young plants make their first appear ance. After that light is unnecessary, but not be fore. Seeds are frequently sown in pots in the house, and do well with care. It is better to have a rim of moss in the box, or anything that will re
 and earth mois
Figure 3 repre Figure 3 repre-
sents such a box sents sucha
with pots. Figure 4 r
presents the seeds in a box. They are sown, as seen, in even rows. We have generally transplanted young seedlings from the hotbed, as soon as they would bear removal, inom too much exposure; the plants thereby become hardier, and make more and better oots. The additional trouble and time are well paid by the better growth of the
 Before sowing seeds in the
hot-bed, seethat it is of the pro-
per tem pera-
ture. Por this, we put a dible to the bed, and
when it is taken up, the heat in the bed is know: rom the heat of the dible.

## Peach Culture in Delaware.

Dr. Steworre's System of Peach Culture

## planting

He prefers fall planting, in rows twenty feet each way. Advises that the plow shall run twice
in each furrow, and throws up subsoil from the crossing. Fills the hole with top soil slightly above the level of the field. Places the tree upon
this mound, and piles the top soil a foot over the this mound, and piles the top soil a foot over the
roots; during the winter it will settle to a level roots; during th
with the surface.
cutting back
Cut off the tree to the height of a walking-cane after it has put forth in the spring, but do no
wound or depress its vitality while struggling fo existence, allow it to get a start, and new roots to form, before subjecting it to the shock of decapita
tion. He applies a shovelful of strong ashes close tion. He applies a shovelful of strong ashes clos
around each tree every spring, until the third o fourth year; also, as much more to the hills of
corn between the trees which crop by this treat corn between the trees, which crop by this treat
ment improves annually, whereas, by he usual practice, the corn crop deteriorates, and the trees are robbed, but do not manifest it
ing season demands a special effort. He has observed that the ashes produce no sen-
sible effect upmon the trees unthl the seond year:
but its effect upon the corn is distinct in a few but its
days.
Soda refuse is worthless as a substitute for this purpose, and unless the ashes yield 12 per cent. of
salts of potash, more should be used. Some that salts of potash, more should be used. Some that
he has tested only yielded 4 -llths of 1
He mulch.
with coarse manure close around the trunk in the spring; applying it
April after the buds swell and blossoms appear but before the peach moth deposits its eggs. . Im-
mediately thereafter it should be "tied" to the tree by throwing a furrow towards the tree two opposite sides, or by shovelling the surface
soil so that the mulch embraces the stem a foot

March, 1875 bore the even of th
nding its way

no to th | noding turn wayrod |
| :--- |
| of the arth barred $b$ |



During the firt
rainent
assumet
 nabled ed of row rowine


 ting ba The trees ordinar being planted on
level with surface of mulching with
around the trees, th beyond a few feet plowing also brings
roots which extend always been observe
circle around the tr of manuring in the whole grou.
this State.
In the fall, remo around the trees,
cut a drain from each tree into th
basin is filled up in basin is filled up in
plied, which tends as the season adva The bud on the
put forth to anti put forth to anti
necessary, and doe
of its native count of its native count wrappings of vege
speedily to respon The less the pr envelopes, the less
climate irregularit when the tempera safe; but, even th
ing a higher temp prg a higher temp
protection of the
thickness, and thi ts efforts, to matu In proportion as
animal, has a high winter, but when has less ability quently destroyed A small deficie
will turn the sc will turn the sc
lozen old persons dow degrees reduc while fifty in t
vigorous. It has
ng of an orchar without a single
offers every ind
those who choose This system is physiology of th
any specific to in any specitio to in
success upon the elements and the
and plow.-Rura a
We regard th Sun, as both se
say, however, th say, however, th
the importance o important, also,
well-defined pla caricature natur gent observer :-
above the level of the ground. The peach moth,
finding its way to the soft bark below the surface finding its way to the soft bark below the surface
of the earth barred by the mulch, eposits its egs
in the manure, where they either fall a prey to in the manure, where they either fall a prey hard bark, and sunfer the consequence of misplaced
confidence in barking up the wrong tree. The confidence in barking up the wrong, tree. The
peaich tree is subject to many disorders, but it need peinch tree is subjec
not "have worms."
pruning.
During the first years the trees should be
trained to assume the form of a wine glass with open head. He then cuts back two deposite sides open head, He then
of the tress, removing all the bearing wood, and is
enabled to plow close to the trees in the direction enabled to plow close to the trees in the direction
of the cutting. The orchard is thus plowed for two years, turning the furrows towards the trees.
After two years the uncut sides of the trees are rrimmed as before, and the plowing follows, turning the furrows towards the trees at right angles
with the two previous years. This system of cut-
ting back and plowing is alternated every two ting back
years.
The trees ordinarily present the appearance of being planted on mounds, whereas really on a
level with surface soil. By following this system of mulching with manure, and the use of ashes around the trees, the feeding roots do not extend
beyond a few feet from the tree; the system of plowing also brings the top soil to the tree, and always been observed to turn back to the manured circle around the trees. This is on the principle of manuring in the hill, instead of enriching the
whole ground, which is virtually impracticable in Whole grou
this State.
keeping back the buds.
In the fall, remove the earth with a spade from
around the trees, but do not expose the roots, and cuta a drain from the basis thus formed around each tree into the dead furrow beyond. This
basin is filled up in the spring and the mulch ap-
plied, which tends to further retard the flow of sap basin is filed up in to fu
plied, which tends
as the season advances.
The bud on the peach tree is an excrescence
The put forth to anticipate the season, and ser season of its native coantry, Persia. But there the germ is projected beyond the bark, and encos the more
wrappings of vegetable tissue, in order
speedily to respond to the advance of the season. The less the projection and the thicker tissue
envelopes, the less the danger from late frosts and envelimate irregularities. It can hardly be said that when the temperature is below zero any bud safe; but, evenerature of the germ, und 3 r th protection of the bud, depends on its size and its efforts to mature, even during winter months In proportion as a a tree is vigorous, it, like an winter; but when weak from insufficient nutrition
it has less ability to resist cold-and not only the germ in the bud, but the whole fruit spur is fre-
quently destroyed. quently destroyed.
A small deficiency in the element of nutrition
will turn the scale, precisely as the death of a will turn the scale, precisely as the death of a
dozen old persons in a hospital is determined by a few degrees reduction of temperature in the night, vigorous.
It has been demonstrated by a successful fruit-
ing of an orchard during the past seven years, without a asingle failure, that the foregoing system
offers every inducement of certainty of crop to offers every inducement of c c
those who choose to adopt it.
This system is based more upon the peculiar physiology of the peach in our climate than on
any specitio to insure the fruit, and depends for its success upon the application of proper nutritious elements and the judicious use of the knife, mulch and plow.-Rural New Yorker.

We regard the following, from the New York Sun, as both sensible and timely. We wish to say, however, that whimere the no eimportance it is very important, also, not to overlook the necessity of a well-defined plan or system-one which will not
caricature nature, and cause regret to the intelligent observer:
"Farmers hold various and widely differen
opinions in regard to the value of shade trees upon
the farm. Much however, depends upon a man's
early life, associations and education, all of which the farm. Much, however, depends upon a man's
early life, associations and education, all of which
ave their influence in forming a taste and love arly life, associations and eding a taste and love
have their influene in formine
or the beautiful in nature and otherwise For the beautiful in nature and otherwise. Some
men can neither see nor admire anything except nen can neither see nor admire anything exceps,
from a utilitarian point of view, and this, perhaps,
in its most circumscribed aspect-a tree to them in its most circumscribed aspect-a tree to them
ing worth only what it will fetch for timber or being worth only what it will fetch for timber or
firewood. These utilitarian notions are far too common in all new conntries covered with heavy
timber, and the habit which is first formed hrough necessity becomes so direnness of landscape frequently follows, Where an opposite result might have been secure: Without cost to the original owners of the land.
The first generation of farmers destroyed that which the next two or three restore only in part, these are by-gone follies in the older States, we have only to take care of what is left of the old
andmark andmarks, and put out new trees whenever they
are likely to be valuable or useful; and in doing so the subject of shade trees upon the farm should
be considered as carefully as their value as timber, or for the fruit which they may produce.
The contrast between two regions of country,
the one with trees judiciously distributed, and the other without them, is sufficient in itself to make any man favor the former. The generally attrac
tive apper tive appearance of a country is certainly one of it
strong points, and mankind cling to things of beauty quite as tenaciously as to those of strict usefulness and intrinsic value. Nomadic races
seldom inhabit hilly, mountainous or wooded counseldom inhabit hilly, mountainous or wooded coun
tries, for these tend directly to a fixedness of purpose, and a love of one spot which we term home. A rock, hill or tree is an object which clings to tha
memory of both civilized and uncivilized man. This idea may seem somewhat sentimental, but it
cannot be denied that it is very potent in its influcannot be denied that it is very potent in
ence upon nations as well as communities.
trees about farm buludings.
A goodly number of shade trees about the farm the place, as also to the comfort of man and beast during the hot days of summer. But many make trees mear their dwellings, which in time exxadade
both light and air, and cause the building standing onstantly in the shade to become unhealthy. I preferred to evergreens, when planted in positions
hkely to shade the house, because it is only in hot eather that shade is desirable, and in are require or both comfort and health. As a rule, we would say, keep all trees of larger growth using the intervening space as a lawn, in which may be planted mall-growing trees and shrubs. Evergreen trioe hould be employed exclusively for on
or as windbreaks, but never for shade.
trees in pastures.
It has been frefuently urged that trees in pas-
tres encourages laziness in animals, for when such comfortable retreats from the hot sun in sumat these resting-places. While it is true that animal instinct may not be any surer preventative
anainst indiscretions in the dumb brute than in against indiscretions in that in all ruminants digestion proceeds more regularly when the animal is
comfortably at rest, than when subjected to opposite conditions. Animals a trear when the heat is
seek the cool shade of a the oppressive, and it is cruel, to say the least, to de-
prive them of this comfort. We have always prive them of this comiort. We comfable resting.
noticed that animals having a com place during the hottest part of the day would feed later at night as well as commence earlier in
the morning ; conseguently, we fail to see wherein shade trees in a pasture are detrimental to good health or the fattening of animals, as is some the
asserted. There are certainly two sides to this asserted. There are certamane practice would be question, but the more humane practice would
to provide shade, to say nothing of appearances. trees on the roadside.
Continuous rows of stately trees along the road country. But it is urged that shaded roads re main wet and muddy much tonger after heavy
rains than those fully exposed to the sun. This is
donbtless true but doubtless true, but as an offset we may claim that
they are less liable to become dusty, and between
trees only should be planted along roadsides in
cold climates, because they afford shade during cold climates, because they afford shade during
the season when most needed, if at all. Roadside
trees may also interfere with the trees may also interfere with the growth of crops
in the fields adjoining, by shading, as well as by in the fields adjoining, by shading, as well as by
the absorption of moisture by their roots; but as we can scarcely secure anything of value without
some loss, perhaps the pleasure derived from pass. some loss, perhaps the pleasure derived from pass-
ing over a shady road during the hot weather in ng over a shady road curing uetiful appearance of
summer, as well as the beate
soch highways, more than compensate for the such highways, more than co
slight losses which they entail.

## Gardening and Farming

 Do they not mean one and the same thinging and by very deep and frequent cultivation 1 can detect no difference; the object is to gainthe most perfect and profitable development of the the most perfect and profitable development of the
plant, whether in flowering or seeding, and thi Wrings me to the consideration of deep,cultivation What should we say to our gardener who allowed
his flower pot, without a hole at the bottom of it, his flower pot, without a hole at the bottom of it,
to be half-filled with dense, undisturbed stiff clay and then put into the upper half a few inches deep
of friable, manured and cultivated earth? When of friable, manu the clouds or his watering-pot had she rain from the clouds or his watering-pot hace-
saturated and passed through the friale surface
soil, where would it then be found ? Why, cer soil, where would it then be found? Why, cer
tainly, in or on the dense, undrained, unmoved tainly, in or on the dense, undrained, uards, as
subsol, its only mode of escape being upwate
vapor through the surface soil, carrying with it to vapor through the surface soil, carrying with it $t$
the open air, as latent heat, the warmth that sho open aid, invigorate and perfect the growing plantthe great British agricultural undrained Hlower-pol and its contents are thus clearly and idealisputa or guess-work
described. There is no ideality described. There is no iked facts stand out in
about the matter; the naked fate
bold and unmistakable relief. The $15,000,000$ or bold and unmistakable relief. The $15,000,000$ o (for all farmers' crops bloom or flower) exist as great national mistake and disgrace; and equall blameable is the miserable five-inch agricio, and
pie-crust-for every one may learn by digging and very farmer ought other farm crops, and especially autumnown wheat, descend deeply, and much beyond
he plowed soil, in search of moisture and food and it is becauste this subsoil is neither acrated and
annured that the wheats "go off" in May. This manured that the wheats "go off in May. This
is also oten caused by too thiok sowing, and the
Does not thin confused competition of roots. Does not thin sowing and plant room form an essential principle
in the gardener's practice? If he desires a full, in the gardener's practice? If he desires a full,
modern, perfect fruit, how carefully he thins out modern, perfect fruit, how carefrevent undue competition and diminutive results. So does the
farmer with his turnips-but why not with his corn, for wheat plants require space? The twenty rods of laborers 'cottage garden, deeply cultivated
and highly manured by one pi, or 800 pounds of and highly manured by one pig, or so pounds of safely followed on the largest farming scale, pro.
vided, of course, the necessary capital can be found. Our country is still not half farmed. It is the maximum crop that diminishes, pro ranub
the fixed charges of the farm, including manual labor, and, of course, there is a will there's a way;"
profit. "Wher lat when landlord and tenant believe that
so that so ehat when landlord and targer return upon diminished area, agriculture will present a more Mechi, in the Farmer.
Manitoba as an Agricultural Country According to the New York Inclependent, Manitoba, count of its fur business, has fine alricultural capa cities. It is said to be one of the finest whea alluvial mold, rich in organic deposits, and resting from a depth of from two to four feet on $\& \mid$ tena-
cious clay soil. Some of the fields on the Red River produced forty successive crops of wheat withou
fallow or manure. The yield has reachad as high ailow or manure. The yied has roached as high
as fifty or sixty bushels, even under the farming of the native. Last year oats averaged sixty bushels to the acre, weighing over forty pound
bushel. One farmer raised 350 bushels of potatoes from seven bushels of seed, and the root crops generally yere good. Among the vegetable products
Yer parsnips, carrots, cabbayes, melons, beets, pumpins, squashes, celery, lettuce, spinach, cauliflower kins, squashes,
and cucumbers.

