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Vor. V. No. 6. -

Olite fitid.

## Use and Abuse of the Reaping Machine.

A connespospent of The Farmer (Scottish) writes well on the above subject, in the issue of that paper for Jan. 1, 1868. We condense the substance of his communication. Aftes giving a minute detail as to the comparative cost of reaping by band and maehine libour, he puts down hand-cutting at 8 m . 6 d . per acre, and machine-cuttling at 4s. 8d. per acre, thas proving that nearly the price of a good reaper is saved in the coot of every hundred acres it cats. But the asving of labour and outlay, great though it be, is among the least of the advantages secared by using the reaping machinc. The rapidity with which it secures crops in late or critical seasons, the much larger amount of hay, atraw and grain which it saves, and the facility it gives of bringing grain to an earlg market, when it is desirable to do so, are benelita which experienoe proves to be most valuable and important. An eminent agricultoriat in the north of Scotland, writing in the Aberdeen Free Press, of 11th Ootober, 1867, having shown that the work is more cheaply and better done by a reaping machine than by manual labour, the land more evenly and closely cut, and the sheaves to much neater and more rogular as to ensure more thorongh threahing by the mini, addz-"I have no hesitation in atating that, since I used them, I have obtained at least one quarter per acre addilional grain upen my farms." This statement admits of the following any proof and explan-aflon:-Take two sheaves, one band-cut the other anachine-cut, turn them both apside town, and in the base of the former you can count fineen heads of grain for one bead in the latter. Now, as heads so lying in the bottom of the shent are, when in the stook, injared by contact with the ground, when in the atack liable to be picked out by birds, and when in the mill to pass through it withont boing threshed, this source of loss to the furmer is shown to be fifteen times gresier with hand-cut than with machine-cut grain. Again, striking out-not unfrequent with the acythe-and beade out off and left on the gronnd-a loas common to the use of both soytho and hook-are avoided where the machine is employed. The closeners and uniformity of cutting, in machine-cut fields. and which in autumn are so pleasing to the eje of the farmer, enares a much more thorough covering up of the atubble by the plough, while even the very roading of the feld by the machine improves the subsequent crop of clover and rye-grass. The practical advastagea of a good reaping machine aro so mumeront and so prodtable, that thow furmer who hare uned them mont and longent are the londest In thote praina. In fine, with brat thitty acren of crop to out, a good romper and newors is the frrmer's bett brentment.

So much for the use and value of the machines in question. Their abuse, by carelessnese, ignorance, neglect of oiling, ank exposure to tho weather, comes in for sharp and mell-merited censire. A eocnd and honestly-made machine, constrncted on the best prinoiplo and of good material, will, with ordinary caro, leep iu cffient working oriler without repairs, other than those that can be dono by any comonon sense person, for a number of years. A cloze watc.t ought to bo kept up, and it a nut comes off, or a pin slips out, the evil should bo at once remedied. The derangement may secm but trifling, it loes not stop the machine, nevertheless to go cr. Fith even small injuries unrepaired, is the way to canse more serions evils, bad breakages, and mischief that it will be found expensive and troublesome to remedy. Imperfect sharpening of the knires, or total negleet of sharpening them, are common abuses to which these machines are subjected. Often, by the end of their first season, the ellges of the knives aro more like cold chisels, than the sharp, keen blades they ought to be. Farmers hare been known to cat thirty or forty acres of strong grass, without the knires being once sharpened. For this there is no excuse, as the sharponing process is a rery simple and casy one. The knires ought to be toncled up erery two hours, when at hard work, and the short time it takes to do this is amply paid for in the case and celerity Fith which the work is performed.
Neglect of oiling is another flagrant abase. Oil is cheap, it can readily bo applied, and to withhold it both makes the work harder and hasten the wearing out of the machinc. Oil should be used every hour or two during full work. A machine was giving plain sigus of want of oil, when the man who had charge of $i t$, being spoken to about the neglect, indignanty excluimed:-"Oiled! of course she's oiled; I oil her myself regularly every two days!'" "Another man, who was asked when a certain machinc hat been oiled replied. "All dinna ken, ah banna seen any oll aboot the place erer since alh cam till it."
The cxposure of these machines to the weather is another common and glaring abuse. They are left in the stack-yard, in tho open fields, or shored into the hedge, to leare the headlands free for ploughing. This is a melancholy but not unusual sight; some times a set of knives is luft sticking in the fingers, to rust as they best may. until the mowing season again comes round, when the neglected machine with knives that will not cut, is dragged out into the field, and a feeble attempt at cutting made.
Let all such abuses be avolded, sad proper care taken of these useful machinem. The attention they require is not much, but negleot of it is a costly and ruinous busiaess.

Brex Roor Soone in Aosmaris,-fixporimenta are about to be made in Australie for the colltintion of Beet Root, and the manufnoturn of nayne trom that article.

White Mustard for Green Manure.

## To the Edior of Tie: Caxsda Fuman:

Sin,-Amongst ctue: remedies to suppls the great want of manures, I have been alrised to employ white, or garden mustard, to be sorn rery early in the spring, say about the midde of April, of land intended for summer fullow of the same year; and on the mustard attaining a growth of abont cighteen inches in keight, which I am told will be abont the 1st of July, to plough it under and at once sow buckwheat or rape on the same land; and as soon as it reackes a growth of eighteen inches or more, again plough it under, and sow fall wheat or allow the land to remain unsomn until spring. By that time it surely rould be rioh enough to bear an excellent crop of apring wheat. This plan seems feasible; but I am doabtful whether the white or garden mus. tard will become a weed, the same as wild mustard, or charlock, or that the frost will destroy the young plant in such early spring sowing ss the middle of April. I am confident that the lava will be greatly enriched, but feel doubtful whether this cuarse would keep the thistles sumeiently down. This plan would be almost as cheap as a nared fallow; for there would only be tro ploughings expended, in addition to the fall ploughing done last anfumn ; and white mustard seed, to commenco with, costs only about §'s $^{\prime}$ a busbel, and a few pounds aro sufficient for an acre. After the first year sufficient can easily be allowed to go to seed for all future wants. Will you please in vite answers from your numerous correspondents, and alno request any information or experience they may postess on the subject of sowing, and particularly the liability to be injured by carly frosts, or the probability of any seed remaining in the ground to give trouble in future crops as a seed. We all know the benefit of clover when ploughed in, but clover requires two jears to grow, and it often happens that the weather is too dry, and claylond is almost always too hard to plough in clover in June or July. Wo all feel the mant of some inexpensive quick-growing green crop, that can be sown (on land yloughed in the fall) very carly in the apring, to be matured sufficeatly by the lst of July to be ploughed nader, and ngain to be re-sceded, and again ploughed under, and all completed by the frat weel of September for fall whest, or allowed to attain sonewhat more growth for apring wheat in the yoar following.

I heartily requcet an answer from one or wore of your subscribers who may hare tried the plan proposed ; and if it has been successful in many quarters, shall feel the more certain of its results; and in my turn $I$ will ondeavcur to assist others by recording the reault of the plan when it is knokn, after next secason hal proved it.

## Toronto, March 8, 1868.

Notr ay Enc. C.F.-If any of our correspondents can givo the information nought for, they will obligo by forwarding a prompt reply, an the sowing, if it be adopted at all, should be done in a fon wecks frozo date.

## A Plea for Agrioultura,

Tothe Fillor of Tue Canada Farmer :
Sir,-The cultiration of the soll is a subject of so much fmportance, and often soundervalued, that I frel constrained to say a few worls respecting it. Many of your readers may have formed ton hurried an oplnien with regard to furming, or the cultivation of the soll, as an occupation. Some of the clandies of the day hare said in my hearing, "Oh! I would not be a farmer; his is $\Omega$ bard lot. with no enjoyments, nothing to cheer him on in his dull, lonely lifo;" but allow we to my to all such, that farming is one of the most honormble occupations on the face of the earth. As erideroe of this I would just refer you to that period of Eagithoh bistory, when the crowned heal and archblehop condescenced to bind sheaves in the Gield in honor to this noblo occupation. The abore is practisod at the present day in China, where the Emperor ploughs, harroms, and sors a amall piece of ground annually. Why then should farming not be termed a good calling, and more of us be rilling to follow it for a lirelihood? It is erident to every sensible man that this beautiful Dominion of ours affords many adrantages, that wo are totalls deprired of as soon as we leave the soil which British blood has so dearly bought.
The schools of Canada are as good as thoge of any other country in cither hemisphere; our rellgions privileges are unsurpassed; and also there are other institutions set apart for public instruction, which are agreat bencfit to the peoplo in general; but I ste, who is it that pays for all this?-who crects the buildings in which to hold our public mectings:Who came to the country and made it what it now is? It was the agricultural part of the community that Anst came here and cleared the land, beat back the sarages, suffered and Wled to make homes for the succeeding gencratious.
I should be very sorry to have any of your readers for a moment suppose that I thought a man could not got an bonest living unless he had something to do in connoction with agriculture. This is not my object. I only wish to impress upon the minds of the youth of our land the absurdity of thinking, that, because a man is a farmer, he is not as good in every respect as his neighbour, tho las a profession of scme kind. We are all aware that the country would be poorer were it not for professional men; for we should be lost (if I may so express myself) in many initances, and should notknow what to do, wereit not for the doctor, the printer, and others, who cach have their own respective duties to perform.
It is my opinion, howerer, that Canada is better rupplied with men of mental culture than it is with thowe whose services are of a physical character; that mind is less brarted than muscle; and for this reason I would advise all young men who have had the good fortune to receive an education, but bave not chanced to get a situation that gnits them, to tate up farming and mako a start in life for themselres, instead of loitering abont saloons as too many of our youths are in the habit of doing.

The prosperity of the Dominion dependswholly apon the energy put forth by the rising generation, to reduco its backwoods to fertile plains, and secp that which is already cleared under a good state of cultivation. I have had experience enough to knors that this work requires brare hearts and willing hanis-qualitics which most of our young Canadians poosess, if they are only roused and called into exercise. Then, young men, why not embark in the pursuit which bas made our conntry what it is, and help it to etill continue its progress, until it shall iecome in all respects worthy of the kingdom under whose protection it has so long prospered? It is an honorable calling, the country requires it, and would inevitably go to rain without it; but I am sorry to say that the backroods of this newly created Dominion, although rery fertile, wonld remain for years the same, if they had to be brought nuder a state of cul-
tivation by a certain clase, who do not scem to cither care for themselres or their country. Howerer, while there ure people of this kind in Canada. we hare the satisfaction of knowing that these characters infest other countries as rell. and what is beller, wer can boast that this Dominion has many subjects with ns nohlo hearts anl. open minds as any other mader the sula.

> A P.ISSER-BY.

## Potato Growing.

To the Eelitor of Tim: Casada Firmer:
Str,-The potato crop in this country is usually good, if properly managed. The soil best adnpted to the growth of the potato is loam, but it must be either naturally or artificially drained; for potatoes exposed to much water nre liable to rot. To insure a plentiful erop our land must also be properls cultivated. If the land is not in good contlition it may be well to summer fallow it, aud cleanse it from all foul seed. Betoro ploughing the last time sprinklo a little manure over the land, then plough it under for winter. In the spring plough it orer again, and.your land will work mellow. One of the chief dificulties is to destroy the thistle, for their roots are so deeply housed in, that neither the frost nor the plough are able to destroy then. And, moreorer, it seems useless to try to keep one acre of land clean from thistles when acres of land around it are cosered with them. But most of our farmers in this part of Canada hare loamy portions of land well adapted for ralsing potatocs: yet notwithstanding, from ignorance and want of instruction, many farmers this , ear haro not half enough for their own use, and do not provide one single bushel for the market. If you would ask them the reason of this, they wonld say it's a dry zeason for potrtocs. True, it has been a dry geason not only for potatoea, but for almost everything elso; but, in my opinion, the true reasons are: First, Fant of instruction, and second, want of labour. It is a common practice with some furmers to cut their potatoes in two picces, putting both pieces in ouc hill, and learo them rithout further care, acarcely knowing if they are up until the vecus cover the ground so that they can scarcely discover either the form of the hill or tho leares oi the potitocs. Others cut them oye from eye, putting a number in a hill. Some put them in whole. I think it useloss to put two pieces in one hill. Four good rines are plenty in a hill. We cannot always lave the same number in one hill, but four properly tended to will sield as much as one dozen not tended to. Our plan is to cut the largest, putting one piece in a hill; the smallest are put in whole. The land should subsequently be kept clean. In this way we have raised hundreds of bushels, and if there is any better way I am ready and willing to hear the improrenent.

Napance, Fobruary 28, 1868.
Cloter and Timothy.-A. Mxdley, in a communication to the Northuestern Farmer, gives what he regards as three important reasons why oloper should always be grown with timothy. First, the clover being tap-rooted penetrates decply, stands arouth, mellors the soil, and the timothy grows much stronger and holds up the elover. Secondly, if sown for pasturage, the timoiby almost universally prevents the clover from swelling cattle. Thiraly, hay is too binding, especially for cattle, and clover too washy, (succulent,) beace both together are betier than either alone. To these we may add, under the head of the firsi, that where grass comes in a rutation, it is of the utmost importance, on a clay soil, that at least a part of this grass crop be clover. It will serve to mellow and loosen the heavy soil in a remarkible degree, so that when turned over with a plough, it will not only be rich, but loose and friable. If, on the other band, timothy alone is sown (which some do because the lay ells better), the sod will turn over heary and clam ny, and be unfit for any crop which is to follow. nhe samo correspondent says that he is partial to rye for calf or sheep pasture, which he ocasionally sows. in the summer or satumaiderer a crop of corn; and then, affer being pastured winter and spriug, it is turned under for a apring.crop-corn, if the soil be strong enough-or it may be allowed to go to hairest.

Platt Midoe-Proof Wifeat-Mr. Giles Membety, of Adolphaslown, writes:-"In reply to your correspondent regarding the result of the Platt Midge-proof Wheat, I am able to slate that it Was ne much muperior in other hinds in 1867 as It was in 1S6C ; but on account of the excersire rains in the spring, and the protracted dronght. that followed, no grain in this par: yielded half the crop in 1867 that it dial in 18G0."

In reference to the samesubject, Mr. John Kirkland, of Guelph Topuship, writes :-'I nolice in the Casama Fanmea, of the leth ult, a request for infornuation concerning " Platt's Midge-proor Wheat." 1 may stato that I purchased a bushel of the maid wheat from Mr. J. Watson, Postmaster, Adolphustown, which I sowed on an acre of ground on the 10th of Mind lint. The land, which is "grarelly loara," had 'been manured with barn-jard manure the :prerions year, at the rate of about twelve loads to the acre, and plantel with potatoes. Tho yield turned cut to be seventeen and a half bushels. I am of opinion thit it ought to be sown assoon as the weather will permit, the carlier the better, in order that the plants may cover the ground before the spring rains are over. In this case the drought set in almost immediately after soring, and prevented the plants from tilletiag as they rould have done had the season been propitions. As a natural consequence of its being thin, weeds sprang up, and materially affected the yield of the crop. I also purchased forty bushels of the wheat advertised in the Faryer by Mr. W. II. Boulton, of Demorestrille, which Ibelieve to be identically the same as the kind I got from Mr. Watson, were it not for the immense labour and trouble it is coating: me to free it from a mirture of barley and oats, with which it abounded when I received it from him. I am not prepared to say what the yield will be per acre ; but am inclined to the belief that, all things considered, the results of both will beabout the sanec.'