The Flat-Headed Apple Borer.
From the Prairie Farme
Considering the fatality of its. work, and the
number of valuable fruit and shade trees which it attacks, few insects are more to be dreaded than this flat-headed apple tree borer. Our oak trees
die from year to year. Inquire the cause, the answer is year to year. Inquire the cause, the of civilization !"' Search for it yourself, and you
will find that Chrysobothris has more or less to do with the death of such trees. The townsman prides himself on the thrifty growth of his soft
maples or sycamores, that are to give him the maples or sycamores, that are to give him the
shade from the midsummer sun, adorn his lot. or
line the front of his residence after line the front of his residence. After a thrifty growth of two, three or more years, one of the
trees suddenly dies, and others soon follow. The cause is discussed -drought, packed soil, poor nourishment, and a dozen seemingly plausible rea-
sons are conjured up-and ashes, or some other sons are conjured up-and ashes, or some other
mineral or vegetable substances, are placed around the butt, in the vain effort to save the remaining trees. Pull off the bark, however, and the real
cause is readily discerned, for the surface of the cause is readily discerned, for the surface of the
hard wood is literally covered with hroad, shallow
channels paeked channels paeked with saw-dust like castings-
channels which Chrysobothrix, ungeen and channels which Chrysobothris, unseen and unheard
has been making, perchance since the tree wa
during the latter part of May, and is found all
through the summer months. The eggs are laid by the female, by preference, under the loose scales, or within the cracks and crevices of the
bark, several of them being not unfrequently fark, severaler. The young larve hatching from
fhem gnaw through the bark, and feed upon the them gnaw through the bark, and feed upon the
liber, boring broad and flatened channels, and
very very, boring broad and flattened chaunels, and
very soon thing the smaller tres. When its
jaws get stronger, it ussally bores into the more jaws get stronger, it usually bores into the more
solid wood, working for awhile upward, and when about to transform it invariably cuts a passage ack agam to the outside, leaving but
covering of bark over the whole. It then retreats, and after packing the excrement around the so
to form a smooth cavity, changes to the
state. The pupa, at first white, by degrees ex state. The pupa, at first white, by degrees ex-
hibits the colors of the future beetle, and in the course of about three weeks the latter gnaws its way through the thin bark door,
it had left, closing its passage-way.
It is a singular instinct this, that teaches the larve, which has powerful jaws, to prepare for the
exit of the beetle, which has much more feeble exit of the beetle, which has much more feeble
ones, and this instinct is most strikinglyillustrated
when the infer ones, ane tinfested tree is surrounded with some
when the
covering, like wire gazee which is proof against
even the jaws of the larye. In such an event,
in ivy screens, or as specimens in drawing-rooms,
when others happen to be scarce. They are clean, hen others happen to be scarce. They are clean, bloom only is open whery gathered, all the others blom only is open when gathered, an the others,
to the very top of the spikes will open freely with care. In vases of cut flowers the gladioli are generally
improved by good grasses being intermixed with improved by good grasses being intermixed wit
them; for example, we have cutting to put roun the sides of the graceful Millium multoflorum and Piptatherum Thomasii, and for the centre Paniceun
fimbriatenus. Perhaps the most effective are among the numerous summer varieties, as Agrosti laxifolia, which, when introduced neatly amon the glads of wavy silk, clustering round as a protec tion to the blooms, and through which they appea to interesting advantage.
Our method of planting is the same as a Devon
shire farmer plants his potatoes. shire farmer plants his potatoes. The ground is
double-dug in winter, and at plantin time trench is taken out one spade deep then put in, covering a little soil over the top, an
upon this is placed a good coating of manure and leaf mould mixed, the manure being fresh and warm,
Is we find thatold rotten cheesey lis we find that old rotten cheesey looking manure
hrings disease, and does not push the young growth
so vigorously and quickly as fresh manure.

scrar of d. m. frrry asd co.'s berbd parm, dptroot, micti.
first set out. Mountain ash, linden, box elder, beech, plum, pear and peach, alike succumb to its
attacks, while the apple is so subject to its injuries that no man who does not understand this enemy and is willing to give some little time to masterin, him, can hope to succeed in growing apple trees
in Missouri; and, in reality, the time and money spent in planting young apple orchards in the ally wasted for want of the necessary precaution ally wasted for
against this inset. It has been more e especially in-
jurious and noticeable the present year, and comjurious and noticeable the present year, and com-
plaints of its work, with specimens, have, as plaints of its work, with specimens, have, as
before indicated, reached me from very many different sources.
TTS NATURAL history
The natural history of this borer is thus briefly
told. The beetle is very variable in size, and has been described under a number of different tames.
It is greenish-black or bronze colored, with metalli reflections, and the under side more coppery or brassy, The more characteristic features are two
irregular, impressed, transverse marks across each irregular, impressed, transverse marks across each
wing-cover, dividing them into about three equal lengths. This beetle, like all the species of the the family (Buprestida) to which it belongs, is diurnal
in habit, and may frequently be found basking in in habit, and may frequently be found basking in
the sun, on the trunks of those trees which it the sun, on the trunks of those trees which it
more particularly frequents. It begins to appear
even thongh the wire touch not the hark, the
larva will work its way through the latter, and larva will work its way through the latter, and
test, in every conceivalle way, the resistance of
the wire, and frequently succumb in the effort to the wire, and frequently succumb in the effort to
penetrate it. Yet, normally, this same larva penetrate it. Yet, normally, this same larva
would take every precaution not to penetrate the ${ }^{\text {bark }}$ Wheth Whether tr is borer remains in the tree nigh
upon one or two years after hatching, no oue has pon one or two years after hatching, no one has
definitely determined. The general impression is yat it acquires its full development in a single
year. Be this as it may, the larvar are found of year. Be this as it may, the larva are found of
dififerent sizes during the fall, and young ones not much over one-eighth of an inclo long may be
found in mid-winter. Yet in A pril and May be found in mid-winter. Yet in April and May by
far the larger portion will be found either full. far the larger portion will be found elther ulil-
grown or in the pupa state, and the above facts
indicate protractel indicate protracted and irregular period of egg.
depositin, rather than that two years are reguire depositin, rather than that two years are required
for development.

The Gladiolus.
We have no decorative flower so generally use-
ful as the gladiolus. It can be had in bloom all the summer months, or we might say, from May to
Christmas; and besides being a great favorite, it Christmas; and besides being a great favorite, it
can scarcely be used amiss for in-door decoratio
©nion Sced
In the pages of this journal we have given some accounts of the great centres of different kinds of is a welcome and well known vegetable to us all, though but few of us known what a large business is carried on to supply us with the little packages of seed for our gardens. Messrs. Ferry \& Co., of Detroit, are, we believe, the most extensive growers of onion seed in America. They raised ten tons of seeds on 50 acres of land the past season. The above cut was engraved from a photograph of he work in the fiel, but the bungling artist had much better than the above cut. This company employ from 200 to 300 women and girls in weeding the ground during the summer and packing seeds in winter. We paid a visit to their seed establishment in Detroit during February, and there we found about 250 women and girls, all as busy as bees. Some were making bags; others assorting and packing seeds. We being more accustomed

this rather a curiosity. We used to think 50 or extensive use as a roadside tree. For this purpose their earliest supplies from more southern lati60 men at a bee, with 10 or 12 yoke of oxen, was a $i$ is well adapted by its rapid growth, its handgreat sight, and we also thought that a great which it will flourish when once well started. \begin{tabular}{l|l}
amount of work was done when night came. This \& $\begin{array}{l}\text { And why not line our highways with fruit.bearing }\end{array}$ <br>
would only be a one day job on a farm once in a <br>
trees? the shade and the verdure, blossom and

 would only be a one day job on a farm once in a trees? the shade and the verdure, blossom and year; but here, in this seed work, 15 horses are besides the large amount of help spoken of before. esides the large amount on To see a long regiment, or school, of girls, all the Horticultural Societies. A striking feature in 

working in their different departments, is a sight <br>
that would astonish most of those that sow from \& $\begin{array}{l}\text { rows of frape of trees along thermany the highways, which, } \\
\text { from }\end{array}$ <br>
from favoring heights, spread their sinuous and
\end{tabular} the little packages. As Messrs. Ferry \& Co. make a specialty of onion seed on their farm, one would three hundred acres devoted to them. The done by this firm may be imagined when we were shown a bundle of 1,000 letters, which arrived the day before our visit. Some of our readers may wish to procure seeds direct frum the know of any firm that make much of a business of raising garden seeds in Canada. Mr. Otwell, of St. Mary's,

raises a few, as also do some others. We pre sume Ferry \& Co. raise more small seeds than ers combined. We were highly pleased with our visit, and lope to see more of these Ame rican establishments.

## Te Cherry.

 The cherry is one of luscious of summer favorite, yet it occupie in the market orchard of our land, and the supplies mainly come from originally merely with a view to family use The region in which sive; it has been and is $\Omega$ free grower, an earlyand profuse bearer, an and profuse bearer, an
well adapted to brin fruit quickly to settler in new countries. in Califorgia, where it
flourishes, and the cities
of that State are better
of that state are better supplied with this fruit than
are those of the Atlantic ments which have been made, and established in extensive and successful operation, whereby our
perishable summer fruits may be cheaplv and quickly preserved through all the year, render it impossible to glut the markets as formerly, and the
production of all varieties becomes a safe and production of all varieties becomes a safe and
profitable business.
With growers the cherry is destined to largely increase
in favor, and to rival the strawberry and the peach; and as the rival the strawberry and the peare reliable the market will be steadier and the
profits surer profits surer.
In ornamental qualities the cherry is hardly sur-
passed by any other fruit tree and if passed by any other fruit tree, and if a fruit tree
is used for decorating the yard or lawn-in point of good taste a questionable use--there is none
better. We can heartily recommend

the " lady." grape.
heeds no praning, but if the kuife must be used to orrect some fault, let the eutting be done in mid-
summer. In over-rich soils its growth is wood nd not fruit, and it is liakle to split open in the
trunk and large limbs, decay and die. This is the reatest Alrawhack to its culture in the West, and the remedy is a suitahle soil and location, heading which will spoften it and permit the necessary expansion.
Owing to its size, close skin and elastic pulp,
the cherry bears transportation admirably may be carried from the orchards to distant markets in good order, and the season of use sufficiently prolonged. England receives immense
quantities of cherries from Soutliern Germany and quantities of cherries from Southern Germany and
from France, which come into market much
earlier than these earlier than those grown on her own soil. So in
this country the Northern markets must draw

## ew Varieties of Grapes.

In this number of the Apvocure we bring to the notice of our readers two new varieteses or grapes.
One, called the "Lady," you will find fully deOne, called the "Lady," you will find fully de-
scribed in another part of the paper; the other is called the "Janesville." This grape has been
thoronghly tested in the Western States, and has given great satisfaction to those who have raised it. For early bearing, perfect hardiness and rapid
maturity of its wood, it surpasses any other variety maturity of its wood, it surpasses any other variety
there cultivate. When other kinds have been totally destroyed by the severe frosts of that country, this grape has come out all right in the
spring and borne heavily the following season. It spring and borne heavily the following season. It
has stood a temperature of $35^{\circ}$ below zero with Mas.
 ingin two nyem ons bend. ers at $\$ 1.00$ each. We have no doubt
that this grape would prove a very excellent one for the great mass
of our readers incanada
to cultivate. to cultivate. This va
riety is introduced to
us by riety is introduced to
us by Mr. A. Deadman,
the leading froid the leading fruit growe
in this part of Canad in this part of Canada,
who unhesitatingly re-
commends it as likely commends it as likely
to give sat isfaction to
those who will give it those who will give it a
fair trial. Prize Essays.-Con We regret being
obliged to hold over osliged to hold ove
some valuable contribu-
tions receeved for our
paper. Thed are on paper. They are only
postponed till our next
issue. The postponed The essays writ-
issue.
ten on manure in com. ten on manure, in com
petition for the prize petition for the prizes
we had offered, were
sue of them so late s. me of them so late
in coming to hand, that in coming to hand, that
the necesary examina-
tions could not be had. The articles on the con-
struction of a bank barn have been so numerous and lengthy that
we have thought it betwe have thought it bet-
ter to postpone the ad
judication on them all. judication on them all.
One of our subscribers
now cffers a chromo as a prize for the best plan
and description of the and description of the
fowl house. We wish the plan not to exceed plans for barns are un.
necessarily large-the
ne plan, it has been rebarn itself. Contrib
the 15th of March.

Many subscribers are inquiring the cost of carriage of seeds to different points. We pay postage those sent by express or by rail. The cost by ex-
press on the G.W.R. or G.T.R. to Windsor Sus press on the G.W.R. or G.T.R. to Windsor, Sus.
Bridge or Toronto, is 25c. for less than 10 thes.; or will be 50c. to Collingwood or Kingston;
 per th., is per rail, about 500 . per 100 ths.to Toronto,
Sus. Bridge or Windsor; to Montreal $\$ 1$ per cwt. Sus. Bridge or Windsor; to Montreal $\$ 1$ per cwt.
for small lots; larger lots are cheaper in proportion. This will glve you a margin to estimate on. If sent
by a road where there is no opposition, the rates
will be dowhled. by a road where th
will be doubled.


## Dairymen's Convention

Prof. Bell, said the subject he hud chosen for dis cest," and which, he said, was of the greatest im portance both for Englishman and Canadians. He referred to the steady increase in the manufacture
of cheese in the Province, and gave some statistic of cheese in the Province, and gave some statistice
as to the quantity of cheese made, and the numbe of factories in operation, and alaso the quantity
shipped, which he said was largely in excess o shipped, which he said was largely in excess on
last year, the estimated value ct the whole product
for 1874 being over $\$ 3,000,000$, The Prof. also al for 1874 being over $\$ 3$, which the English marke could receive before it would be overstocked, an
placed the figures at about $600,000,000$ lbs. Ther was allos a quantity of cheese shipped from othe
countries to the English market, which were im ported into that market more as a luxury than fo porter good qualities. He then gave a description
their the different kinds of cheese imported from
of foreign countries, which were mostly of an inferio
quality to the Canadian and American makes The Canadian cheese had already attained a posi tion in the British market protitabe both for the
consumer and the manufacturer; and in orde
to consumer and the man anition, Canadians should
to gain a still higher posite
strive toimprove their dairies. He then addressed himeself more particularly to the patron, as it was
with him the great secret of succesful chees making lay. He referred to the different breede of cattle, and mentioned the Shorthorns and Ayr-
shires, and more particularly the latter, as the shires, and more particularly the latter, as and
best for dairy purposes-both the pure breed and
the cross with the Canadian cattle, and which were the cross with the Canadian cattle, and which were
very easily kept. He referred to the management
of cows. If cows receive proper treatment, they of cows. If cowp rews receive proper the patron for any extrat trouble in the quality of the milk. He also referred to patrons should see that they had. . full quantity of food, and of a wholesome quality. And not only
should their food be particularly looked after, but
the cows seould not be allowed to drink out of should their food be particularly looked after, b
the cows seould not be allowed to drink out of
filthy or stagnant pools. The reputation of a actory has often been destroyed by a patron al-
owing his cows free access to filthy water, thereby tainting the milk, which, when put into a vat with good pare milk, woold have a tendency to eifect the whole. Cows shouid also be comn when
housed during the winter months, and when
weather permitted to allow them plenty of exercise. weather permitted to allow them plenty of exercise. The proper treatnent of cows whe The Prof. caationed farmers strongly not to draw milk from an
nhhealthy cow. Cases of sickness were often anhealthy cow. Cases of sickness were often
known to arise from cheese being eaten that was made of milk that was drawn from a cow that was
unhealthy. He also referred to a habit patrons had of skimming a certain portion of the milk before
sending it to the factory, for the purpose of making butter. This was dishonest, and it was reducing the quality of the cheese. If patrons wish to make
butter as well as supply the factories with mikk, butter as well as supply the should keep aul extra number of cows for that
they
purpe. purpose; but by all means be honest in the miln
sent to the factory. Another means of injuring
the tual ondy of cheese manufactured, and nut unfrequently resorted to, was the habit some factories had of seeing how much cheese could be manufac
tured, out of a certain quantity of milk. tured, out of a certain quantity of milk.
The cheese thus manufactured would necessarily
be of an inferior quality, and would bring a lowe prioe, which certainly would not rebound to th
eredit of the factory The question of
The question of drawing milk to the factory
oncs or twice a day was discussed, and the twice a day plan advocated on the ground that milk can a day better taken care of at the factory than at the
barmbouse and also because if the milk farmhouse, and also because if the milk is kept
over night cream arises on it, and there is a very
strong temptation to remove the cream and so impoverish the milk the only argument for once day delivered is the saring of expense. The im
provement of pasture-land was then urged and provement of pasture-land
variety of directions given to secure the result. Whether it is the better plan for the dairy farmer
to raise his own milch cows or to buy them was to raise his own milch cows or then under which the one plan was preferrable, and those uuder
which the other was best. The establishment of which the other farm, for a supply of dairy stock
large breeding farm
was advocated. Some objections to the cheese factory system were adverted to, such as a sear-
sity of butter and high price of butchers' meat.