## Olte 包airy.

## Dairy Implements at the Ingersoll Convention.

We: omitted mentioning, in the report of the late Dairy Meeting at Ingersoll, that Mr. L. F. Buagay, of Norrich, had on exhibition a nicely finiohed Onelda. Cheese Vat. There is diffurence of opinion among dairymen as to which of the vals before the public is really the best, but there is no question that the one

just mentioned is a very excellent one, and at there in, of course, no patent on it in this country, it can be farnished at a comparatively moderato price. The amall cut annexed will give some idea of its constructione and appearance, but beyond this general reforeace to it, we are unable to give a verbal description of it.

Another nseful utensil for cheese factories, was a Curd Dryer, invented and for ale by Mr. D. Harris, of Ingersoll. It consists of a large sink with a semicircular bottom, having a narrow strip of perforated tin or zinc running along the centro of the boltom, through which all whey and superflnous moisture thoroughly drains off, and flows away. It seemed to be regarded, by the dairymen present, as a rery useful afrair.
The Mes.rs. Noxon keep on hand a large variety of dairy requisites, among which we noticed some very nice checse hoops, press screws, and ranges of presses ready set up for usc, of their own mapnfacture.

The North British Agriculurist thinis tatrant and foul water is ofien tho cause of abortion in corts and other domestic anjmale.

## Dairy Farming Vorsus Manaring With Turnips.

## To the Edito wh Tue Cunam Fungra:

Sis,--Yuar correspondent "Vects" has promulgated a theory in relation to fertilizing, that, to say the least of it, partakes of originality, namely, the use of decayed turnips. Every practical farmer is on the lookont, or ought to be, for every arailable means for the resuscitation of exhausted soils; but this schemo appears to me rather an expensive experimeat, and of doubtful utility. Of course I am not prepared to give the chemical qualitios of the decomposed bulbs; but from a casual riew I should expect about as muci fertilizing matter in rutten rood as in roten turnips.
In the inst piece, land for turnips requires to be highly cultivated and highly manured, and turnips being a rery exhaustive crop, it appears to me doubtful about its bringing back, eren if rotted on the tand, the elements of fertlity consumed in its growth.
In specolating upon the means of couxing the curth to yield, we may wander a little from the beaten track, but we have alwayz got to come back to establiahed principles. Fo bave got to fall back on the three great, we may say distinct and combined means of increasing fertility, namely, rest, barnyard manure and pasturage, and artificlal stimnlants. In the latter we refer toplaster, which takenin connection with clover and grazing, is one of the most valuable auziliaries of the hushandman. This is more especlally the case as wo are now entering upon a newt branch of farming indusiry. The farmors of Ontario are beginning to look with a good deal of favour on dairyiog, apd fantortes forchee -making arespringing up in raxious parts of the cou try. There is a large ap untof first class arable la din Canada, and our climate beling well adapted for the production of zereals, coupled with high prices, has led to a severe run on the great Bank of Nature. But we fortunately have the means of renewal within our reach, if we choose to arall ourselves of the same; and ii dairying turns out a payitg affair, as I have no doubt it Fill, we shall mate the meang of resuscitation of over-cropped fellds a meaps of prolt in istself.
In England they are oflifged to bring fertilizing material rom the ends of the earth, importing guano at a great outlay, frum remoto islands, thoussands of milies away. And labor being cheap the earth is ontea remored from the ridges of undulating telds, to sare the waste of tho land, and limo and sea-saud, and in fact every means is used to replenish the soil, rotten turnips excepted. In fact farmers hers have a great adrantage in this respect, if Fo can mako the sourco of renemal a means of proft. Then having brought up the soil to the required standard, by stocking felds and stocking stables, and having adopted a first clazs system of cultiration on the lands we work, there is nothing, Ifeel assured, to provent us from rasing as geod crops in Ontario as thoy raiso in England or Germany. I believe the climate and soil of this Provinco aro as well sdapted for producing the golden cerrealis, of every descriptilon, as Odessa, or Norfolk, or Suffols, or the plains of Marengo, Austerlitz, Jema, or Friedland. All wo want is slock and cullivation. The climate is Decoming very dry, which makes it all the better for good karming. In' a ceason like the last, while short cropaprevailed, our country had plentrand to spare, Fith tho alaptation of the means of fertilizing wo have at hand, and good farming, this Province will become the garden oi Agricultire.
Hope, Feb. 24th, 1868.
J. n .

## Profitable Use of Whag

## To the Editor of Tae Canada Farxer

Dear Sm,-Permit me to use your raluable paper for tho purpose of obtaining information which may not only bo boneficial to me, but to others of your readers who are intercated in the cheese question. I. see from your cditorials that you aro not an admirer of the practice of having pis-pens near the cheese factory, or to uso your own words', it is " an unmitigated nuiannce." And3r. Farrington, attho Ingersoll Suareation, said," They shonldnotbo allowed within smelling distance," and that is not rery near, I can assure you. While all admit tho propriety of having
tho surrounding of a futory sweet and clean, there are many who, lor the ss ko of conrenisoce, will have their pizs mithin a fely roms of the factorg. Normy object in writin: this is to hit on tome pian of prontiably disposing if the whey witheut the pig nuikance. In in work on Arricultural Chemistry, by Profesur Jobngton, it is stated "That feeding corss with wher: thickened with a little meal or grain, has increased the searly produce of clecso froman aingle cor up. wards of one hundred pounds. If this is so, it is mueh more profitable to feed it to our coms and convent it into cheese, than to give it to the pigs, and it will in a great measure do asvay with that pestilential odour which is the canso of so much bud tarour in cheese. I vould like to knom if any of your subreribers have tried the above, and with what results, as I have not hal un opportun.ity of testing its worth.

CREFSEMAKER.
Norr: by Ed. C. F.-Somo of the best cheesemakers in the Coited States ndopt the plan above alluded to; others make butter from the whers.

Dairmiva at the Fietr. -The Prairie Farmer contains an intereiting report of proceedings at the mecting of the Ilinois and Wisconsin Dairymen's Association at Belvidere, on the lith inst. "The vession lasted two days, and was one of great interest and importance to the dairymen of the West. The attendance ras large, and was composed of earnest and able men, showing that though this branoh of farming is ner in our midst, it has alreaty enlisted such canital and talont as to insuro rapid progress and prodtable results."
Nin Mins Coxpant - Anew company hasbeenformed called the " Wellington Milk Company," whose objuct is to supply the city of Toronto with pure country milk. This will be procured, we are informed, from farmers in the county of Lalten, and will be the produce of cows ted solely on hay, grass, grain, and roots. This is an enterprize that ahould prove mutually adrantageous to dwellors in torn and country, and we see no reason why the same plan should not be suecesslal in the neighbourhood of all our larger towns, which. by the assistance of the railTrays, might bo supplied with genuino country milk, instead of the very poor substitute which they have hitherto been compelled to use.

## Starf , Thematurtat.

## Management of Sheep.

To the Elitor of Tir Caxada Famar:
Sim,-As I have had experience among sheep all my life, and as I have seen eomo statements in the Cavada Faruer with regard to them that did not quite satisfy me, I intend to make a few romarks which may be of service to the inesperionced. I shall suppose that some person has commenced farming, and hasjust got a few sheep, and wishes to winter them as economically as possible. The first thing of importance is putting them to tho ram. This should not be done before the 22nd of November, and they will begin to lamb abont the 1 th of $\Delta$ pril; and as the ewes will then be getting some grass, thoy will moatly ha. nough milk, and the lambs will not give much troubie. Then they should have some shelter in winter, but they do not require much hoat. I never confine mine, either night or day. I feed them in the morning before tug cattle get out, and at night after thoy are put in. I give them pea straw at first, and hay towards spring. A few turnips each day are very good for them if we have them. Ilay their food on the snow, and if they leare any the cattle gather it up, and they soon learn to keep out of the way of the larger beasts. It is carteinly better to keep them from the cattle, if possible, but this is not almays conyenient for a beginner; and I only man to show that they can be kent in this way without much danger, as mine hare had their liberty among the cattle, as abore stated, nore than treaty years, and I bave never bad ono much injured by them, and have only lost one during that time ly any kind of discase. Many sheep are hurt by bciag too mach confned in
a bouse, and they never eat their food so well as on
the clean snow. I once kept above forty all winter by a etack of hay, with a rail fuce roumd it, in a 1 lain deld. They lay without the fence day and night, and ate their hay where the wind wonld het it be best, and they never thrived letter, nom were more fortunate in lambing. But it the tichs we men de-troged they will inpowerids yomag shere bely much. I boil some tobaceo, umil pur abont twothirds of a quart of the lippor on each sheep; on" pound will do ubout tweuly. Lat $u$, now turn our atterition to lambs. Many of them are lont annally by coming ton early in the season. It is common to tind one or two that hare been lambed during the" night, but have not sucked, and are nearly dead of lunger and cold. The proper way to treat such lambe is, to get some warm milk usqui-hly as possible. take them by the fore legs and the under jaw with one hand, and the nose with the other; open their month, letting their hody hang down, ant pour a mouthful of milk from your onn mouth slowly into theirs. If you hare no milk take the ewe, and try to get some from her. I have given them an egg when 1 could not get milk. Then put a fiew quarts or boiling water into a small tul, or something that will hold the lamb ; then put in as much strav as will keep the lamb from scalding, cover it ow er with a cloth, and the steam will soon male it 1 curc. Then gire it another mouthizl of milh, and set it to its mother in some warm plaoe. If a lamb die from a exe that has plenty of milk, and you hare a trin, or one whose mother has little milk. give it to her that has plenty. The way to do this is, to take the shin from the dead lamb in the compon way, culy do not cut it out behind; then cut a hole in theskin of cach leg nbova where the legs are cut of ; cut it also out between the eye holes, and put it on the hiviar lamb, with the head through the hole in the head, the legs through the leg loles, and the tail through the hole behind ; then put the ewo in a narrow pen where she cannot tura ronnd. If the lamb is uld, lut it fast a day before you put in the erre ; then set it on to suck. The ewe will smell bath, and dinitug the shan of her own lamb, will fake it at once. Let them stand ten or twelve hons, until the skin heats well on the lamb; then take of the skin, let them.ont. and the transer will most likely be complete. But it the erre seem unsatisfied, give her romething to cat, and put them in again; but do not put the sain agnin and put them in again; but do not put the sain agam
on the lamb. If one has net the ekin, the proces is on the lamb. If one has net the ekin, he proces is
more diffult. But B have onen succeded by milking the ewe's milk all orer the lamb, aud rubbing it Fell about the udder, se., as it is ly the tmell that they are deceived In Scotland we had houses for the gurpose, with pens or "parrocks," as we called them, of different sizes to suit the sherp. Itavo often had four, five, or perhaps more iu thein at once. They seldom smother the lamb, as it has empty corners in which it can lie. I have ofren had young ewes to put in the pen a fury hours with their oryn
lamb when they would not let it suck; and we onght to examine erery young lamb to see if thoy are guching right. Otherwise they may bo exhansted before we are amare. A dead lamb should nerer be lifted from its mother until we have another ready to set on, as they will commonly remain rith, or near them, one or two days. I have set a lamb on a ewe a week after her own died, when I coulid not get one sooner. When a lamb died on the hills in Scotland, I baro often taken a living ono to where the dead one lar, taken the skin of the dead one, and put it on the living one, while the ewe stood bleating near by; then laid it down on the spot where tho dead one was, lifted the carcase, and run amay, when the ewe would take it gladly, seeming curprised to see it jump upalive after lying so long dead. I have often scen ewes that secmed to nuree their lambs well enough for a fer dasys, but if the watber was cold the milk would go from them, and the lamb would perhaps dio, if not fed. In sieh oases cive thenj a little cor's milk trico a day, but no more than tu keep them alive until they can do without it. The next thing is to take the wool from the shecp. This shonld never be done until the old wool rises, so that they can be clipped below it. This depends on the way they have been wintered, and tho weather: I hare elipped them in April, and not before the latter cnd of Nay. Nest, about the first of Angust the lambs shoald bo taken frum the mothers and weaned. It answers vory well to trode lamabs with a near neighbour for tro wecks; but if they can bo hept separate at home, it will be less tronble. By attending to tho aboredirections I do not think a new be. ginner will lose many sheep or lamba by mismanagement.

WILLIA3f brown.
Lake Shore, Sydenhan.
Owen Sound, March 3, 186s.

## New Method of Breaking 0sen.

Mr. Peter Mrsieima, uf Coyeord, township of Faughan, has published a little wurk in which te explaina a new syatem for breaking asen, of which the is the anthor, and by which be saga he will guarantee to break a pair of oxen far better in two or three hours than the couhl furmenly du in as many week. Among the few painful memories wo retain of life on a bush farm, is the vivid recollection of our tribulations and toils in training asd subduing a pair of spirited steers. It was indeed a work of time, patience. and weariness. What would wo not have given then for Mr. Minselman's book! The young farmers of the present day are indeed hirhly faroured All the dull, prowait, hard work is being taken out of the buniness, and nothing left but the peetry of new and improved methods and machines The little work in question also gives directions for training unruly catle, and wieked coms: also "a systematic method of making yokez and bors."

We are not informed as tu the price of the book, but all particulars can be had by addressing the anthrrasabove.
A. Little Miaed.-A farmer wrote as follows to a distinguished agriculturist, to whom be felt under obligations for introdacing a new variety of swine :-" Respected Sir-I went yesterday to the cattle show. I found severs! pigs of your species. There was 2 great varicty of hogs, and I mas astonished at not secing gou there."

Early Lasmes.-On the 22nd day of September last, a shearling Merino ram escaped from his enelosure, and got in with a flock of 112 Merino ewes belonging to Mr. Black, near Warkworth, Percy. Me could only have been with then a few hoors, yet the following will show that he must hare been very busg: On Feb. 16th, 1 ewe lambed

| " | $17 \mathrm{th}, 2$ | " |
| :--- | :--- | :--- |
| $"$ | $18 \mathrm{th}, 3$ | " |
| " | 19 th .9 | " |
| " | $20 \mathrm{th}, 4$ | " |
| " | $21 \mathrm{st}, 1$ | $"$ |

No extra care mas given to the owes; they were not separated from the othera until after they had lambed, yet eighteen of the lambs are alive and doing well and should theg live unti! shearing time in Juno nest. Fill yield, on an average. three pounds each of the finest wool.
Ser The Londun Globe s279 a man named Chariier thintes the notion that howes esed shoes entirely wrong He himself does not cut a horse's hoof. He merely protects it against violent blows and accidents, and against the wear and tear of tho city parementa, by inclosing it in a thin circle of iron, which wards it from danger without compressIng it. He ascribes most of the diseases of the horices foot to clumss shoeing and anskilful paring of the hool.

## 중urat graitecture.

Design for a Oountry School-House.
Tan actompansing plan lof a mat hural Sithol-


END ELEVATION
of our rutal school-housen Any one who has trarWlled through the country must have been paided with the appearanee of our rehool-houses; for the most part they are mere ollcag brick or stone boxes. .3hke devod of taste or any of the requirmentaneerasary to make such places remembered with pleasure in after gears, by those who hape attended them. It should be the aim of those who have induonce, to correct this state of things. It in not necessary that a good proportioned, airy, and well-built achoolhonse should be expensive. If any building ought to le made attractive, tho echool-house especially needs this charm, for no impresions are so lasting, for good or eril, as those made in our boyhood; and it is of the greatest importance that the associations and remembrances connected with the school-house should be as pleaing 23 pussible. The following hints from the "School and Schoolmaster" should be sttended to in selecting eltes for our school-houses.
"So much do the future healt', vigour, and moral principles of the pupil depend upon the position, armagement and construction of the school-house, that everything about it is important. When the most desirable situation can be sclected, and the latss of health and the dictates of taste consulted, it should be placed on the southern declivity of a gently sloping hill, open to the south-rest, from which quarter como the pleasant winds in summer. From the road it should be remote enough to escape the noise, House simple in constraction, and pleasing in general /aud dust. and danger-and yet near enough to be appearance. needs little explanation. In a former easily accessible by a path or walk alfays dry. About number we gave a design for a Frame School-Hease, it should be ample space, a part open for play ground, that which we now give is for a building of alargerand mote permaneat character. As a general rule, too little attention is given to the designing and bailding
 Tall trees should partially shade the grounds, not in stitit rows or beary clumps, bat scattered irregalarly, as if by the hand of nature.