Taking up the second objection first, the cattle
farms recommended would do much to provide a
better meat supply and in regard to the latter better meat supply, and in regard to the latter
butter as well as cheese ought to be made at
cheese fact cheese factories. There was considerable butter
in whey, which on the present system was lost. There was no reason why a large trade should
not be done in butter as well as chese Another neglected element in milk was the sugar
it contained.-It differed from cane or common sugar, was of inedical value, and in England sold
at eight shillings, (\$2) a pound. It was desirable hat experiment be made in this direction. In con the cheese buaginess was
essential to high success.
The proceedings of the meeting were interesting hroughout, and we regret te be compelled by the issue the remainder of our report. Corn fodder for milch cows; the size of cheese that will command the best price, in the English market; the coloring of cheese were among the subjects of discussion. These and abridged reports of the other addresses delivered we must postpone.

## The Premium Factory Butter-Wher

 and How Made.At the late Central New Yonk Fair the first premium on creamery butter was awarded to the
Cold Spring Creamery, East Hamilton, Madison
Co., N.Y. About the middle of September we Co., N. A. About the midute of September we
visited the Cold Spring factory, and it may be of
interest to our readers to learn how the butter made at this factory. The factory is a small one,
$28 \times 30$ feet, taking the milk of only 90 cows. There are nine patrons, and mistant patron living about one-half mile from the factory. East HamRiver, in a charming valley, with lofty hills on either side. The pasturage is sweet and nutritious, and there is an abundance of clear spring
water. This section has all the elements for producing choice butter. The farms are mostly small, ranging from 50 to 100 acres, and the farmers are
neat and thrifty, being mostly descendants of New England stock.

## The Jewett pa

The Jewett pans are used at the Cold Spring feet, six inches deep, and four pans complete the
set. The pans are of the ordinary size for 150 set. The pans are of the ordinary size for 150
cows, but the manager of the Cold Spring factory thinks they are not too large for 100 co
milk is set four inches deep in the pans.
In order to adapt the pans to variation in quan
tity of milk received, the pans are divided length tity of milk received, the pans are divided length
wise with a partition of tin. This, we think, is
objectionable when both sections of the pan are objectionable when both sections of the pan are
used, since the temperature of the milk cannot be readily regulated. The milk during summer in
held in the pans until it is 24 or 26 hours' old, and held in the pans until it is 24 or 26 hours' old, and
is generally allowed to sour. When the milk
begins to lopper at the bottom, and the cream begins to lopper at the bottom, and
wrinkled, it is skimmed. The pans stand with one end butted against the wall, and at this end
are the pipes for admitting the flow of water under
the milk. The temperature of the water in the spring is $56^{\circ}$, and it is desired to keep the milk perature, Mr. Holmes, the manufacturer, says, can not be maintained during the hottest weather in
not summer, since the milk-room, being gabove ground
and constructed with thin walls, gets heated up while the large surface of the milks spread over the pans absorbs the heat from the room rapidly, and
thus the milk is made several degrees warmer than is desired. In the spring and fall, or during cool temperature, so that the milk stands very uniform

The churning is done every morning, Sunday excepted, the Saturday's cream being churned
Saturday night. The dash cluorn is used, barrel and a half size, and it is operated by horse power.
Mr. Holmes thinks no churn eyual to the dash for weather the cleam in the churn is tempered to weather the cieam in the churn is tempered to
5ut the time of our visit, the 17th of Sep-
tember, the temperature of the cream, when the churns were started, was 600 . About an hour is
occupied in churning, and when the butter begins
to come the motion is deadened, or made slower,
and foar quarts of cold spring water is added to ach churn. Enough water is aadded so as to
acise the lignid mass to cover the dash, to prevent rise the liquid mass to cover the dash, to prevent
striking the cream. Then, just as soon as the striking the cream. Then, just as soon as
butter is formed, the churns are detached from the power, and the butter gathou The buttermilk is now drained off, and the
butter throv into a large tub with cold spring
water, whe it is washed by working it gently water, whe it is washed by working it gent
with the . Washing in two waters thor
Uughly eet whe buttermilk, when it is immedi oughly ed whe buttermilk, when it is immed
ately salifot, the rate of threequarters of an
unce of salt the pound of butter ounce of salt th pe pound of butter.
Mr. Holmes has a very handy implement for butter-makers, which may be denominated the
"butter and salt scales." It is simply a pair of "butter and salt scales. $\begin{aligned} & \text { scales so arranged that is siacim the butter in a } \\ & \text { bowl on a standard, and by adding salt to the di h }\end{aligned}$. bowl on a standard, and by adding salt to the di hh
on the end of the scale-yard until the scales are on the end of the scale-yard until the scales are
balanced, you get the exact quantity of salt rebalanced, you get the exact quantity of salt re-
quired for the lump of butter. It is arranged so
that that the scales may be set for salting at the rate from a quarter ounce to 1 sunces of sait to thise
pound of butter. It is a simp cheap affair,
and pound should be in the hands of every butter maker,
and
as it saves time and trouble in weighing and calculating
butter.
The salt is worked through the butter while in
the washing tub, the ladle being used for that purthe washing tub, the ladte being used for that pur-
pose, when the butter is removed to the cooling pose, whenere the vessel holding it may be sur-
vat, or whered with cold spring water, and it remains
rounded there until next morning, when it is thrown upon
the butter-worker and worked over, and then goes to the packages. The butter is put up in
return butter pails, and goes to New York city, and the price received at the factory is two cents
less per pound than the highest quotations for less per pound than the highe
fancy butter in New York city.
butter from a given quantity of milk.
During the summer, under the system above de-
scribed, 100 pounds of milk yield four pounds of scribed, 100 pounds of milk yield four pounds of
butter; but as the season advances a pound of butter is obtained from a less quantity of milk.
At the time of our visit the ratio was one pound At the time of our visit the
of butter from 23 of milk.
The sour milk is taken away daily by the pat-
rons, and fed to hogs and calves. A question of considerable importance in discussing the relative
profits from cheese or butter-making is the value profits rom cheese or butter-making is the value
of sour milk for feeding purposes. We endeavored to get the views of the patrons of the Cold Spring
factory, inasmuch as the question has been fully factory, inasmuch as the question has been fully
tested in their practice. Some put the value of tested in their practice. Nome put the value of
sour milk at 20c. per 100 pounds; and indeed we
were informed that at the Union Creamery that were informed that at
price was freely paid by patrons who had occasion price was freely paid by patrons who had occasion
to need sour milk for feeding purposes. On the
ther hand, Mr B. C. Ackley, an intelligont for other hand, Mr B. C. Ackley, an intelligent far-
mer, who had kept a pretty accurate account of mer, who had kept a pretty accurate acount of
the value of sour milk for feeding purposes, said the value of sour morth or feeding purposes, said
100 pounds were worth about 15 c ., either as a feed
for calves or hogs during ordinary years. In this or calves or hogs during ordinary years. In thi
connection we may remark that Mr. Ackley wa aisiug some wery fine calves which had been fed, and were being fed at the time of our visit, on sour
ilk. The milk was quite thick, or loppered, and milk. The milk was quite thick, or loppere
the calves seemed to enjoy it in this state.
TEst of butrer at the factory.
We tested some of the packages of butter at the
actory, and found it of excellent flavor and factory, and found it of excellent flavor and ing the fine sweet feed on which the cows are kept,
the abuandance of pure, cool spring water, the small herds, the neat farms and their surroundings,
the short distance over which the milk was hauled to the factory, we are not surprised at the award of the first prize at the great fair in Central New
York.-Rural New Yorker.

## The Dairy,

The variations in the yield of milch cows are
caused more by the variations in the nutritive element of their food than by a change of the form winter it is given. "A cow kept through the his subject, " will cease to give milk; and, when fut in spring on green forage, will give a fair quan-
tity of milk. she owes the cessation and res. notation of the secretion to respectively the diminot at all to the form, or of outward substance, in

March, 1875.
THTF EARMFR'S ADVOOATF.

| which the nourishment is administered. Let cows receive through winter nearly as large a proportion of nutritive matter as is contained in the clover, of nutritive matter as is contained in the clover, lucerne and fresh grasses which they eat in summer, and, no matter in what precise substance or mixture that matter may be contained, they will yield a winter's produce of milk quite as rich in casein and butyraceuus ingredients as the summer's produce, and far more ample in quantity than almost any dairymrn with old-fashioned notions would imagine to be possible." Woul keep too much stock for the quantity of We gooll and nutritious food which we have for it; and of the consequence is cows are, in nine cases out of ten, poorly wintered, and come out in the spring weakened, if not, indeed, positively diseased, and a long time is required to bring them int tion to yield a generous quantity of milk. <br> 1 t is a hard struggle for a cow reduced in flesh and in blood to fill up the wasted systems with of milk; but, if she is well fed, well housed, well littered, and well supplied with pure, fresh water, and with roots or orher moist foud, and proping and constant kindness, she comes out ready to commence the man circumstances. <br> Salting Butter. <br> Who has not noticed the grains, and sometimes even lumps of salt, in butter, often giving it a disagreeable taste and appearance. the salt not getting thor oughly dissolved. <br> The way to remedy this, which we have practiced for some time, is to salt the cream. When the cream is put into the churn a sufficient quantity of salt is put into it to render it quite salty. When the butter is churned and worked tump or grain of salt undissolved. Of course much of the salt put in the cream will not remain in the butter, but will be contained in the buttermilk. And here, let me say, is one be he greatest pigs. The pigs will be healthier, will grow faster and fatten easier for the salt they will get in their drink. It has been my experience, also, that the meat of pigs thus given a quantity of salt is per- ceptibly better flavored. it is often very difficult ceptibly better from hurting, but feed your pigs plenty of salt, and when killed the meat will require less salt, and will never hurt. <br> would say, in conclusion, that if you wish We use about a pint of salt to four gallons of cream. Common salt that is pure will do.-S. W. <br> Canadian Cheese in British Markets <br> From Scotch papers of recent date, we are pleased to learn that Canalian cheese is not only a high position in the markets of Great Britain. This was particularly noticeable at the great annual cheese fair held laitely in the west of Scotland. ward of 1,300 of the most famous dairies of Scotland and England being represented. The Judges being selected from the most experienced cheese factaries of the kingdom. Thus the specimens of Canadian cheese were placed alongside of the very finest cheese produced in the world, and were tested by those who are most capable of forming an opinion notice the remarks of Mr. Copeman, of London, who, with the concurrence of the other judges, expressed himself as follows: "The general quality saw. As a stranger to the district, coming here qu te unprepared to see such nucle is of this becoming the finest cheese producing districts in the United Kingdom, be in a number of dairies in Somersetshire was de creasing every year. There was some Canalian cheese as finely flavored as any shown. As w have already said, the other julges concurred in to cheese manufactures in this country to learn that in the production of an article of such a domestic across the line, but also with the most favorabl makers of Britain, whose reputation was world tention to this branch of agricultural industry. | Lincoln Sheep in Australia. <br> An Extract from the Report of the Secretary of <br> Agriculture. <br> "Of all the British breeds, the Lincoln, perhaps, bids fairest to prove the right sheep for our agricultural lands. It takes kindly to the climate, agricultural lands. It takes kind y to the climate, change (as was noticeable in the flock of the late Mr. Thomas Austin when brought under the tion, might result in the founding of a breed in every way suited to our wants. The Leicester fleece, under the influence of the marked change for the worse, and this detracts greatly from its value as a sheep for this country. Cheviot has not been much tried; the Romney Marsh is proving itself a useful sheep on low land, and is likely to turn out the best breed for resisting fluke; while the Border Leicester, legenerate in this climate. But some of the above, more particularly the Lincoln and the Leicester, cross adprobably have to depend chiefly on crosses of these for the development of a serviceable breed. The pure-bred long-wools are still too expensive to render them profitable when kept in small lots, large sheep-owner to purchase a few high-classed long-wooled rams to put to his flock, but it will 150 or fewer ewes, to give from $£ 35$ to $£ 50$ apiece for rams. The man who desires to possess a sheep of the right sort, will have to according to his grazing capabilities, a number of large, well-framed Merino ewes, and put to them the best-bred Lincoln or Leicester ram he can red procure, selectea from som attention to culling, and not use one of his cross-bred rams until a new type has been firmly estzblished in his flock, he will not be likely to get far wrong in his undertaking." <br> The 等dorse. <br> Wintering Farm Horses. <br> I have noticed for some years that farm horses have had a hard time during the winter months, farm horses wear out as fast, if not faster, than horses that work during the year; now there is a cause for all this. these hygienic influences all of the time, 'and horses that have been in active exercise should still be allowed ample room and opportunity for what that have been fed high should by all means have enough feed to recruit them that they will look sleek and have enough fat to keep them warm. <br> Theref re when horses have accomplished the work of the season, and are to rest for some weeks or months to come, the firft then give them their regular feed for a few days at least, that is, till they show signs of gooc, then drop the noon of grain and go on for a time with two feeds per day, and then leave off the morning feed of grain, and finally drop the feed of grain of night; still I would never let a horse " be hungry," that is stand and paw or ask for food at night, for it is a loss rather than a gain to try noon feed is withdrawn, give some green food, say potatoes, carrots or turnips, but I would limit the roots to a fourth of a half-peck for a few days, then be. By all means give plenty of hay and good fresh, pure water, with salt, as they may require Now as to exercise, after the horse has eaten the yard, and let him remain till noon; after the noo feed, turn him out again till night, then put him up and should keep him in the stable. It horses ar worked part of the time, keep the shoes on and feed according to the work, but is an from work $M$ ass yard exercise whenever he is let up Ploughman. | Horse Raising and Breeding. <br> Essay read by Mr. C. J. Cockburn at the meeting the Pasfinch Farmer's Club:- <br> Entering at once upon the discussion of the question, I propose briefly to consider two points of the whole subject to other members of the club. <br> 1. What breed of horse will best suit us-that is, best meet our agricultural wants, and how shall we obtain it? <br> 11. What is the best method of feeding and caring for horses? <br> First, then, what breed of horses. will suit us unt? This is a question which I doubt not will receive very different answers even from the members of this club. The true answer will demembers of this club. The true answer will de- pend to a very great extent upon the object we have in view in breeding and raising horses, and the purvose which we intend them to serve. If we have heavy teaming o do, we want heavy horses; we need a good traveller; and if we require a horse to serve a variety of purposes, we should try and obtain a horse that possesses, as far as possible, the necessary powers to serve these. Now, this, last is what we, as a Club, or as a Township want, and to this I shall more particularly confine myself. While, however, considering such a horse as most suitable and profitabls for us, I by no means overlook the fact that it would be impossible for our country to get along without any draught horses. For instance, farmers who have very heavy clay land to plow require both weight and strength, and land to plow require both weight and strength, and in our towns and cities, which are growing so rapidly, heavy horses will always be required for the large amount of teaming to be done in connec- tion with railways, \&c., and any person having mares suited to raise such stock will find ready sale and good price for such animals. But such mares Township. As to the manner in which we obtain such a horse as we want, there can be no doubt, but the whole secret in breeding horses so that our stock may improve, rather than to go back, is to get just the right cross. Now, we can see instances every day where the progeny is not by This is frequently seen when a low set, stout built mare is bred to the same description of a horse, Now set mares, which already have too much cold blood in their veins to a full blooded horse, and then we may be sure of something that will then we may be sure of something that will Our soil is comparatively light, our markets are convenient, and our roads are good; so it seems to me that a heavy Clydesdale horse would only be a burden to himself, a great trial to the patience of his master, much more expensive to keep, and not so suitable for us as a horse of a lighter and more active kind, $i$. e.; a horse with just enough blood to give activity and endurance. The horses which part of the country can be obtained by breeding our average mares to an imported thorough-bred coach horse of the heaviest stamp, such as the one that took the first prize as the last Central Fair in Guelph in the roadster class. Taking such a homse and using him for our class of mares we would get Hat legs composed of bone and muscle; horses that could do almost equally well every thing we require; do as mush work on the farm in a day, if not more, there is always a gool demand in the market, and they cammand such prices as will make it as pro- fitable to raise them for sale as any other class. We need not expect them all to be prize takers ways be sure of a good, durable horee, such as would <br> As our aim is to get a horse for all work, I am certain that this can be accomplished much more successfully by breeding our average mares to blood stallions than by using heavy ones. Nothing can be more important than to pay great attention to the kind of stallion we breed from. It is not only as cheap to keep a good horse as a bad one, but in reality much cheaper, because he is more service- able; so there can be no excuse for not using the best efforts to get the best prossible breed. It is a fact greatly to be deplored that this part of the of stallions. They are, perhaps more than a third or fourth cross already, and with our cool blooded mares it is utter folly to breed from such. A halfmares it is utter folly to breed from such. A half- |
| :---: | :---: | :---: |

bred mare should never be put to a half-bred stal lion, as in nine cases out of ten, the product degen
eratos, whereas if we breell from a thoroughbre stallion the prodnct will be superior to the dam Before closing this point, on which I have dwelt
longer than I had intended, permit me to say that longer than I had intended, permit me to say tha
it would be a great boon to out country if somethin could be done to put a stop to these poor half-bre horses going about our country. If Parliamen
would impose such a tax or license, as is imposed
on some other things on all horses standing fo would impose such a tax or license, as is impose
on some other things, on all horses standing fo
breeding purposes it seems to me, a good purpose breeding purposes it seems to me, a good purpose
would be ereved. Having dwelt so long on th
breed to raise, and how breed to raise, and how to obtain it, I can but
briefly touch upon the other points, viz: What in the best method of feeding and caring for horse us are acquainted;
sufficient from me.