Our natire forests present such a choice of beautiful irees, that the grounds must be very extensive to atrord room for even a single specimen of each. The border of a natural wood may often bo chosen for the site of a sehool; but if it is to be thinned out, or if the trees gre to be planted, and from limited space a selection is t.) be made, the kingly, magnificent oaks, the shately hickories. the spreading beech. for its deep mas3 of sluade, the maples, for their rich and abundant follage, the majestic elm, the useful ash, the soft and graceful burches, and the towering sycamore, claim precedence. The hill-topshonld be planted with evergreens, forming at all seasons a barrier ugainst the winds from the north and east."

If proper playgrounds aro provided for, the master
may be often present at the sports, and thus become acquainted. with bis pupils.
With regard to the indoor arrangements, the principal room of the school shonid be auficiently large to allow overy pupil to sit comfortably at his deak, and to breathe a wholesome atmosphere.
The accompanying plan of a school is designed to accommodate about 100 pupils. It is 34 feet wide by 48 feet long on the outside. The scale of the plan is 12 feet to the inch.
The drawings are sufficiently clear to require no explanations. Tho ceiling ${ }^{\text {' }}$ s 18 scet bigh, and divided into panels by false rafters showing under the cciling; these should be grained and rarnisbed.

The ventilation in winier is acconplished by build ing flues on each sido of the smoke flues, haring only a half brick partition between them. The heat of the smoke tues rarifies the air in the rentilating flues, and thus causes an up draught. The registers for these fluew should be placed near the ceiling. This mode will ensure good ventilation with very little expense.
At some future time, the best ar rangement, \&c., for echool furniture, will form the subject of another article and illustrations.

## Farm, School, and Churoh Bells.

A bell, suficiently loud to be heard all over a farm, $s 0$ as to call hands to meals, or give alarm in case of fire, tc., is a desirable and important convenience. Most people who have lived in the country havo recollections, pet over-pleasant, of the effort to blow tho old-fashioned sin horn, and of the disagrecable noise produced when the effort proved successful. The ringing of a bell is a far casier and more agrecable thing, both in the doing and hearing of it, than the trang of a horn. A bell is also a most desirable appendage to a school-bouse. Before school is in, during "recess," and at the "noon spell," it is very common for the scholars to wander some little distance from the school-house, and while eagaged in play, the minutes pass very quiekly and insensibly, so that those who have no truant diepocition or deaign of being late, find themcelvee, to tneir sorrow, behind hand. A bell that could be heard even half a mile or a mile off, would prevent this. Beside which, the regular rioging of a bell hus a great tendency to promote punctuality, one of the most important virtuea in both pupils and teacher. Churches, too, should be furnished with bells. To a congiderable extent they are, in our cities and larger towis. Unfortunately, however, they are very acarce in country neighborhoods. Of many old and well settlod districts in Canada it is as true as of the solitary island of Juan Fermandez :

> isthe sonsd of the church-golog bell,

Thesi vallege and rocks never heard:"
A church bell is of even more utility in a rural neighborbood than in a city or town, from the fact that clocks vary so much inf the coantry and there is not so ready accesi to a regulator or atandard of time. To this may be added the pleasent effect of a charch bell in the conntry, and the higher consideration that it gives to religion itiself a voice, calling thoughtles smortals not only to public worship, butto a reflective consideration of divine things.
One grent reason, why farm, school, and church boils are not more generally used, is the cxpensireness of the ordinary bell-metal bells. Various atfonpter have been made to obviate this dificulty b finding a . 中eaper material which should jet give forth manical reverberations. The most successful
attempt of this kind, as far as we are nware, bas been made by a Cincinnati firm, Blymer, Norton \& Co., who are manufacturing bells of an amulgam which certainly approaches very nearly to the quality of sound characteristic of ordinary bell metal. During a recent visit to tho West wo heard sereral of these bells, and wero much gratified with their tone. One of theu has been purchased for the new Congrega$\left.\begin{aligned} & \text { tional Churchin Guelph. Its werght is } 1 \text {, cion libs., and } \\ & \text { its cost was only } \$ 130 \text { Canadian moncy For its size }\end{aligned} \right\rvert\,$

## 

## How to Make Good Coffee.

by frofessor hiebia.
Whateyer kind of cofee you may uber the fest condition is to pick it beforo roasting, and remove all things not belonging to it-as pieces of wood, stonen, plames, ant abore all, the monldy, black beans, which will be found in every kind of cofice. The sense of tasto is no surcepcible, that the smalleat addition of anything foreign will not pass unnoticed. The color of dark or dart-green looking coffẹe is usually given to it artiocially, and uuch beans mat be Fat bed and then dried with a Farm ligen cloth. The next important operation, on which the quality of the coffee depends, is the roauting. The beane ahould not be roasted more than to the point where they lose their hornlike quality, and thus become fit for grindlig or crushing in a wooden mortar. The coffec contains some crystaliine body, called caffein, the volatile nature of which makes it necessary that the greatest care be taken to retain it in the beans. The roasting, therefore, must be done slowly, until the coffee and calibre, it is a remarkably goorl bell, and wo assumes a light brown color. From beans roanted should be glad to see more of them introduced into this country. A farm bell of fifty pounds weight costs but about $\$ 5$, and a bell of 200 lbs . weight, suitable for a school, only $\$ 20$. Bells for churches can be had from the size and price last named up to $1,000 \mathrm{lbs}$. Weight, costing as we have said $\$ 130$. Farm and school bells are subject to fineen per cent. duty, but church bells are duty frce. Mesers. .1. T. Bates \& Co., 135 Washington Street, Chicago, are the agents for the Wcst of the bells in question. Enquiries or orders may be addressed to them, or if parties to dark brown, the caffoin will be gone; and should they bave been roasted atill stronger, and become of black color, all the principal components of the fruit are totally destroyed, and the drink made of them does not deserve any moro the name of coffee.
The beans, made porons by the roatting-and tbus subject to the infinence of the penetrating atmosphere, will lose every day some of their aroma. To avoid this, strew some powdered sugar over them before you take them out of the hot roasting-pan-onehalf ounce of sugar will be sufficient for one pound


PLAN.
prefer, to the Editor of the Cavida Faryer. Further particularin will yrobably be gireal by anlvortise. ment in our next indue.
of coffec. The sugar will melt immediately, and Fill candy the beans, which are to be stirred and shaken. Their pores will be covered by the melted sugar, and thus be protected against the infuence of the air. The coffee will lose nearly all its smell by this procedure, but the latter will appear again so much fuller at the grinding. More recommendable it will be still, to roant only such quantity of coftee as may be wanted for one day's consamption. An open fryingpan is preferable to a closed coffee-drum, as the former affords a better cbance to watch the roasting. The beans, when roasted, are taken from the pan and spread out on $\%$ tin plate, to effect their specdy cooling, then stored in a dry place, and they must not be ground or crashed until used for making coffee. This is beat done in the following way:
Take three-fourths of the coffee-powder which you want to use, and let it boil for ten minutes in such a quantity of water as you wish to turn into coffec. After boiling ten minutes, add the foarth part of the coffee-powder left. Then rcmove tho pot from tho fre ot once, cover the vessel, and let the liquid settle for five or alr minuten. By stirring it easily then, the emall quantity of powder swimming on the surface will soon go to the bottom; and by ponring carefully into a clean pot, you will have the best cofree that can be produced.

The nsual method of making coffee leaves, often, more than half the soluble parts of the beans in the grounde of the coffe.