It is of great inpportance that attention be paid to proper feeding and care when young, as this the foal is sucking, its dam should not be made to perform any hard work as any ereat exertion o her part at once effects the milk in such a way a dry and stands erect, an appearance which seldom
leaves until the foal has been a few months on the leaves. until the foal has been a few months on th
grass the following spring. Foals should be housed grass the forlowing spring. Foals should be housed
as soon as the first frost comes at night, as the cold,
frozen grass tends to bring on inflammation. This frozen grass tends to bring on inflammation. Thi
is true of all horses, hut especially the young foals is true of a a hoarses, "forced" by feeding too highly, as this is equally injurious to the constitution, as
lack of feed and want of care. The same attention should be given the following winter. Young
horses should not be put to work too early, say four years should elapse before put to any hard work,
though they should be accustomed to the harnes though they should be accustomed to
at an earlier age.- "Guelph Mercury."

## Influenza in inorses

## says:

It is difficult od influeuza is present. The author is indebted to the acuteness of T. W. Growing. V. S., of camden own, or a knowledge of a marked indication de of the mucous membrances, best shown on the conWhnctive, or white of the eye, is very characteristic. remarked, cantion should be practiced, for it is ten to one that the pestilence is approaching. In nuenza is very simulative disorder; it has appeare as laminitis; disease of the lungs is, perhaps, its
favorite type. Bowel complaints are apt to imitate each other; blowing generally commences such disorders, But when influenza is provalent, let ness of the membrances be always looked to before ness $m$
and
served.
The other symptoms, which, however, are ver uncertrin, as regards any of them being, present or membrances swollen lips, dry mouth, enlarged eye ds, copious tears, sore throat, tucked-up flank hot feet. Ausculation may ditect a grating sound
at the chest, or a noise like brickbats falling down tairs at the wind-pipe; whenever this last peculiar ity is andible, there is a copious nasal discharge. Sometimes one foot is acutely painful, and, not-
withstanding the weakness, the leg is held in the air. Purgation has been witnessed, although constipation usually prevails, and the animal generstands during the continue ollited Move the horse slowly to a well-1ittered, loose
oox; mind the door does not open to the north or to the east. No food will be eaten; but suspend a pail of well-made gruel within easy rach of the
animal's head. Let the gruel be changed, or the receptacie replenished at stated periods, thrice daily; sprinkle one scruple of calamel upou the on sulpharic ether, one ounce; laudanum, one ounce; water, half a piut; do this night aud morning. Should the weakness be excessive, double the quantity of either anch the pulse-it always is feeble,
draughts. Watch the pall but at first has a wiry feeling. So soon as the character of the pulse clanges, or the wiry sensa-
tion departs, which generally happens when the tion departs, which generally happens when the
nasal discharge becones copious and the cough appears, one pot of stout may be allowed and some
nourishing food, as bread, on which a very little
salt has been sprinkled, may be offered by hand. The horse feels man to be his master, and apprecia ter and attention bestowed upon it in the hour
ickness. It will stand still to be caressed an advance h
Beware of what is termed active treatment;
pargative is death during influenza, It generall will induce the prostration from which the anima our strong men propping up a horse during his endeavor to walk. But the lower class are fond o
joking one with another. Such was the usua
results of their employment on these ocasions. esults of their employment on these occasions
n the fun, the horse got but partially support
while the noise distressed the diseasell animal.

## Carrots for Horses

Towards the spring, when horses bave been many
nonths highly fed on corn, carrots are extremely serviceable, indeed necessary. During winter
they should be used paparingly. They used be be given to race horses in far greater quantities than
they are now, having formerly had the characte
of being good for the wind. but perhaps the ondy of being good for the wind; but perhaps the only
merit they can claim in this respect is, that they
keep the body cool and properl keep the body cool and properly open, by which
hey conduce greatly to health and condition, and Chey conduce greatly to health and condition, an ame thing may be said of their claims to probace
fine coat; but whatever conduces to health doe 0 , and consequently carrots do
Carrots should be given in pretty long slices Chey are sometimes dangerous, as horses are crostremely, fond oo them, and, if at all greely, would be pretty apt to
bolt pieces of them whole, which would be likely to caunse some of them to stick in the throat.
first given they are slightely diuretic and bit as the horse becomes accustomed to them
bhese effects are not produced, To sick and idl horses, they render corn unnecessary. They are beneficial in all chronic piseases of the respiratory
organs. In combination with oots. they restrere organs. In combination with oats, they restrre
worn-out horses much sooner than oats alone.
They shonld he fed raw, in which state the horse They shonlld
prefers them
Some parsons give carrots with the grain, thinkcate appetite; so they might if perfectly mincell therwise they will pick them out, and the mat
may eat the onts if he pleases; for, depend on it myy eat tae onts in he pleases; for, depenc on
the horse would not; but if we were to make mince eed of them, we would still consider it a very bad
plan to give them with oats; for, should the horse get accustomed to snch a mixture, he would after wards refuse his oats withont it. For this reaso arrots should be given as separate food; and. in the country, they are by no means any expen sive one, - though they become extremely so in the
city when an hostler can persuade his employer that they are necessary for his horses, buys them by
he bunch, consumes two of those himshlf, and, he is delicate as to conscience, gives the third way. Carrots, if kept in a dry place in sand, will keep a iong time, as in sand as they will keep ont
of doors, if coverad with straw, and then banked
up with earth

## Spavin

An English Veterinarian writes, in concluding long article on spavin, as follows :
Cases of lameness of
cute inflammation of the joint prevails, are best herse should be allowed and fomentation. The may enjoy the advantage of voluntary so that h and be able to assume such a favorable position as arural instinct will counsel. The emollient by a cold lotion; and after a few days, when the inflammation and soreness have snbsidel, active merely kept quiet for a fortnight, so as to affor time for restoration of the injured tissues. A not completely passed off. When the cause is of given, and either a cantharides blister rubbed over the affected part, or, what I believe to be prefer-
able, and have for years past adopted, able, and have for years past adopted, a yentle
stimulant embrocation to be applied to the skin,
and and its application repeated at intervals of a few days, by which a local action is kept up, which
tends to divert the circulation, and is unaccom.
panied by pain and unattended by destruction of
tissues, which often lead to aggravation of cases,
and to to unsightly blemishes. The professiona and to unsightly blemishes. The professional
man may make choice from a variety of agents to man may make choice freplication.
The following, of which the active ingredient is pirits of turpentine, I have used with satisfactory results :One ounce of spirits of tarpentine is well inco white of a fresh egg; to this mixture is then adde ounces of vinegar, and the whole is well stirred istence, and it is to be rubbed over the seat tumefaction and pain for a perior of several
minutes. Of
Of course it will be urged that spavins are not
ways to be cured by the lenient process recom Ways to be cured by the lenient process recom-
nended. Granted. One of the objects I have in iew in writing on spavins is, as well as to show
heir causes and character, to pout out their in curar causes and character, to point out theirint
curaility, and to denounce, with all the weight
hich my humble opinion can carry, the cruelty which my humble opinion can carry, the cruelty uffering from ulceration and fixture of the bones entering into the construction of one of the most arous methoil of treatment, which cannot be with good results.
The dictum that desperate diseases demand desperate measures for their treatment, cannot be too
trongly depreatell. It was but the other day
hat this doctrine was ancted on in the case of the most fatal diseases, and when horses were very
commonly bled to death. Let no violence be done because it has been the rule; neglect ncthing, but, above a:l,
too much.

## What Farmers Need

In an article on the rapil speed of the farmers
societies throughout the land, "Coleman's Rural World" says
What we need now is, the free discussion of rural matters by practical farmers, for as Macauley question rightly, as when they discuss it freely."
 economy,unaided by books, have in their mind,
been productive of fair pecuniary results to the been protuctive of air pecuniary results to the
farmer. The tendency has been to ignore every thing that did not tend solely to money making,
regardless of the effect of such a policy upon him. regardless of the effect of suchy
self, his family, or the country,
A positive need of the times, so far as the agri.
cultural class is concerned, is the general diffusion of knowledge, foundel on experience. This can be best effected by ar free and impartial ciscussion
of any particular branch of agriculture adapted to the locality where the discussions are held. The object of these farmers' meet ings during the winter
months should be, to gather all the information possible in reference to special crops, so that possible in reference to special crops, so that
farming can be conducted to better advantage, and
thus reate amung the farmers of the community thuscreate amung the farmers of the community
a lively emulation to excel each other in the pro
duction of the best crops, as well as to cultivate duction of the best crops, as
business and social habits.
There is a tendency to make these meetings to
formal, insteal of letting them be as they should largely conversational in. character. The ables critics and often the best iuformed men, will per sistently refuse to say anything-nevertheless,
after the meeting is over, their incidental remarks when conversing with their neighbors show a re markable clear comprehension of the question dis
cussed. The presidng officer of the meetin cussed. The presidng officer of the meeting
should take especial pains to call out these men wh are determined not to talk. The young should be be
arged to express their views. This would have the urged to express their views. This would have the
effect of stimulating them to the investigation of effect of stimulating then to the investioation of
the question under discossion. If this method was
adopted adopted a nucleus of knowledge and enthusiasm
would at once be created which would be productive of the best results, as a method of instruction for it would tend to gather together floating frag-
ments of experience and observation, and, like the ments of experience and observation, and, like the
growing erystal, build them up into its own sub
stance growing crystal, build them up into its own sub
stance, and make them a part of its own life. The
great aim of each member should be to infuse sout great aim of each member should be, to infuse some
fire and life into these meetings, for as soon as this is done, increased vigor and etticiency will be th
result. One thing farmers should remember that is, that knowledge like money is valuable only
as it is kept in circulation,

March, 18

駼唯try zaxd．

## Eggs for Early Hatching

 As a general rule it is not best to have manyyoung chicks hatched until after the first of April． From the middle Aprilt to the last of May is uspally
the most favorable season of the year for rearing the most favora．
young poultry．
If we wish to have extra fine birds for exhibition
in the fall it is well to have a few hatched earlier in the fall，it it well to have a few hatched earlier， yet it is not always the earliest chicks which show
to the best advantage．Subsequent care and feed－ ing will produce greater results than difference will
time of hatching．Pullets hatched in Feb．，will often begin to lay in Agust，and by the time，the often begin to lay in Agust，and by the time they
are exhibited in September，and October，theyswill
have lost that lively handsome appearance so com－ have lost that lively，handsome appearance so co mon to them about the time they bogin laying．
But whether we rear chickens for exhibition for market，it is generally best to hive breeding hens of a year or more old，in preference to pullets
of only six or nine months of age．A matured cock is also to be desired，though age in him is not deemed of as much importance as in the hens．
To produce hardy，vigorous，growing chicks，the To produce hardy，vigorous，growing chicks，the
partridge on one side at least，should be well ma－
tured． Pullet＇s eggs are usually more plentiful in Jan．
and Feb．thon those of old hens，yet the latter we and Feb．In order tho obtain them with certainty， some of the finest hens should be separated from
the others and provided with plenty of the best ege others and producing food available．The scraps from the
table should fall to them rather than to any other of ehe fowls at this time，and，besides，they should
be well fed on wheat bran scalded，and then al－ lowed to become luke－warm．To this might be
added with profit a little pepper and salt and some corn meal，say one pint of meal to four of the bran． potatoes and chopped cabbage．It would be wel also to feed on oats to a greater extent than is
usual．Oats and corn at night and mixed feed and scraps in the morning，with good water to drink and plenty of sand too scratch at and pick and ashes to wallow in，will be almost certain t
result in a good supply of choice eggs for early result in a

The Best Poultry for General Use．
In answer to this question，a correspondent of
the＂The Poultry World＂says he has arrived the＂The Poultry World says he has arrived an
the conclusion that the Brahmas，all things con－
sidered，are the best for general purposes，for the following reasons：
I have found them the best winter layers，if year when eggs are in a great demand，and the price realized is fully double，for ordinary family consumption．I find that it costs but little
more to keep them in winter than in the summer more to keep thenited premises，where fowls can not enjoy good range，the expense in any portion
of the year varies but slightly．Good care under all circumstances，and at all times，is a prime neces－
sity to success in breeding fowls．These large birds need no better treatment than do the smaller
varieties．At early age the cocks are ready to kill， and they average much larger chickens，for market uses，at a time when dead poultry brings the
best price in the cities，than do small breeds． As mothers，the Brahma hens cannot be excelled． The chickens are hardy；they make a fine table $\mathrm{f}_{\text {owl if }}^{\text {owh }}$ properly fed and strictly cared for from the ， shell；anl，when in ten to twelve pounds the pair
they will dress from ter
（often heavier），which is almost twice the dead weight of average marketable chicks，now－a－dyys，
of the commen varieties．The extra weight will far more than compensate for the extra cost of good care and keeping；and the Brahmas may be limited
to narrow confinement by enclosure with a four－ po narrow connimemich is a
post high fence，whice in many localities．
4uence in many localities．
I find it necessary，in order to raise good average I find it necessary，in order to raise good average
lirds and fit them for the spit at the most profitable
time of the year，that my personal attention to time of the year，that my personal attention
their neeels，and constant care of their health，is requested，
cost of its keeping that is not attended to regularly systematically，and faithfully－whether for market ing or for competition．Domestic fowls will no
＂take care of themselves，＂to advantage．The lack of this kind of treatment is the leading cause of fail ure with many who do not understand how to rass
fowls，which must be attended to，at all seasons，to
succeed with them．As to feeding，of course corn
and meal must serve as staple food．If buckwheat， barley and oats can be purchased at average reason－ able prices，these shour grans are not＂so fat
much corn as these latter grains tening，and birds will thrive better with varied
food．Whole wheat is also excellent；broken wheat for chickens in their younger periods
Sunflower seeds，which can be easily grown in
profusion around your houses and walls，without any trouble，save the covering of the seed in spring， fond of this．I feed it twice a week，at least，and ＂fine it excellent． 1 give my fowls corn meal and ＂fine feed，＂scatcen，ir maqual proportions，in the red pepper，occasionally．At night I give whole grain．Two meals a day（as much as all can eat up
clean），I find better than more；but regularity， every day，is my custom，and fresh，pure water
kept always before them，of which domestic birds drink freely，when they can have ready access to
Fowls in confined quarters should be supplied
with plenty of green food，daily．Without this with plenty of green food，daily．Without this
they never can be kept in high health．If their range is limited，fresh meat，liver，scraps must have
should be given them daily．They mut
auid amim be given in their drinking water，occasionally， to good advantage，and plenty of clean gravel， pounded oyster shells，\＆c．，are also a necessity，
where they are kept in limited runs．I make it where colean the floor of my house daily，in spring， summer，and fall，and once a week I sprinkle air slacked lime upon the ground anen you alway
have a clean，sweet house，and are not pestered have clean，sweet winter I cover my hen－house
with vermin．In
floor with two inches of fresh loam，or fine gravel Hloor with two inches of fresh loam，or fine gravel
sand．The drophings of the roosts，etc．，are raked sand．The droppings of the roosts，etc．，are rake
up daily．Every fortnight these floors should be careful
again．
Twi
of my house ar，at least，I white－washed the insid or my house thoroughly，and in summer I close
them all tight，once or twice，and smoked then with burned sulphur．I also apply kerosene once
or twice a month to the roosts．This latter plan will keep your poultry free from lice，
mode I know of to effect this object．
Dust baths are highly essential，
Dust baths are highly essential，where fowls are
restricted to limited space，at any season．The laying hens＇nests should be very thoroughly
cleaned out，three or four times during the sea laying
cleane
son．

The Guinea Fowl
are found in the straying proclivities many eggs are lost；and its pugnacious habit of beating other varieties of poultry．But for this
latter trick it would long since have been natural ized as a game bird，having been turned into covert with perfect success；but it was soon found that the Guinea fows drove away other descriptions of destroyed on that account，the pheasants being most valued．As a dontible of much amelioration， bad qualities are susceptibbe orn and good．It is
provided the treatment be kind and almost hopeless to commence a stock with adult ＂off，＂and probably never return．But by setting eggs under common hens，and rearing them at around the person who feeds them，and even allow
them themselves to be taken up and petted，like other
poultry．When
nets pests are provided，they will generally lay in the
nonse；and if honse；and if perches are placed hight will roost
and they are rogularly fed every night，
at home also at home also．So far domesticat ed，they will pay
to rear in to rear，in places where they can host delicious，re
for their flesh alone，which is mone sembling that of the pheasant．The hen lays from 60 to 100 eggs per annum，the eggs being rathe
small，very pointed at the end，and of a lark small，very pointed at the end，and of a car
cream color．These eggs are of a beautiful flavor and there is consideralle demand for them in
London，where we have often seen them exposed London，where we have often seen them exposed
for sale in little baskets lined with green moss Mr．Hewitt kindly adds a few remarks，which
places their utility in what we must confess is places their utility in what we mu mess is t
us a novel light，and which it may be well to ＂＂make a note of．＂He writes ：－－＂As to Guinea make a note ol to breed will and hecome numer－
fowss，if allowed the
ous，they will invariably displace all the pheasant in any covert they may take to，if not interfered
with；and as when thus wild they will run betore
dogs with all the pertinacity of the cornorake，they
afford buty little sport for the gun．It may be dded，the flavor of the birds thus allowed unre－ trained liberty is certainly improved，and more game－1ke than ordinary，becoming more like that insuitable for sport，it must be constantry borae
in mind no birds are better house－guards，if al－ in mind no birds are better house－guards，if al－
lowed constantly to roost in high trees（which
隹 they will always do if they can）near the residence
of their owners．It is with them as it is with of their owners．It is with them as it is with
Spanish geese－nothing can stir sbout in the
night without their becoming aware of it；and Spanish geese－nothing can stir eibout in the
night without their becoming aware of it；and
they invariably give notice of it by their restless they invariably give notice of it by their restless
cries，so that＂to be forewarned of danger is half
the battle．＂Such were the res． the b，batle．＂．＂Such were the remarks written to
me by a friend long since dead，and who added ：－ me by a friend long since dead，and who added ：－
i am sure，Mr Hewitt，in all these years I have rested sarely，without any and tobbery years I have
place is desolate enough to invite pilfering，well place is desolate enough to invite pilfering，wel
knowing my Spanish geese and the Guinea fowls were the best watch－dogs in the neighborhood；in fact，the dogs almost invariably give us only tho
second notice of pression certainly is the dogs themselves as confi dently rely on the geese and Guinea fowls as wo
ourselves do．＂

## Cost of Potato Raising．

You have already published in the Tribune my
ode of culture of the potato crop，for which pre node of culture of the potato crop，for which pre
ninm was awarded．I am induced by Conrad Wilson＇s reeent remarks to give the cost per bushe two kinds，Brownell＇s Beanty and the Earl ike；the soil is the same，and the land cost $\$ 200$ er acre．First 1 will take one acre of $\mathbf{R}$ nterest on cost of land． Plowing and harrowing Plowing and ha
Seed， hushels
Marking out，cu

 Four days＇hoeing
Five days＇digging Two days＇drawing in and storing．．．．．．．．． 5 Compost of three bushels slaked lime（slaked
with water），，bushel fine salt， 3 bushels wood ashes，mixed，and one handful put
into each hill at planting－cost．．．．．．．． 450

Total．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 85700 I harvested from this one acre 162 bushels by
neasure；cost of raising per bushel， 35 cents．No other fertilizer was used but the one named．The
Brownell Beauty I planted about the 15th of May， on a little less than one－quarter of an acre by measure，and treated the same as the Rose－no difference except in the cost of the ged，but I
will here call the cost the same．The Early Rose wil hare const $\$ 49$ ，aside from the seed，so oone－
perarter of this is $\$ 125$ ．Planted $\$ 8$ pound of quarter of this is $\$ 12.25$ ．Planted 88 pounds of
the Beauty（say $1 \frac{1}{2}$ bushels），$\$ 1.50$ ，making an aggregate of $\$ 13.75$ ．Harvested $\$$ rom thasing quarter
of an acre of Beanty 149 bushels of potatoes， of an acre of Beauty 149 bushels of potatoes，at a
cost of only 94 cents per luashel，and with me it is a fine table potato．I also raised from one pound
of the Beauty，planted and was beat by other competitors out of sight and hearing
P．S．I planted one pound of Peerless by the
side of Beauty，cut the same，treated the same side ol heauty，cut the same，treated the same，
and 1 onl had from it a yield of 25 pounds．
Some difference．－ALFRED Ross，Yates Co．，N．Y． The expenses in the alove account are put at the highest fignre－－more，indeell，than we Cana－ every would think right．This applies to almost
ent in the account，as，for instance，in the interest on cost of land．We must，of course make some allowance for differences between the notes of the \＄tates，and some for the difference in other expenses．But we would put the whole cost，down at a figure under forty dollars．The must be something at fault whein an acre of pota－ toes，cultivated and manured as Mr．R．＇s has been，
ives a yield of only 162 lushels．We would ex pect from it from 2100 to 300 bushels－not less than
200 ． 162 ，Whels．

This account，high as the expenses charged are， a good protit in potato culture．Mr．Rose must， have netted，at the very lowest calculation，oue
hundred per cent，on his potato farming． have netted，at the very lowest calcula
hundred per cent，on his potato farming．

|  | fiterside \%electiong. |
| :---: | :---: |
| The Price of Truth. <br> Great truths are dearly bought. The commonest truth, Such as men give and take from day to day, Comes in the comn.on walks of daily life, Blown by the careless wind across our way. |  |
|  |  |
|  | ught in market at the current price, Bred of the jest, the smiles, perchance the bowl; tells no tales of daring or of worth, Nor pierces e'en the surface of the soul. |
|  | reat truths are greatly won-not formed by chance, Nor wafted on the breath of a summer dream ut grasped in the great_struggle of the soul, Hard buffeting with adverse wind and stream. |
|  | Tot in the general mart, 'mid corn and wine; Not in the merchandise of gold and gems; Not in the world's gay hall of midnight mirth; Nor 'mid the blaze of regal diadems. |
|  | But in the day of conflict, fear and grief, <br> When the strong hand of God, put forth in might, <br> Plows up the subsoil of the stagnant heart, <br> And brings the imprisoned truth-seeds to the light. |
|  | Wrung from the troubled spirit in hard hours of weakness, solitude, perchance of pain; Truth springs like harvest from the well-plewed Yeld, And the soul feels it has not wept in vain. |

## Language of Flowers.

(Cosclubbi.)
Lily, of the valley,-Delicacy. Unconscious sweet
ness.
Linden or Lime,-Conjugal love. Linden or Lime,-Conjugal love.
Live Oak,-Liberty.
Locust leaves (green, $)$ - Affection beyond the grave. Magnolia, - Nobility of character.
Mallow,-Mildness.
Malope, -Good nature.
Mand rake. . Horror. Rarity.
Marigold, African-Cruelty.
Marigake, Afrian-Cruelty,
Marigold,
Mrench-Jealous
Marigold, French-Jealousy
Marigold, garden-GGrief. Chagrin.
Marijoram, Braushes.
Meadow Saffron, - My last days are past.
Marvel of Peru,- Timidity
Mignonette, - Moral and intellectual worth. Your
qualities surpass your čharms. qualities surpass your c̄harms.
Mimulus,-Fun. Jollity.
Mimulus, $-F u n . ~$
Morning glory,--Bonds.
Moss, - Maternal love
Moss,-Maternal love.
Mullein,--Good nature.
Mushroom,--Suspicion.
Musk plant,--Weakness.
Mustard Seed,-Indifference
Myrtle,-Love.
Myrtle, withered-Love betrayed.
rtle, withered-
ttle,
Cruelty.
and
k, - - Crospitalty.
Oak, Leases,-Braver
Oak, live-Liberty.
Oak, live-Lil
Oats,-Music.
Pansy,-Thou
Pansy,-Thoughts. Remembrance.
Parsley,- Festivity,
Pearey,- Festivity. Entertainment. An appointed meeting.
Peach blossom,--Preference. I am your captive Peony,-Ostentation.
Pepper, - Your wit is too keen for your friendship. Peppermint,- Warmth of feeling.
Periwinkle,--Remembrance of early friendship. Petunia, - Your presence soothes me
Pine,-Hope in adversity. Time will cure. Time and philosophy.
Plum tree,-Keep
Plum tree,-Keep your promises
Poplar, white-Time.
Poppy, red-Evanescent pleasure.
Poppy, variegated-Beanty without loveliness. Thine arts are powerless.
Poppy, scarlet-Fantastic extravagance.
Poppy, white-Consolation. Forget the past and
hope for the future.
Prtula, Pra,-Love in a.
Raspberry,-
Rosebud, red
affection.
Rosebud, moss-Confession of love. <br> \section*{Rose
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Rose, red
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Rush,
Suage,
Salpig
Scabio}
ou hast stolen my
ove.

## Salpiglossis,, Political distinction. Scabiosa, Mourning Bride-Unfortunate attach- ment.

Scarlet Runner,--Winsome ways.
Sensitive Plant,--Sensitiveness.
Sensitive Plant,-- Sensitiveness. Timidity
Snowball,-Age. Thoughts of heaven. Snowdrop,-Faithfulness. I am no no summer friend.
Sorrel, wild-Wit, ill tempered. He makes a foe who makes a jest.
Stock, ten-weeks,
Stock, ten-weeks, - Promptness. Stock, Common-Lasting beanty.
Straw, broken-Rupture of a contract. Straw, whole-Union.
Sumach,-Splendid misery Sumach,-Splendid misery
Sunflower,-Adoration. Sweet Alyssum,-W orth beyond beauty
Sweet Sweet Basil,-GGood wishes.
Sweet Briar,--I wound to heal. Sweet Briar,-I wound to heal.
Sweet Pea,
Sweet Weparture. Must you go. Tare, -Vice.
Thistle
Thistle, common-Austerity.
Thistle, Scotch,--Retaliation Thistle, Scotch,-Retaliation.
Thyme,-Activity, courage. Thyme, -Activity, courage.
Triptilion spinosum, -Be prudent. Tritoma, Red Hot Poker-
armed.
Trumpet flower,--Separation.
Tuberose, -Personal charms.
Tulip, red-Declaration of lov Tulip, red-Declaration of love.
Tulip, variegated-Beautiful eyes. Tulip, yellow-Hopeless Love.
Tulip Tree, -Rural happiness. Tulip Tree,-Rural
Turnip,-Charity.
Curnip,-Charity.
Venus'rly Trap, -Have I caught you at last?
Venus' Looking Glass,--Flattery. Verbena,-Sensibility. Vernal Grass,-Poor but happy
Vine Grape,-Intoxication.
Violet, blue-Faithulness. Vine Grape,--Intoxication.
Violet, bue-Faithulness.
Violet, white- Retirement. I

$$
\begin{aligned}
& \text { Violet, yellow-Rural happiness. } \\
& \text { Violet, sweet-Modesty. }
\end{aligned}
$$

Virginia Creeper,-I cling to you both in sunshine
and shade.
Wall Flower,-FFidelity in adversity
Walnut,--Stratagem.
Walnut,-Stratagem.
Water Lily,- Purity of heart.
Wax Plant-Susceptibility.
Weigela, Maiden beauty.
Wheat stalk,-Riches.
W eigela,-Maiden beau
Wheat stalk, -Riches.
Whitlavia,-Constancy.
Whitlavia,-Constancy.
Whortleberry,-Treachery.
Willow. Weeping-Mourning.
Winter Cherry,-Deception.
Winter Cherry,-Deceptio
Witch Hazel, -A spell.
Wolfspane.-Misanthropy
Woodbine,-Fraternal love
Woodbine,-Fraternal
Wormwood,-Absence.
Xeranthemum,-一, Chamomile-Cheerfulness in ad-
versity.
versity.
Yarrow,--To heal a wounded heart.

## Letters via Pigeon Post.

Photagraphy has a use, and a most'important one
it is: I allude to the pigeon post. During the late Franco-'Prussian War, if a person desired to
send a message to a friend in beleaguered Paris senc a messace oo a friena in beleaguered orris,
from any plaze outside that city, he had only to
take his message to the post, pay half word for it, and it goes in this wise tied to the tail
of a pigeon. The message is first tel of a pigeon. The message is first telegraphed to
M. Steemackers at tours, then alony with a great
number of similar messages, it is set up in type number of similar messages, it is set up in type,
until a slieet as large as a newspaper is covered
wit with them. This is then printed, and the page is
placed before a camere inches square, or rather less is then taken npon
cullion culliodion film. This, of course, is a negative,
with the letter
wW When reversed, with the back of the plate to the ey, it can be read perfectly under a powerful
magnifier. The film is then transferred from the glass, coiled up neatly, and enclosed in a very
small quill. This is tied securely to one of the
feathers of the tail of the carrier pigeon, and the feathers of the tail of the carrier pigeon, and the
bird is let loose to find its way to itshome in Paris. There the messages upon the culliodion film are
Thead under a microsoope, and then enclosed by letter read under a microsoope, and then enclosed by letter
to the addresses within the city whieh they respect
ind ively bear. The pigeons leave the city again along with aeronauts in the car of a balloon. But with
out photography how could this ingenioussystem be out photography how could this ingenioussystem be
carried out?

Genius and Labor.
Alex. Hamilton once said to an intimate friend:Mer give me some credit for genius. All the genius I have lies jast in this, when 1 have a sub
ject in hand, $I$ study it profoundly Day and night it is before me; I explore it in all its bearings,
My mind becomes pervaded with it. Then the ef. My mind becomes pervaded with it. Then the ef. fort which I make the people are pleased to call
the fruit of genius. It is the fruit of labor and thought." Mr . Webster once replied to a gentleman who
pressed him to speak ou a subject of great impor pressed him to speak on a subject of great impor-
tance:-"The subject interests me deeply, but I have no time to master the subject jastice.", Mr. Webster, a few words from you would
"But, M, do much to awaken public attention to it. "If there be as much weight in my words as you represent it is because 1 do not allow is imbued
speak ou any subjeot until my mind is imbur speak ou
with it.
Demost Demosthenes was once urged to speak on a, great
and sudden emergency "I am not prepared," said and sudaen emely refused.
he and absolutely The law of labor is equally binding on genius and medioority.