The coffee prepared by the above method ; not exciting, and I have convinced mygelf that ${ }^{-}$ it may be taken after dinner withont distarbing tho digestion, which latter is nearly always interrupted by the fiding of strongly-rounted costee,-zin.


The Grape Question Again.

Sis,-What grape shall we plant" is a puestion that is still heing asked by thousands of peroons in this country. boti. in the Inominion, and in the Inited States. Many of us have. in this respect, obered that scripture injunction which says --" Prove all things, hold fast that whichis good;" and to attempt to enumerate all the rarietics that have been tried, and found worthless, would occapy conviderable space, and bring to the recollection of many of us some grierous diappointments Still we must keep trying, and " try, try again ; 'and even though one plant. of a certain rariety, should be a succers or a bailure, in one part of the vineyard or garden, it is not positive proof that another of the same variety would be equally a suecess or a failure, even a fert pards distant. Is a general rule, I admit th. success or failure of the first plant will be a good criterion. I merely give the others as exceptions. In many instances, it would be impossible for the best grape grower in the country to account for the success in the one case, and the failure in the other That thousand, of newly-phanted grape vines die annually of dyepersia, or become diseased from over feeding, there is no duabt. On the other hand. it is doubtless equally true. that many grape vines that hare borne leavy erops for sereral years in succession, are dying from ill-treatment, and an insuffient amount of proper nutriment. And when tre remember that some varietios require such different treat ment, and oo muels higher eultner than others, no wonder that all on it bleveder at timer, and too hastily praiee or coudemn certain varieties on the above-mertioned points there is among grape grow ers, I dare say . scarcely a differnere ntopinion; but when we mome to the question what varieties shall we plant" we myet many of us, agree to differ. For imstaner in looking over that very interesting urticle lyy "Fus." in the ('ivids Fanver is" the lith Feb he <age --" (10 therent of Septomberlast, forty miles weat of Kingeton I found Diana grapes quite ripe, and on looking around. I found Coneords hang ing loaded with fine hunchre $j$ ovt putting on their wown" Now upon my grounds hert in Paris, when the Concord puts on its blnom the Dianais generally as green as gracs, and when it does begin to ripen, it is only a berry here and there and the whote bunch is never thoroughly ripe infire the midele of Octoluer. But that is not the wount of it For the last four gears I hare failed almont entirely uf getting fruit of any kind from Diana I have tried imporerishing and enriching the soil, fall pruning and spring pruning, much pruning and almost no pruning, and all to no cffect ; while unon the same trellis, and close by them, stand plants of Rogers' No. 3 and No 15, and each plant of Rogers' has borne more fruit in one year than eight Dianas have in four years, and as to the quality of the fruit, there is no comparicon.
In your paper, more than two jears ago, I gave my opinion that Rogers' No. 15, in the open air, is as goorl as Blach Hamburgh as we frequently see it ripened under glass. And Rogers' No. 4 is nearly as large as Black Hamburgh, both in bunch and berry; and Rogere' No. 3 is as eatly as Martford, and superton in every respect. I, therefore, repeat What I sad three yeart ago, that Rogere' 3lybril grapes are, several of them, the best varietics ever offered for sile, for thes section of country at least.

But I fancy I hear some readers of this article saying -"Does Mr. Arnold rdait that Rogers' Ifybrids are suprrior to his own Hybrids "' I neply my own Ilybrids are not jet in the market, and it will be some time before they are within the reach of everyboty nho ought to plant a grapo vine. And. readers will pleasn remember, that all persona who raise secaling grapo vinet are not like Dr. Grant, who hoasts that varieties ralsed by him are the only rarieties worth cultivating. With gour permis-ion. Mr. Editor. Gur the eatisfaction of many caquires. I will thortly furnish you with extracts from a number of letters from many of the most eminent Pumologita in America. and from sereral Horticullural magazinew, ri apecting my Hybrid fruits.
There is one other raluable anggestion in the article by "Fox." In alluding to the wild grapes of our native forest, he says:-" The country that will gron tife fruit spontancously, must surely lue suitable for its cultiration." I wish, sir, that this idea could be thoroughly impressed upon the memory of every person in the country, who has ground upon which to plant a grape vine. It would, however, be well at the same time to remumber, that it is the frost grape ( L`itis (ondijolia) only that is found in our native forest. and to the offepring of this species, bybridised with some uther, munt we look, in my opinion, for the only really hardy and healthy varieties. I hope "Fox" will excuse me if I suggert, in the most friendly manner possible, that be, in my opinion, gets of the track, when be goes from the grapes in our forest to Diana, which is a grape of another species, and one of a species that, so far as I am aware, is not found growing widi in our Canadian forest. I do not go so far as some Pomolngists in the United States hare gone, and say that Diana is not fruitul, and never can bes to any great age; and, moreover, that neither it, nor any of its color, can ever produce lealthy seedlings. This much, however, I will eay of it, that after fifteen years' trinl, no grape iv less promising, and it is about, the last grape I would now thick of planting. I will travel many miles any day to see a few plants of Diana, eight or ten years old, weil loaded with ripe frnit. When in the State of New York last season, after examining all the new varieties of a first-rate citablisbment, tho proprietor remarked that he had an old vinegard of Diana a short distance off, if I would like to see it. I eadd i would go fifty miles to sce Diana, of any considerable age, well loaded with ripe fruit. To which the gentleman replied, " We never get that liere."
As "Fox" asks for information about eeveral other varictues of grape. 1 will give my experience with them. Iona and Israella nearly froze_out, root and branch; for three years in succession, although protected the same as Rogers' IIylrids, and many other varieties close by them, that came through the winter uninjured. Lonisa, Anna, Northern Muscadine, and Perkins, all perfectly morthless. Creveling, Adirondac, and Allen's Hybrid, suffer in the winter considerably, but not so much as Yona. Allen's Hybrid is of first-rate favour, when you get it ripe, but requires about as mach attention as Sweetwater or Golden Chacselas, which it very much resembles. Xildews badly. Needs sulphur frequently.

CHARLES ARNOLD.
Paris, March 5rd, 1868.

## Trees Barkied by Mice,

## To the Edilor of Tine Canads Farmar:

Srr,-As the mice have been very numerous this year, and the snow has been deep, there will probably be many fruit trees girdled by them. Thousands of fruit trees are deatrojed yearly by those little pests. There are many precautions which, if taken in time, would prevent this destruction Orchards should, if possible, have straight fences around them, and should be kept perfeclly clean from all rubbisb, weeds, grass, \&c. Earthing up eight or ten incbes
around the trank of the tree, and removing the earth in the spring, is a good practice; it is also bencticial to tread down the snow hard around them. Dut these thingsare often neglected, and trees are girdled and lost. Where the misehief hat occurred it may still, in many cax-a, be remedied, and I ecnd yoln, accompanying this, a plan to bridgo fruit trees at a trifing cost. Trees worth from fire to thirly dollars each may be anged for fen or trealy centa.


Take 2 thrifty limb from the top of the girdled tree, or any other tree of the same kind, from which to cut scions, large or small, according to size of the trec, and length of the girulc. A tree one inch and a half in diamoter, with thric inches girdled, would require scions about the sizo of a pipe stem, and thre in number; white a tree three inches in diameter, and girdled trelvo or fifteen inches, would require scions to carry sap about threc-fourths of an inch thiek, and five or sir in number. In order to insert them, cut into the tree, half an inch below the girdle, half the thickneas of the scion you are going to use ; cut perfectly equare on the under side, and slanting down on the upper side. Next, cut in the same way above the girdle, only cut equare rabove, and lot the lower side be slanting upwards. Cut ble scions off equare at cach end, and let them be onequarter to threc-fourths of an inch longer than the space from cut to cut. Slant off the inside of the ends of the scion half its thickness, bend it with your fingers, and spring it in ; coyer the cuts abcve and below with grafting wax ; wind around the whole some strips of old colton, and bank up with carin-the earth and cotton to be removed the nezt fall. Full balf of the top should be pruned out, and the tree should not be allowed to bear fruit that scason. As soon as the snow melts array the trees Ahould De protected from sun where they are barked, by eathing up until the sap starts, when the buds begin to swell; then remove the earth, and bridge as above.