Protect Your Eyesigh
$\qquad$ Milton's blindness was the result of overwork
and dyspepsia. One of the most eminent divines, and dyspepsia. One of the compelled to forego the
having for some time been conts
pleasure of reading, spent thousands of dollars pleasure of reading, spent thousands of dollars
in value, and lost years of time in consequence of in vaiue, and lost
getting up several hoors before sunrise and study-
ing by an artificial light. His eyes never got ing by an artificial light. His eyes never got
well. Multitudes of men and women have made their
eyes weak for life by the to free use of the eye sight, reading small print and doing fine sowing.
In view of these things, it is well to observe the In view rules in the use of the eyes:
following rul following
Avoid
darkness.
Never read by twilight on a cloudy day.
Never sleep so that, on waking, the eyes shall open on the light of the window

$$
\begin{aligned}
& \text { open on te ne the eyesight by light so to scant that it } \\
& \text { Dequires as effort to discriminate. } \\
& \text { requin }
\end{aligned}
$$

$$
\begin{aligned}
& \text { requires an effort to discriminate. } \\
& \text { Never read or sew directly in front of the light } \\
& \text { of the window or door. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { of the window or door. } \\
& \text { It is best to have light fall from above, obliquely }
\end{aligned}
$$

$$
\begin{aligned}
& \text { over the left shoulder. } \\
& \text { Too much light creates a glare, and pains and }
\end{aligned}
$$ Too much light creates a glare, and pains and

confuses the sight. The moment you are sensible
of an effort to distinguish, that moment stop and of an effort te
talk, walk or ride.
As the sky is blue and earth green it would seem
that the ceiling should be abluish tinge, the carpet that the ceiling should be a bluish tinge, the carpet
green and the walls of some mellow timt. green and the wall of some mencinely prompted to
The moment you are instinctively rub the eyes, that moment cease using them. If the eyelids are glued together on waking ap,
do not forcibly open them, but apply the saliva
with do not forcibly open them, but apply the saliva
with the finger, and then wash your eyes and face
with warm water with warm water.
Habrr.- "I trust everything under (God," said
Eord Broughman, "to habit, upon, which, in Lord Broughman, "to habit, upon, Which, in has mainly placed his reliance; habit, which makes everything easy, and casts all difficulties upon the habit, and intemperance will. Make sobriety a prudence a habit, and reckless profligacy will be as contrary to the nature of a child as to any of your lordships. Give a child the habit of sacredly egarding the truth, of carefully respecting the
property of others, of scrupulously abstaining from all acts of improvidence which can involve him in distress, and he will just as likely think of rushing
linto an element in which he cannot breathe, as of linto an element in which he ca
lying, cheating, or of stealing."
Some one has beautifully said:-"The water and thows sentiments which flow from the heart cannot be frozen by adversity."


## 

My Dear Nephews and Nigces:I suppose you are all glad that hoary-headed
old Winter has at last shown some disposition to leave us, and give his more welcome rela ive Spring, a chance to pay her devours. No doubt
there are some among you who will now have to
throw aside their books and go out into the fields there are some among you who go out into the fields to assist in in owing the seed, and to such I would say, Perform the various tasks allo.ted col you
cheerfully. Young, folks should always cul iva'e
habi's of indus $r$ ry, and in af er years, when they cheerfully. Young ond in af er years, when they
habi's of indus 'ry,
have grown up to be men and women, they will have grown up to be men and women,
not be sorry that they learned to work while they were young.
As this. is the Len'en season I will give you,
along with a number of 0 'hers, a recipe for
bakbd fish.
Small fish, which are usually fried, because of the difficulty of cooking them in any other way mayatoes, add add an equal measure of fine whea meal, bread crumbs, or ensugh to make thit beep salted shape whond with minced onion and thyme, or not,
and seasoned wast
according to taste. Then lay it hali an inch deep according to taste. Then lay it half an inch deep
on pie platere, and in shapes to correspond with the
size of the fish, and lay a fish well washed and on pie platees, and in shapes to correspond
size of the fish, and lay a fish well washed and
cleaned on each, and bake in a moderate ovenuntil tender. Serve with tomato sauce. This mixture of potatoess and bread crumbs cat fish.
fing for larger baked fish
Beat the whites and yolks of two eggs separate ly; take two thirds of a cup of of salt; put in the yolks and whip these ingredients briskly; then sift in a rounded-up cup of tlour in which has been
stirred a teaspoonful of baking powder; add the stirred a teaspoonful of baking powder; asde.
whites of the eggs, and flavor to suit the taste. oranberry marmalade. Sweet and insipid apples, and those which are
past their prime and need to be cut up on acconnt decay, may be made very acceptable by stewing nd mixing with stewed cranberries in the proportions, say, of one part cranberries and two parts
Not quite so much sugar will be required ap for the cranberries alone, anless the apples are sour. Strain through
serve at any meal.
brine for the preserivation of hutter. To three gallons of brine, s' rong enough to bear an egg, add a quarter of a porner nice whit e
 your butter into rolls, and wrap each roil separa e
ly in a clean white muslin cloth, tying up with a Iy in a Pack a large jar full, weight the butter
string. Par down, and pour over the brine an' 1 it it s submerged.
This will keep really good butter perfectly sweet
and fresh for a whole year. Be careful not to put ice apon butter that you wish to keep any length of butter being made into rolls, pack closely in of butter being made into rolls, pack, closely in
small jars, and, using the same brine, allow it o
sover the butter to the depth of at least four inches This excludes the air, and answers very nearly as well as the first method suggested.
closing cracks in stover.

It may be convenient to know a ready methon
of closing up ciacks, which are not uncommon i of closing up ciacks, which are not unconmon in
castiron stoves, and we are assured the followin
recipe is a valuable one: Good wood ashes are t recipe is a valuable one: Good wool ashes are th
be sifted throuh a fine sieve, to which is adde
te the same quantity of clay, finely pulverized, to
gether with a little salt. The mixture should gether with a little salt. The mixture should
moistened with water enough to make a paste nad the crack of the stove filled with it. This
cement does not peel off or break awzy, and as cement does not peel ofl or break awzy, and a sumes an extreme degree be cool when the appli
heated. The stove must bit cation is made. The same substance may be uscu in setting in the plates of a stoves or in fitting
stove pipes, serving to render all the joints per stove pipes,
fectly tight.
to clean paint.
To clean paint, smear it over with whi ing, mixixe to the consis enicy of common paste in warim warer
Rub the surface to be cleaned briskly, and wash off with pure coll wa er. (Grease spo's will thin be instantly removed, as well as other dirt,
the paint will remain brilliant and uuinjured.

> What's the Use? What's the use of always frettin
Over ills that can't be cured? What's the use of finding fanlt with Does it make our burdens lighter If we grumbie 'neath their load? Does it make life's pathway'
If we fret about the road? Better tse our time, than fill it Full of sighs and vain regrets As does he who always frets.

## The Novelty Flower Stand.

 The cut below represen's the novel'y flowe yet seen. It is on castors, and can thus be easily moved in or out of a house, or to and from the er or in the centre af a room. The stands for th po's are made of cist iron, and nicely pain'ec They can be moved, indepentent of each othe which anyone can examine.

As soon as you have seen if, you will order ons convenient, the neatest and most durable stand ots. It takes up less space for the number Toronto, is the manufacturer, who can supply Wholesale dealers that wish for them.

Whitening Linen.
Accorling to a French writer, crystallizel car-
bonate of soda, although so great a favorite with the washer-woman, is a declarect foe to linen, since notwithstancin's its cleaning power, it attacks the
fibre, and after a time makes it so rotten as' t tear almost at the toach. An improvement on this
sulsstance, it is saill, consist in the employment of a sulution in the proportion of 2 \#ts. of soap to 2 one tablesp., wial of essence of turpentine, and three spoonfuls of ammonia. The mixture is to bo
stirred by the hdy of a littlo broom, and the linen monersed in it for several hours, the tab being
 solution can flee used twice over by heating again and alding half the amount given of essence of
turpentine and ammonia. It is clamed that this process is accompanied by a great economy of time,
labor and fuel, and that the linen experiences littl or no injury, appearing tinally in a condition of
irreproachalle whitencss. The ammonia, it saill, dues not exert any corrosive effect upou thic
fibre, since it evaporates immediately; anil thi filbe, since it evaporates immediately; and the
ollor of the turpentine entirely disappears in drying

## Moths in Furniture

 Last year, a writer in a technical or scientific paper gave the following informalion, which is seaThere are two species of moths which infest furniure. One is a large fly of a silvery-whitecolor; the worm of the same is shaped like a chestcolor; the worm of the same is shaped like a chest-
nut worm, and is familiarly knowu. It rarely nut worm, and is familiarly knowu. It rarely
infes s furni. ure. The oher is a small 1 y of a dark infes color; the worm is about one-fourth of an inch
drab cold tapering from the head to the tail. It
long, and long, and tapering from the head to the tail. It
was firsi observed by upholsterers about thirteen was first obsecver pene. rates a sofa or chair, gen-
years ago. This thy erally be:ween the back and seats of sofas, or under
the sea: s , where the vacancy among the springs the sea:s, where the vacancy among the springs
aftiords a safe retreat. Ic may make a lodgment affords a sate retreat furniture is placed in the
in one week af.er, he house. If such should be the case, in two months
he worm will appear; and the continual process of the worm will appear; and the continual process of
procreation in a few months inceases the number procreation inds. This moth has no season. It de-
to thousands.
stroys in winter and stmmer alike, and it is kept stroys in winter and summer alike, and it is kep.
in active life by the constant heat of the house We find at the same time, in the same piece of fur ni ure, the thy, the worm and the eggs; thus show ing thas they are breeding and destroying all the
time. It does not eat pure curled hair, but fastens its cocoon to it, the elas icily of which prevents its
in being dis:urbed.
The inside of furni ure is used by it only for the
Troose of propagation. The worm, when ready purpose of propagation. The worm, when ready
tor food, crawls out and destroys the covering, if
ind tor foodlien or plush material; and falling to the
of, woolle
carper, des roys it. It Ir arely cuts hroug plush back, but there on the outside back of sofas. There is no protecion against them but con inual care. New furni-
ture should be removed from the walls at least twice a week at this season of the year, and should be well whisked all around, and particularly under
the seats, to preveni the fly from lodging. This is he seats, 10 prevent the fly from lodging. This is
an effec ual preventive, and the only one known. an effec, ual preventive,
Cayenne pepper, Scotch snuff, camphor, turpen-
tine and all her remedies for proiec ion from the tine, and all o her remedies for proiec ion from the
large mo:h, are of lit le or no avail against he fur1arge mo:h, are of lit.1c or no avail against the fur-
ni. ure moth. Satura ion with alcohol will not de-
roy hem when in a piece of furniture. If the s.roy them when in a piece of furniture. by talk-
curniture is infested, they $m$, $y$ beremoved ng off the musin from putside ends and backs, where they congregate most, and exposing to the air as much as possible. Beat well will a whisk or the open hand, and kill
all the tlies and worms which show themselves. all the Hies and worms which show hemselves,
This done often will dis urb them, and may make Them leave the furni ure, in their desire to be left in quiet.
In conclusion, the wri er says:-To protect fur-
ni ure during the summer months, use camphor ni ure during the summer monns, use camphol
in small bags or highly concen rated patchouli, in small bags or highly concen rated patchowis
but the safest way it to whisk the furniture twice
week. If the moths a tack the carpet, spread a week. If the moths a tack the carpet, spread a
wet shee, over it and pass a hot flai iron over it wet sheet over it and pass a hot flatiron over it
quickly, and the staam will kill both worms and quickly
eggs.

The Care of Dil Cloths.
An oil-cloth requires careful treatment, and should never be scrubbed with a brush, but afte
first being swept with the long handled hair brushes that are made for the purpose, it should be carefully washed with a large, soft cloth dipped in'o
nilk and water--half-and-half; or, if the milk is nilk and water-half-and-half; or, if the milk is
not obtainable, tepid water without soap. The at
lat ter ruins oil-clo h by taking off the brightness
of the paint, and it never should be applied to it. fthe paint, and it never should be applied to it.
Hot water is also very injurious to it; either of Hot water sa also very injurious to to injure the dil-cloth more than the wear of it. When washed aver, wipe it of with a sofr, ary cloth, and it win
always retain a bright look. In purchasing an
oil-cloth, ii is very desirable to obtain one that as been made for several years, as the longer it paint becoming harder and more durable. An oilsho h made within the year is hardly wor l buying,
ane

A sheet of ortinary white blotting. paper, which will tear by its own weight when wetted, is con-
ver ed into a $n$ a 'erial having all the properties of a tounh parchment, by merely dipping it for a few
secouls into sulphuric acid.
It is said that in iermany his arifificial parchment is being exten-

## 

## Pruniag Fruit Trees.

Pruning fruit trees, but principally apples, is generally done towards the end of this montion there so much ignorance generally shown as in this. Before he begins, the eperator ought to ask
himself what he warts to prune for? If to check the growth, put it off until midsummer; if merely to thin out the top, prune either in the end of February or rery early in March, or, perhaps bet
ter still, do it about the end of October or beginter still, do it about the end of October or ning of November, when the leaveranch unless it is
fall. On no account cut out a branchen actually in the way, or unless the top is too crowded. Often we have seen orchards of large trees with their branches stretching out perfectly bare; stripped of every smaller or intervening branch until the extremity is about reached, wher a branch would be left resembling somewhat mammoth broom; standing mute though
monuments of the incapacity of the man that committed the outrage upon them. It has been said that thumb and finger praning, is the best of all pruning; and truly too if it could always be done; it does not rudely disturb nature, it is generally judiciously done, it regulates the growth and form of the tree, a bud can be rubbed off where a brancis not matured, off or pinched in to allow the rest of the tree to come forward and so on, but its chief recommendation lies in the fact, that it must be done when the tree is young; and if properly followed up from that stage nothing more than a sharp knife wohld ever be required about a tree, and in po

Reckless pruuing, which is most gener ally done in the spring, when the bud are swelling and the sap in full flow engenders diseases of which perhap more trees die than from any by cause. Peach tres largely, geuerally feft unpruned until towards spring, in order to cut any wood injured by the frost; but it also should meet with as little pruning as possible then as it tends only to a more luxuriant growth and the making of too much wood, is the prinsiple reason peaches do not succeed bere. But so little can be said this month that it will not be out of season to say in Apri, that description of them, until that time

## Maintaining Fertility in Orchards.

 At the annual meeting of the W. N. Y. Hort caltural Society the questiou how car he fertilit was discussed at length. Oliver Chapin fleld plows each year four inches deep without cropping Trees grow well but bear poorly. Soil, a ${ }^{\text {goo }}$ gravely loam; prircipal of mall orchards is easilyHooper said the fertility kept up, but sufficient manure cannot readily bly secured for 50 to 100 acres of trees. The only
profitable old orchards are those that are in mome way frequently manured. Top-dresesing and mulching with manure is profitable to plowing for old
orchands. While trees are young cultivation does orchards. While trees are young cultivation does
good, After bearing begin to seed and top-
drease.

${ }_{\text {drese }}^{\text {P. C. Reynolds mentioned that Mr. Yeomans of }}$
 ingly in Fall or carly Winter, and never plow under.
In contact with the roote stable manure may canee
blight. Used as a top-dressing there is 1 o danger. bight. Used as a top-dressing there is 10 d danger.
Ur. Sylveester platited an apple orchard 33 yeary
Sold lass year 3000 barrels fro n less than 10 Dr. Sylvester planted an apple orchard 33 years
ago. Sold lass year 3,000 barrele fro n less than 10 ago. Sold lass year 3,000 barrels fron less than 10
acres. Don't believe en large quantities of stable
manure. Applies mixture of muck and gas-lime or manure. Applies mixture of muck and gas-lime or
muck and stable manure lightly as tup-dressing muck and stable manure lightly as tup-dressing
every year. Doces not wish to make a very vigorous
growth of wood. We cannot afford to growth of wood. We cannot afford to grow apple
wood or pear wood, even at $\$ 100$ a cord. He ie content if heagets three inches growth of wood a year. That gives enough fruit, and the trees rupain
healthy. Changes his manure prescription each healthy. Changes his manure prescription each
year. This year it is six parts muck to one stalje manure. Has 50 acres of muck on his farm-an in exhaustable store of fertility. W. B. Smith mainnained that orchards on naturally goous soil need mach manare. Knows one wears. F. W. Lay
duced well without manure 3 y year
made a hog yard in his orchard, and it inci eased in made a hog yard in his orchard, and incieased in
productiveness. Major H. T. Bro hiv, 20 years ago, pladted an orchard on new land. 11 is still learing nely. T'en years since he fencel of an acre as
ong. yard, and trces where the hog droppings fell long-yard, and trees where the hog $\begin{aligned} & \text { droppin gs fell } \\ & \text { are twice the size of the othere. }\end{aligned}$. Y. Si:luthe.

Culture of Gladioli

De p digying and liberal masuring, are the chirf elements of sucecess. If the g'ad:oli ave
employed to snceed liliums, as they
sometimes are, and the proper 1 reparasometimes are, and the proper repara.
tien of the groand cannut ue wade for
fear of disturbing the other bulbe, fear of disturbing the other bulbs, a
vigorous growthand long syikes of blowi
may still be obtained, Wy a hibe bal use may still be obtained, by a libs al use
of liquid manures or sewerage during
 are uefoll In dry whither. To have
giadioli throwing fiae tyiter, it is ins-
 to see that the bulls are propelly divided planted singly. For eff ct in huses on ciller and only those of uniform size and viger
employed. Care should likewise be takin employed. Care should likewise be taken
to insert the bulbs at the same depth. $1 f$ to insert the bulbs at the same depth. 1 th
these points are attended to the ph hus.
will be ranged with the re gularity of the will be ranged with the re gularity of the
rank of an army, in new and gorgeours
nniforms, and few plants can equal them in effect either at a d distance or close at
ind. All inferior bulls, and the offete, hand. All inferior bulls, and the offeete,
ought to be grown ly themeelves, and ought to be grown ly themselves, and
under high culture they scon become
large enough to ocupy the mure ins. large enough to ocepyy the mure im-
portant posit:on assigged to the picked portant position assigued to the picke
bulbs. Many of the similar bulbs will also oloom well, and will furnish flowire and foliage enough for cutting for varof
sc. As to time, I have never tricd tis. de. As to time, thave never trice ith
direct applicition to these bulbs, and
would not reonment the expriment
But they grow well on the great cl alk But they grow well on the expeat clalk
formation, with only a depth of from 18 formation, with only a depth of trom trycr
inches to two feet of sol.
the bottom the more water thev reqnise when growing. They seem to suffer wuch
from the twoopposite extremes, an excocss
 heat and is destroyed by late plowing. Bandages nual dressings of well rotted dung, and helped with are also around the trunks to catch the moth.
Apples grow very fair and free from Apples grow very fair and free
nostly sandy and sandy loam. $\begin{array}{cl}\text { Mossly sandy and sandy loam. } & \begin{array}{l}\text { fourish well, } \\ \text { President Berry remarked that large orchards } \\ \text { marichment } \\ \text { must have manure just the same as small ones. }\end{array} \\ \text { "hron., Ene. }\end{array}$ must have manure just the same as small ones.
Green crops are not sufficient. A farmer who preents crops ares in orchard without knowing where
lo get manure is as unwise as one who should bay oget manure is as unwise as one who should byy
1 ,ooo sheep with nothing to feell them. Farrerers must grow or feed more stock. This is the natural
mode of getting manure, and he believes the best. He had known nurserymen to buy and feed sheep
nd che and cattle in Winter solely for manure. They thu ure extra. Farners can do likewise. He practices
und rawing fresh stable manure every third or fourth Winter. Using the manure fresh, it yoes much
further. further, and a very light apptication is suffcient.
Pears should be manured with something lightly every Autumn. Coal ashcs are good for a top-
dressing; wood ashes and linie are excellent. The dressing; wood ashes and hinie are excellent. Aply.
great obbect is koep the enface light. In apply.
ing stable manure to peer trepe, nlways oze it gyar.

epth of from two to three fect, enriched with ainIrequent waterings of lignid manure during dyy Hourish well, and adld a new splendid bulbs wind
charm and a special
$\qquad$ Oats.
The above engraving repreetnts a bead of White don Township, who haie already disposed of a large portion of his cr.s to his neighbors, who have seen them growin:. In Yorkshire they are claimed to be the best oat known. These oats were imhey are offered at $\& 1.25$ per linsh. Addrus, Thos, Mamon, Hyde Park, (hit. Ture Black Tartary ©ats, raised from seed imPrice, $\$ 1.00$ per lyubh. To be shippred at tondoi station. Address, Jno. Routledge, Hyde Park, Ont. Samples of these two varieties nay been been
tour warevon, where ordire nill le taken.


Certainly wheat, the standard of all food, as
gotat is the standart of exchangeable values, pays
as well for being supplied with additional quantigode is thre standard of exchangeable valual , panti-
as well for being supplied with additional quan
ties of food; by reason of caltivating or stirring the soil after the crop is up and growing, as corn"or beans or cabbage. Thave harrowed et, and always
of seven the other seasons being wet,
with well paying results. Last year I had 21
with with well paying results. Lase
bushesis per acre, the average hereabout being not
over 12. This season, where I have harrowed
Ten over 1. The wheat is more even and better balanced
twise, the
than where I harrowed but once and all is growing very rapidly, as fast as corn itself, or more so.
1 perceive no such rapid growth in the vicinity, except in a single instance where the ground wa
well manured -by a Dutchman-on land I used t well manured -by a Datchman-on land rused light
own. Yet my soil is not rich, but a warm, light own. Tet my sons
loam. The reasons my wheat is doing so well are
it was put in early, uniformly distributed ove the surface, well covered, but quite ligEtly, or
fall plowed ground, that was plowed in early enough to admit of chemical disintegration in the
surface mould by heat and cognate agents before surface mould by heat and cognate agents,
cold weather arrested fermentation, wh
course, any but mechanical changes ceases. I may add a wori here on une difference in re
sults as between early and late fall plowing. Late sults as sbetweea early and late fall plowing. Late
plowed ground is changed or improved only me plowed ground is changed or improved only me
chanically, or by division and displacement, rend
ong chanicaly, or by like cuases. The change' is only
ing abrasion and
in form and gize of the lumps and crumbs of m uuld.
On the other hand, early fall plowed ground
raised, divided and subdivided to a depth of sev eral inches by alternate expansion and contraction, compan ative heat and cold or day and night, whil
yet there are heat and moisture sufficient to insure yct cmical action and decompogition in the surface
chould. Hence, early fall plowing is doubly bene mould. Hence, early fall plowing is doubly bene
ficial, equally by new properties being chemically ficial, equally by new properties being eheicical re
formed, as well as by mechanical subdivisions re
sulting from alternations of heat and coll, Har sowing wheat promotes both olasses of resulte.

Seeding Down With Turnips A correspondent of the Newo England Farmer
writes: I have made it a practice for some years of sowing flat turnips with my grass seed when seed down in the fall, and with the best of results.
I have now about two aress which were seeded in
In August, and notwithstanding the severe dry
weather, I have a good catch of grass, and the turnips are doing well. The broad leaves of the tur-
nip protect the young grass from the scorching rays of the sun, without which protection the grass would have been entirely dried up; as it was
T saved my grass and raised a few hundrei
bushels of turnips, and if as fortunate next sum bushels of
mer, Islall cut about four tons of hay. On par
of these two acres 1 had a crop of eariy potatoess of those two acres had a crop of earey potatoes,
on the other a crop of oats before I seeded down.
In the fall of 73 I raised a thousand bushels of on the fall of 73 I raised a thousand bushels of
In turnips in the sime manner. The turnip has a
tur long yoot whith penctrates the soil to a great
depth, and what nutriment it takes from the soi diepta, obnd at a depth to which the grass root
is obtained and
rarely penetrate, anll throngh its broad deaves rarely penetrate, ant througg its broad deaves
obtains a large amount of its sustenance from th atmoshere. Hence, like clover, its tendency
ato
to curich rather than impoverish the soil.
ciranges of Patrons of Hilusbandry 0
ganized Since the Issue of the bruary Number
the Advocate.
St.-Kettleby: Calvin Davis, Master, Kettleby C. Lloyd, Secretary.
$85 .-$ Forest Hill. Wm. A. Moore, Master, York
ville; J. E. Hopkius, Secretary. 8ille: J. E., Hopkins, Sceretary. Sterart, Master, Ailsa
86.-Grange: A. A. Ster S0.-Grange: A. A. Atewart, Naster, Airsa
Crais; H: ONTill, Secretary.
87.- Morecurn: W. H. Haldenby, Master, Kin lough; A. W. Haldenby, Secretary D. J. Hunter, Secretary. , Master, Branley D. S. Hunter, Secretary.
B9.-Cookstown. Thomas. Duff, Master, Cookstown; C. Cooke, Secretary
90.-Enniskillen: T. Du
Robert Dawson, Secretary.
91.-Plympton Union: James Vanatter, Master,

Forest; Sylv. Kensey, Secretary.
Y2- Muunt Pleasant: James

94. -Harmony: Wm. Spence, Master, Bramp-
on; John Campbelt, Seeretary.
95.-Sherkstone : Fredk. Heckedox, Master, 95.-Sherkstone: Fredk. Heckedox, Master Sherkstone; J. M. Sherk, Socretary.
96. Grane: Jacob Bowman, Master, Dundas 96.-Grange: Jacob Bowman,
William D. Binkley, Secretary. 97.-Wanstead: A. G. Anderson, Master, Wyom
9; J. E. Anderson, Secretary.
98. - Lorne: Arch. F. Campell, Master, Bel 98.- Lorne: Arch. F. Campbell, Master, Be
oont; Geo. McCallum, Secretary.
99.-Sheridan: Fred. 99, -Sheridan: Fred, Lawrence, Sheridan; R. F
Potard, Secretary. Wreath : J. Lawart, Master,
100.: Farmer's tard, Secretary. Wreath: J. La
100.- Farmer's
cknow; J. J. Taylor, Secretary. Locknow; J. J. Taylor, Secretary,
101. Sharon: Amos J. Hughes, Master, Sharon,
E. Lundy, Secretary 1. E. Lundy, Secretary
102. - North Ridge: John Noble, Master, North Ridge; C. W. Johnston, Secretary.

## Potato Experimen

H. L., of Grant County Indiana, writes to the
incinnati Gareete: "Planted, April 16, 1874; variety" Early Rose; gand gathered rem pard in October; planted altely; that is, two ows of large potatoes taken promiscuously, of hat I would call merchantable potatoes; then two Wss of small potatoes all under the merchantable
ize, down to as small as were worth picking size,
up.
"I f
"I find the result to be in favor of the large to
he extent of about two hills is fifty in merchant.
 bulk of small ones. In quality there was merely a
perceivable difference in favor of the large seed perceivab
"But between choice selected seed, large and nuch greater difference in favor of the selected the difference being fully one-fourth in bulk of mer
chantable potatoes, and the quality very plainly better.
"In preparing the seed all was cut, as near as practicable, to two eves to the piece, and two
jeces dropped to the hill, the hills being about
three feet apart. The whole patch is planted on three feet ap.
oldground.
،gust for
r'qust for an experiment I dropped three pieces
acch in a few hills, but the result was in favor of each in a few
two pieces.
"On a piece of new ground, all planted with mall seed, I raised as handsome potatoes as need
be; but they were not all so; many of them were rough or knotty."

## Proposed New Postal Law

From the Government organ we learn that it is roposed to deliver papers and are to be for for cent per th but a monthly periodical weighing over one oz. must bo charged one cent. Farmers! you have a right, and any one cent. Farmers ! you have a right, and any
further attempts to rob you of your right will not be readily submitted to by you. Your ag ricultural paper has done as much good for you as your political paper, and it should be delivered to you as cheaply as any political journal is to citizens. Every paper should pay alike, if the weight is the same. We do not want direct taxation to support citizon's ite ne publisher, say to cover expenses, to be paid a eent, should be made on every paper. We, as farmers, do not want to be taxed for other's postage, but are willing to pay for our own mail matter as we receive it.

The Canadian Agricultural Emporium As inquiries are increasing in regard to the stock in the above, we beg leave to state that it is not yet all taken up. Parties desiring stock may secur shares by sending us $\$ 5.00$. The shares are $\$ 20.0$ each. No person is liable beyond the number of shat in $\$ 5.00$ not have received a private circula regarding its progress and seed accounts, they should notify us at once. Bankers, Molsons Bank llomeys, Scatcherd \& Meredith
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The American Newspaper Advertising Agency Geo. P. Rowell \& Co., New York is the only which keeps itself persistently before the peopl by advertising in newspapers. They evidently ce:ve their reward, for we have it from a reliable source that advertising orders issued by them for their customers have exeeeded three thousand dollars a day since the commencement of the jear, ana las a mathy yon for and
N. B.-The expense in searching for grain and in purchasing, testing, and preparing it for you must add to the cost. The stock being only small therefore, to cover expenses we are obliged to
charge a high price for it, and can only supply it in small quantities. We do not propose sending more than 100 lbs. to one person, perhaps our stock will not bear this; in case it should not, the smal wishing it by the 100 pounds we guarantee the crop if properly attended and the season favorable will give satisfaction to 9 out of every 10 of our subscribers that procure either variety, and that it will return 100 per cent profit to you. To claim our guarantee, you must follow our instruction, ex amine your grain closely, and should you see a blac oat or a piece of barley pick it ont. Go throug your field twice before harvest and pull out any orign grain thal may be his. Mus you bors. The above applic
Our subscribers will be first supplied.
Farmers that have taken Stock in the Agricultu ral Emporium will participate in the profits or losses in the introduction of these new seeds, and
will be informed of all particulars regarding the same.
nd aided in fixing prices, and consider our state ments and terms are right.

We have heard accounts and seen samples of wheat called the Golden Globe, the Mantony, the Jackson wheat; from some of which we hear good eports, and seen samples, but the mixtures of introduce them to our readers.

If any of our subscribers have more clean and pure Silver Huled Buckwheat than they require, please send us a sample, state quantity, and price vanted.-W. W.
Airect from a subscriber that has raised it.
On account of a dispute regarding the Red Fern Wheat, we will call it the Emporium Wheat; and as the oats, have no name we will also give them
the name of the Emporium Oats; feeling quite justified in doing so, and believing they will do redit on the establishment

Straw Feed.