I have bridged trees in thie way, some ten years ago, and have never known ote to fall of growing and bearing fruit well up to this date.
S. II. MTCHELL,

Gardener, St. Marys, Óntario.
Clexutis Jaczuannt, we-The Farmer (Scottish) says:-In looking into the prettily kept arboretum and pleasure-grounds of Mr. James Nclson, Falkirs, we observed gnecimens of various clematis growing and Cowering profasely, trained against a boundary wall, and introduced at intortals among a rich collection of ivies. It is impossible to speak too highly of the decorative character of C. Jackmomni, Fith its large deep bluc or azare flowert of great mubstanco and charming form. O. Tubravidactec is also a fine thing, showing how well it is suited for clothing walls, and even used here on a trellis, fike a standard rose, appeared very effective. The old $C$. Sieboldii is another one of loss chowy appearance, but a capital rariety for intormixing, the sofllilac rays that pervade the fower arawing nitemtion towards it. Surely, whea peopie ysow that many of them are so hardy, and all so ceptivatiag, they frill not hesitate to introduce them.

## The 2pixity.

## The Sectional Bee-Hive.

Messhs. W. D. and J. Laffertt, of Mimico, have lrought to our ofice a sample bee-hire, which thoy are anxious to introduce to the notice of Canauian lec-keepers. It is constructed according to plans sand directions laid down in a recently published pamphlet, of which D. L. Adair, of Harcsrille, Kentucky, is the author, differing, lowever, from the hive therein represented in sizo, the Alair hire containing only 1755 cubic inches, while the Lafferiy bire contains 2150 incbes. From $n$ written account of this hive which has been handed us by the gentle-: men above named, and which consists chiefly of exextraots from Sdair's pawiblet, we glean the following particulars, Which, in addition to the accompanying cute, will enable our readers to understand the construction of tho hire in quetion, and the points of excellence and superiority claimed for it:
"The sectional bee-bire is made by forming the differeat chambers, apartments and honcy-boxes, of a series of vertical sections or rims, so fitted to cach other as to form close boxes of the size and length required. By an catirely new and simple device the been aro compelled to form the ubects of comb just where they are desired; so that when the sections are taken apuat none of the comb will be broken. The wholu is enclosed by an outer caee or box for protection from the weather. The bive is composed of-First, the brood chambers, containing 2150 cubic inches inside memeurement, which is acknowledged by Mr. Quiuby and other caperienced apiurians to be the nost suitable vize. But it can be made of any size or dimensions cither way. The brood chamber is formed uf ten vertical sections or rooms. Second, the honcy boxes, four of which aroused in each hive, two set ou the brood chamber, the other two are put on the top of the first two. The bees pass thrcuga tho lower tier of boxes' to get to the olbers: when the two lowet boxes arc half filled they are raised to dic bup and the top ones are placed on the bivou eualluwi: by this means the bees will till the four boxes an about the same time required to fill two, taus affuraing an additional supply of surplus bones. 1 out boxes of the size uscd rill hold about sixty pounds. Third, the lurood chamber and honcy boxes are enclosed in an outer case, mado sufficiently large iv allow an air space to surround the broud chambe. and honcy boxes. Thus, in w atering bees ollt $u$. doors, the space between the $b$.ood chainber and the case can bo fllod with asw dust, chaff or cut strall, leavideg two empty hon's boxes on top uf the brood chamber; the upper space above and around the honoy boxes should by atuffed ith struw, thus atording protection through the winter. The front end of the brood chamber and honey boxes is encloped with glass; thus caci hive is made a complete obierving hive at small cost.
"The wectional bee-hire has the following alvantages over any other now in use: It has all the advantages of the morable-comb hives, with none of their inoonvenioncea. It has no loose or disconnected frames to be getting out of place or order The been cappot gum or glue the frames or sections so that enoph picce of comb cannot be handled scparato from the qther. It is warmer in winter and cooler in sammer than any other hive. The size of the wosting or Drood chamber can be contractel and enlaried at will, to nuit the size or requirements of a colony. Artilicialswarms can bemore canily made than un wan other plan. It can be more easily Italianized, as every bee can bo seea and handled, and not one left in the hive. In fret, when it is completely opened out, there is no hive left, cxcept an empty outer cace. Thus thero is no chaince for the queen to dodge into nome earing where ahe cannot be found. The surphin heicy bores are in close communication with the working chamber, and also vill cricll other,
and the bees work in them with certainity. Tho honey boxes can be used to the full capacity of the bees to fill them, and they can lo forced to work in all of them at once, thercby doubling the quantity of honey made on any other plan, in any other hive. The surplus honey hoxes can be made of any conrenient size, either before or after they are flled with honey. Each piece of comb can be radily reinoved, at any time, without haring. to wait until the whole box is filled. Thus the bee-keeper can have honey in market earlier than from sny other hive, thereby

secnring a better price. The honey is in better shape for market. It can be divided into pieces of from one to two pounds, without hreaking a cell or losing a drop of hones; thus suiting $i$ v to the small retailer, and for this reason it will bring a better price. Out of the partly filled honcy boxes, flled boxes, of any desired size, can be constructed, thus making marketable as 'box honey,' a large portion o: honcy which, under any other system, would bave to be sold in bulk, or strained, which nerer brings as much by trenty-five to thirty per cent. For family use, just what honey is needed call be taken from a box without breaking what is left. The honey boxes can bo applied to any of the hires now in use, or the common hones looxes can be used with this luve, if desired."


While we cheerfully puiblish the foregoing statements, becanse we are cesirons that Canadian beekecpers may be kept inormed of all proposed improvencents in their lince of thiugs, wo are bound to say that facts do not bear out all the above assertions by any means. Tius. it as quite incorrect to say that this bive " has the folloving advantages over any other hiro new in use,"--in: smuch as all the real advantages of this hive ire common to moreable fratue hires gencrally, waite tbe only peculiar adran. tago possessed in this li:ic, ramely, the sectional honey box, is one that cac be connected rith aily other hive. It is an utter nistalse to claim that the Adair hive compels bces to baild straight comb. It is no better in this particular tian ang. other moveable frame bive : indeed it je not so good an most

Oher hires made on this principle, from the inconvenience and dificulty of getting at the interior. The only effectual plan of eccuring straight comb is to watch the bees when they commence to build. On the triangular frame with sides they will unually build straight comb, and should they legin crooked Fork in. any case, it is casy to put matters right while the comb is fresh nad plastic. The more convenient and ready of access the moveable frames are, the easier is it to do this. Tho Adair hire is awkward and difficult of access from the frames being fastened in their placet by cleats, which muth be anscrewed to get the frames apart. It is also quite Frong to aay that the procese of artificial awarming had Italianizing can be moro easily attended to in the Adair hire than any other. Unfetened frimes car surely be as eanily tranaferred to another hive an It seo that are fixturcs. As to hunting for the queen in order io Italianize, she will in nine casea out of ten be found on one of the frames, or should the rewort to the body of the hive, it is by no means dificult to ond and capture ber there.

We are as anxious as anybody can be to obtain the very best live that can bo had, but after carefal study of the Adair hive and bcok, we are unable to sec anything specially worthy of adoption except the sectional honey box, which is convenient for dividing surplus honey into.small quantities cilher for sale or tor use in the family. The Adair hive is preferable to the common box or stram hive: 80 is any moveablo frame bive, bowever rudely constructed. It is not patented in this country, and therefore can be frecly made and used by any one who chooecs to do so. Dut as jet wo bare not seen any hive to compare in conreniente aud practical utility with that mado by Xr. J. II. Thomas. We shall uge it in our apiary till wo find a bettcr. And though it coeta a trifing oullay to obtain the right to uec this $1:: 0$, we would say cmphatically to our bee-keeping readers, get the best, for that is cheapest in the end.