## At Ahe New York Farmers Club, M. George

 that when in Syria last year, he was informed by duce the improvements of the west in the Orient,dine in in that they found difficulty in using our threshing machines, because they only break instead of bruise
the straw. As a result the cattle would eat only portion of the straw thus the inhed, while that turies is entirely eaten up. While we are teaching much to the eas', he said, may we not learn some-
thing there ourselves? Millions of tons of straw hing there ourselves? Millions of tons of straw
are annually burned up in the west. May not these facts lead to experiments in straw-feeding,
which will turn part of this waste into which will turn part of this waste into millions of
dollars worth of beef and mutton?
Sir,_-Plesse finl $=-$
SIR,-Please fin 1 enclosed one dollar for the
ADvocate, being my subscription for 1875. I assure you there is no paper or periodical more looked for, or read with greater relish, than the
FARMERS' ADvooate with my boys, although not FARMERS'
farmers.
Mr. Edit
Mr. Editor; 1 have an apple orchard planted on teen or fourteen years. Trees from these thirMany sopy If the trees are about meeting at top. I differ with them especially in the thowever, country. I would like to hear what you would I see it it, mentioned in the the last and number of
nell ADVocATE, cabage plants that they will destroy them \&c. This might do, providing there was no apple irees in the garden. Ny opinion is, that ants are
injurious to apple blossoms; for I have observed
them run up the tress in hundreds a and probe into the very heart of the flo mer and my impression is, that they eat the germ of the apple or poison
the flower, 1 always endeavor to banish them instead of encouraging them. Let us hear what
your experience is concerning this on apple trees your experience is concerning this on apple trees.
Walkerton, Feb. 6th, 1875.!
There is great difference of opinion on the proper distance at which trees should be planted.
Much depends on the from their greater growth, and their branches less upright then others, require greater space. 20 feet apart we do not think too groat on the whole. We have not observed any ingury to apple blossoms jurious of course banish them, as it is not a dif ficult matters; they preserve the young cab bages from the grubs, and having planted fruit

Mr. James Mair, Bridgetown. We have no know ledge from actual trial of the fall rye sown in spring; but we do know that it the hardiest cerial plants we have sown or seen sown in Canada
and from our knowledge of, its great hardiness, rapidity of growth, forage and---yielding capacity
we think, that it sown in spring it is the best we think, that it sown in
cereal plant for early soiling.
The other question we deter replying to, till wo information
Tares and Mammoth Clover will be supplied a will prices, according the market supply. We we can procure it direct from fees frcm growers, otherwise we shall supply it from the most reliable

Planting and Pruning Fruit Trees. fation satisfied from much observation and re fruit trees, vogue throughout the Northwest, and
universaly recommended by nurserymen, is alto-
 tollows:
stood in the
as possible."
I have examined carefully and critically the old orchards in Lafayette, IIwa, and Grant counties,
orchards that have been planted from years, and there is not a single orchard of the yhat is not now old and worn uut. Every one of them was planted and pruned in accordance wit the system named, and eyery one is a decided
failure. There is not a single exception. Som iailure. There is not a single exception, Som
have been taken care of better than others, and
consequently are in somewhat better conditer consequently are in somewhat better condition
but in the three countries there is not an orahard 25 years old, which pays a reasonable interest tupon the ground it occupies.
We have learned from experience that only a
few varieties of apples and other fruit will thrive,
do well and bar will do well and bear well here. Why is it that they are so short lived? As the general rule, I think more care is taken of fruit, trees here than in any
other country I ever saw. The fruit, therefore, is not tin the want of care, nor is it, in the soil or
climate; for we have demonstrated climate; for we have demonstrated by patient ex-
perience, that some hardy varieties of fruit trees perience, that some hardy varieties og ruit trees,
for a time, will ow well here; they ought to do well
for a longer time. Why don'they? In eur stafes and conntries upon the same latitude and upon thi isothermal line, apple trees live and bear wel
for 75 oŕ 100 years. Why don't the Of course there is some good reasons for this state What is it?
Let us commence with the top of the tree. Go
into any old orchard in Southern $W$ Wisconsin or Northern Illinois and examine carefully the trees
Insome varieties the tendency to make crotches is very strong, and all crotches are nuisances; in othe varieties the tendency to make strong, upright
bodies, with lateral limbs forming strong shoulders at the junction with the body, in some the tendency is to make low, and in others, high heads. Now in the whole section of the country there is not a apple tree 25 years old, with a oroteh, or a wery
low head that is god for anything but fuel. Not No
one! And in the old orchards crotched and low headed trees have invariably given out and
died... On the eontrary, trees with high, uprigh
heads and free from crotches have sarvived hied. On the and ree from crotches, have survivedt, and
hetill bear tolerably well. This is the absolute rule still bear tolerably well. This is the absolute rul.
pertaining to Northern llinois and Southern Wis consin, and there are no exaceptions to it.
Experience is better than ald
Experience is better than all theories, and it has
demonstrated to the most thoughtful horticoulturists in this section that we must always avoid crotches in this section that we must an wass avoid crotahe
aud make the tops of trees as remote from th ground as we possibly can. In my judgment, that
theory is correct. In my opinion an apple tree theory is correct. In my opinion an apple tre
should never be permittod to form branches less than seven or eight feet from the ground.
to planting the trees and the root. Gonigal; of Lancaster, plants his grape vines a least 15 inches deep. I plant my gruit trees and
Gind grape roots just about the same depth, Rothiua finest trees I ever saw in any country, and every one of them is planted nt least 2 feet deep, and
sometimes $2 \frac{1}{2}$ feet! Scott does not fill upthe hol the first season; ho covers the roots 7 or 8 inche deep. lase in the fall he fills in the holes, and
takes out art of the dirt next spring. the hole is takes out fart of the dirt next spring; the hole i
completely and finally filled for a year or two completely and finally filled for a year or two
Every season he cuts off with a sharp shovel al the lateral roots that have formed above those the
trees had when it was planted, and pulls them out. trees had when it was planted, and pulls them out
His main object tis to get the roots deeply oovered And entirely out of the reach of climatic changes
and
So far as he can, he endeavors to make the sooti So far as he can, he endeavors to make the ooth
take a downward direction. I don't think it is necessary to opplant so deep, but I know it is , right to plant a great deal deeper than we have been in mulching, and we protect the roots from drought heat, frost and all other injurious climatic change And there is another important advantage gained
by deep planting. The sap does not start so soon in the ppring. I think the heavy clay subsoil we have in this part of the West is better for fruit
rees than the light, friable, alluvial, prairie
trees than the
soil.
Get the roots down deep into the ground and get the tops removed as far as possible from the root
thereby preventing too speedy connection betwee
them, and I believe we ehall sucoeed in making
fruit trees live here as long as they do in New or.! The old eyovem of low head and shallow planting It think this system I have sketched is che true one.
The advioe of J. H. C.,'given above, coming from a man of experience, is worthy of consideration. Butir we are to profit by it, and plant deeper, we
mast prepare the ground to be planted. Planting deep in soil that has never had deep tillage would be sure to be followed with disappointment. The ground laid out for fruit raising should be cultiva previously. Somedig the holes deep and wide enough, it may be in ground naturally yhallow, others never deepen by plough or spade, and in these plant the young trees, not thinking that the roots require good soil beneath and around, from which to draw their food. Such short sighted planter can never have healthy fruitful trees. There in great difference of opinion as to pruning of fruit trees; with low or the her. Ass - En. F. A.

Prises for getting one New Subscriber to the Advocate during this Month. our choice of either of the following varieties or. Emporium Spring Wheat; 4 oz . Emporiun ate ; $\frac{\mathrm{lb}}{}$. Orchard Grass; 4 oz . Trifolim; $\frac{1}{2} 1 \mathrm{l}$ Mammy Pea; 6 Col. Cheney Strawberry plants;
1 Downing Seedling Gooseberry; I Janesville Grape vive, 1 Chromo Little Wanderer or Angling.
Norrce.-All subscribers that have sent their dollior direct to this office as payment in advance for the Earmmers' advocate for the prosent year and send for $\$ 1.25$ worth of seeds, may have the eed sent for $\$ 1$, or if they send for $\$ 10$ worth, they may have them sent for 89; thus securing their paper free, In claiming this ofler they must say
what date they zent their money, and give clear addreses.
This is only to apply to the first order, for the mount sent but not continued in that ratio, to the above deduction, neither are persons in arrears entitled to it; nor pereens that bave previ ously received prizes or payment.

## Treating Manure.

During the last twent-five yeaos the opinions of on the subject of the treatment of manure. Then it wae generall believed that manure piled up to ro and descompose was a better investment than monêy atinterest or wine in the process of ripening. Now the great majority of farmers believe that there is a great loss in storing manure and unless it is to be applied for the advantage of certain or pps the preier to be apply it to Then it was thought necessary to keep a manure
heap covered in order to prevent the escape of ammonia. Now it is believed that the noxious ga that is given off from manure is not ammonia in th main, but volatilie substances of little value. An
English chomist shows that it is chiefty sulphuret
tod hydrogen. Thea the practise was to cover up tod hydrogen. Then the practise was to cover un many farmers would allow the mannre to Be spread out only a little in advathce of turning the furrows to gpread the manure broad $n a s t$, and letting it reon the surface of the ground.
Twenty years ago manure was not haulod into
he field till it was wanted for the use of a crop about to be planted, and was then placed in heap. rom the cart or waggon. Now the practioe. 1 is
becoming general of hauling it into the field as it is
made, and of acattering it brondcast directly from made, and of soattering it broadcast directly fro
dune is deemed to be immaterial, but as more
manure is made in the winter than in summer, or
at least more in collection, it is hauled out at that time.
Tne following are some of the advantages of aauling ont the manure in winter, soon after it is
dropped. The air in and about the farm buildings is ppept from being filled with foul odorss the barn
is kept
and stable yard are more cleanly, the ground over and stable yard are more cleanly, the ground overs
which the manure is drawn, being frozen, is not which the manure
injured by the whels of a cart or waggon; large
loads can be taken, and during much of the time a loads can be taken, and during much of the time a
sled can be used instead of a waggon; the manare may be thrown direct into the waggon box, and may be thrown direct int it saved, the labor of both
the labor of once having
men and horses are of little value in the winter, as nen and horses are of hr.
Of course, manure should not be hauled in winter
od placed ${ }^{\text {m }}$ steep hill sides or in the vicinity of Of course, manues
and phacedon step hill sides or in the vicinity of
nulies where it would wash away, but in other sillies where it would wash away, but in othe
 he weather is very cold and the ground is frozen
he manure is frozen on the top of the ground. If he manure is frozen on the top of the ground. will become dissolved and pas
it is needed,--Clicago Times.

Wood Ashes as a Fertilizer.
This is one of the most raluable fertilizers with in reach of the farmer. The unleached aught to be quite as valuable. In leaching they shrink a good deal, and lime is usually added, which increases
their value. They are generally sold, too, at a less price. Ashes are well suited to all farm crops,
and are very beneficial in the fruit and orchard.
Most farmers still sell wood in the cities and vil. lages, and, rather than go ohome empty, they should carry back ashes and other fertilizers to replace then
potash, lime and phosophoric acid that have been
carried off in the crops and animals sold. Ashes coaried off in the crops and animals bold. Ashe
show immediate effect from their application, and at the same time last long in the soil. They are
very highly appreciated in the onion growing dis lory
tricts, but may be appli
ondinary farm crops

Crop and Market Report

| Throughout the errin-producing countriee in Europe and |
| :--- |

 wheat, no foretelling of light crops and high prices. The
danger cannot jet be said to be entirels past: our tall wheat has still some trying wecks to pass
eve of March, the propecte aro yond

Bertwhim's

## kion uraty.

Bertrohm's Londou cable of Yeb. 10,15 , 15 , reports the
tarmers' delivertes of home-grown wheat in the 150 towns in England and Wales for the weck ended Feb. 6,1875 , at 50,000 200, qrs; The imports of foreign were, for the same week, 120,

 uded for the week ended Fob. 6, 1876 , was 3991,675 to 383, ,50
qrs, against 40,000 qrs minimum and 42,300
qra maximum average weekly consumption. The
weeck was 720,000 to 70,000 bush.
The Cerman agricultural reports are unustually satisfactury保ensive Bupplies of cereala are expocted to be ready at Koni navigation in the spring
In France, Germany, Belyjum, und Hushard the market if nd lower prices had been quite generally, sccepted. Th Englily Provincial market
In France there have been so far no vempli.ints of the croncoreals, especially with wheat
The weather in Germany, France, Delgivum and Ifoland the Chird week in
gary wintry.
The Itallan marhets bad ween quitt, and prives of wheat are
deprested in consequence of frcer arri rals from the Eouth of Rusia.
 the ice; ry
steamers
milder. sposition to restrict purchases as much as posesto in view
more adrantagerise markets hater on, becomes more de-
 prices, but the tendency is in that diroction; foreign wheate
hare met but little enquiry; four continues difficult of eale; Lor English barley quotations are still meaker, and lower prices are ocasionally takien to cosese sales; in the demand for pease,

New Yobs-Flour, 83 so to 420 , cutra, $\$ 460$ to $\$ 020$ heat per bubhel, $\$ 108108111 ;$ No. 1 Spring, 8121 to $\$ 124$;
 Chicaio-Wheat dull and declining: Corn in fair demand ats dull and drooping; Barieg dull and ncer.
Lospon, ONTARIO-Wheat, white, $\$ 140$ to $\$ 1$ 60; red, $\$ 14$
 18: Corn, $\$ 10$ to $\$ 1$ 14; Ryc, q1 $_{10} 10$ to $\$ 12$, Keg Buter
 eod 248.

Child's Réliable Seeds.
All the following are 5 cta per packet, except hose marked at hig
BEETS-Extra Karly Bassano ; Early Blood
urnip; Egyptian Blood Ked, 10c.; Long Blood Turnip
Red.
CABBAGE-Early Yort; Large York; Early
Australian, 1Oc.; Early Sugar Loaf; Litte Pixie;
Large Early Schweinfurt 10 , Large Early Schweinfurt, 10c.; Farly Winning-
statat; Drumhead, Large Late; Flat Dutch Drum-
head; Robinson's Champion Drumhead; St. Denis head; Robinson's Champion Drumhead; St. Denis
Drumhead; Marblehead Yammoth Drumhead, 10 . ; Fottler's Improved Brunswick Drumhead, 15c.;
Red Dutch Pickling; Savoy, Green Globe; Savoy, Qolden Globe, 10 c
CAULIFLOWER-Fxtra Early Paris, English
ecd, 10c; Do, French seed, 20c.; Jenormand's sed, 10c; Do, French seed, 20 .
CARROT-Early Scarlet Horn; Frenct Internediate; Improved Red Altringham
CRESS OR PEPPERGRASS-Exra Curled.
CUCUMBER-Lone Green; Early Frame; Bos LETTUCE-Drumbead or Malta ; Early Corled Simpson; Neapolitan. MELON (MUSK)-Large Yelli
Skillman's Early Netted; Nutmeg. killman's Early Netted; Nutmeg. MELON (WATER)-Moantain Swoet; Phin NASTURTIUM OR INDIAN CRESS. ONION-Wethersfield Large Red, 10c.; Early
arge Red, 10c.; Danver's Yellow, 100.; Whit Portugal, 10e.; Early Paris Silver Skin; Large,
lat White Italian Tripoli, 10 c ; Large Blood Red talian Tripoli, 10 c.
PARSLEY-Champiou Noss Curled.
PARSNIP-Hollow-Crowned.
PEPPERS, OR CAPSICUM - Long Reil; Ca RADISH- Scarlet Oiive-Shaped; White Olise RADSH -. Sarlet Oive-Shaped;
Shaped ; Roll Turnip-Shaped ; White Turnip Shaped.'
salsify or vegetable oyster.
SPINACH Prickly, or Winter Spinach; Found SQUASH-Early Yellow Bush ; Farly White Bush; Summer, or Canada Crook- Neck; Winter Grook Neck; American Turban, 10 c ; Hubbard;
Iarblehead; Mamıoth 1 Prize, 10 c ,
 Early Dwart Red.
Trophy, 10 c . Canada Victor, 10 c . AROMATIC, SWEET AND FOT-HERBS KOHL-RABI-Large Green, $\$ 1$ per lb.; Large Purple, $\$ 1.50$ per lb.

$$
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& \text { RAPE- } 13 \mathrm{c} \text {. per lo. } \\
& \text { The above }
\end{aligned}
$$

The above are a few of the kinds most required.
For list see Catalogue.
G. J. Chiln, London

Persons wishing for any of the abore seeds, can Agricultaral Emporium.

VOL. X