Ths Gondon Bef-Mite.-Thomas S. Henderson, of Beverly, asks:-"Can you, or any of your correspondeats, give me any information respecting the "Goition Moveable Corb Hive ?" It is new in this neighbourhood. However, they sell a great many, as it is said to be superior to Mr. Thomas"s."

Ass.--" Gordon's Excelsior Patent Bec Hive" wis patented Nor 28,1865 . It is made npon the moveable comb priaciple. The novelty of the hive is what sells it more than its real merits. It is so 'constructed that the frames are triangular in formthe bive running to a point at the Dottom, much in the shape of the letter V. It is claimed that dead bees, dirt, de., will full out of the hiro, and as the Inve requires to be hung in a frame, its construction not allowing it to set on a stand, or on the ground, it is claimed that millers will not find their way into it. This is all moonshinc. I hive so constructed that it camnot be set down, must of course le hang up, and some excuse must be giren for so great an incourenience. With the inexperienced, the excuse is more than sufficient-it is an improvement. This, however, is a mistake; inasmuch as in the Gordon hire, the entrance for the bees, being the full breadih of the hive, is far too large, and the moth wid find easy access, no matter whether the bive sits or hang. As for the dead becs, dirt, \&c., it is not of the slightest consequence whether they fall out or not, as it is the anty of a part of the colony to see to that bubipess, and they will do it The hiro is also far too small ; it does not contain sumcient space for breeding purposes; and if a frec entrance is given to the supers, tho queen may frequently deposit egge in them. Tho frames rest upon a level bearing, which makes it difficult to remove them when flled with combs; in this reapect it is like many other frame hives. There is a liar running through the centre of the hive, which will be apt to cause the bees to build crooted comb, and is thersforo objectionsble. It will also be found very inconvenient when hiving a sparm, as the bees must be put into the top of the hive, which is a very troublesome task. No ono but a party. interested in the salo of this live will pretead that fitis superior to that of Mr. Thomas.


## Miscellaneous Notes and Queries.

A corresrondent from Sidney eends the follow-ing:-
I am glid to say that cuternrise sod capital are at Fork in the neghbourbood of tho Trent, cndearour. ing to utilize and tame portions of this stream. The Messrs. Sills haro crected a largo stone building for the purpose of a paper will, which business they intend to pursuc on an extensire ecalc. Theg are condearouring to indice firmers in this ricinity to grow flax, the fibre of which they would use in their business. Do jou think the growth of it for sced and Abro rould pay the farmer? At what price could be afford to sell it to realize profit? Is the seed manufactured into oil cake and linsecdeoil in the Prorince: Other mills and manufactories are in the course of crection.
I would eaquire whether leached ashes are useful as a fertilizer onall soils, or on which ure they most benescial? Would it pay to drave them four miles for the purpose? Would they be good as a dressing for hops?
Large quantities of clover were raised here the past scason. I nerer had so tangible a proof of tise efficacy of plaster betore as on that crop. Contrabted side by side, the difference between the plastered and unplastered was obrious, both in color and size. Of the seed a large quantity was raised, more I think than is required for local temand. Could it be exported abroad, and which forcign market would be the best? Ilow long does the seed retain its vitality? A great deal of the land on this side the riserabounds in flat limestone, wilich crops out on the surface. The rocks scem to contain the remains of shell-fisin and otber aquatic creatures. I found cmbeded in one, the vertebre of some creature, six or cight inches in length Are thes deposits fresh water or marine? When disintegrated bs grinding, attrition, and atmospheric ageney, do they supply any element of plant life to the soil?
Enclosed Isendyon aninsect. What isat: I caught it last summer Perlaps zou can tell ne all aboutst, and it may be worth a place in your cabinet.

I remain, yours respectully,

## JUIIN S. BOCTIDIIER.

Ass-With a string of questions like the abore on hand, one feels almost as if he rere sitting down as a candidate for a degree, to furnish answers for an examination paper. We will, howerer, as briefly as possible reply to our correspondent's queries. With regard to the flax. he will see the question repeatedly considered in the former volumes of the Cajida Faryer. Practical men among us differ in their opinions respecting the profit of raising this crop in Canada. Some have done well with it, and we think it deserves a further trial. The price, to leave a margin of prolit, must sary, and depends on a number of circumstances affecting the cost of production. Ordinarily an arerage yield of two tons to the acre, at $\$ 12$ to $\$ 15$ per ton, wonld pay. As regards the price oi the seed, from six to eight bubhels is a common yield to the ton, and should be worth about two dollars the bustrel. Oil cake is not now nanufactured, to our knowledge, in Ontario, though Lyman \& Co., we beliere, still carry on the manufacture largely in Monircal.

Ieached asbes, though far inferior to unleached, are yet of consituerable value both on light and heary soils, especially tho latter. It is doubtful whether they would pay for the bauling the distance mentioned, four miles. Ilops require some richer manare.

With reference to the clover sead-there will probably be, for some time to come, market enough at
home for all that will the raised. The United Siates export a coariecsabie quantity, and we should probably And Great Britain our best foreign market for any turplus. If the seed bas been kept perfectly dry, it rill be gulle fit for ueo the seconil year; but thengb, uader farorable circumstancer, it will relain ite ritality for a much longer period, we mould not recommend any ono to depend apon it after the eccond jear. The limetoric about Trenton is a marine formation, and would perhaps yicld, on ac. count of its animal remains, traces of phosphate as well as a large proportion of carbonale of lime. The Trenten limeetone contains no foseil rertebrate animals. The fossil whleh our correepondent mistook for a verlebral column was probably an orthoccratite. a gerus of the nautius family, differing from tho prerailing form in being stralght instead of coiled. Theac creatures were molluske, and their shells consistect of long conical columns dirided into cells by horizontal partitions, the cells commonicaling with each other by an internal tube running through the whole length.
The insect encloeed bas laret very badly in its transit. Such apecimens should be sent in boxes. The debris, broken into innumerable rragments, bad evidencly ance been a dragon fy, one of the neuroptera, but of That species re conll not determine.

## The Ottawa Valleg.

## To the Editor of Tus Cimada Farmer:

Sir,-The subject of the letter in jour number for February 10t, headed "Farming in Canada," by your corresponilent, "Subscriber," has for a consilicrable time been present to my minh, and suggested the idea long since of addressing you on it. I reside in the immediato ricinity of the capital of the Dominion. The character of the aurrounding country, known as the valley of the Ottawa, does not stand ligh for its fertility in the estimation of thoes at a distance. The reraon is two-fold. 1st. The land west of this city has been more recently seltled, nol longer than say fifty gears, before which time it may be justlysaid, fof the prastical purpose of this communication, that the sound of the farmer' axe was not heard in its vast recesses. It was at that time, in fact, a howling wild'erness. 2nd. Being the Switzerland of Canada for rariety and picturesqueness of scenery, in which it far excels any other part, its rocks and its mountains atanding forth in bold relief were the first and most striking objects which arrested the attention of the explorer, and mast necessarily have impressed him with an idea unfavourable to its fertility-an impression still further deepened by the cold impenetrable gloom of its silent and apparently interminable foresto. But the are of the settler, in bringing down its trees, has also brought down this crror. The wide extending valleys and spacious plains of the Ottawa, which for more than two hundred miles upwards from its confluence with the St. Lapizence border its northern and southern banks, are not excelled by any other part of Canada in variety, depth and richness of ac! ; wherever mind has enlisted in the cause of agticulture the resources and results of science, the reward has been equal to any which has blessed the supposed more fortunato farmer of the West. But as a body our farmers are the least advanced of their class in the bnowledge $u$ : their calling; and no wonder, for they are for the most part the firet seltlers-immigrants without training, habits of thought, or capital-descendants of a non-progressive race, who could with difficulty rea lizo anything as an improvement which they had not inberited from their furcfathers; and as they were planted in isolated settlements, between which and the civilized world commanication, in the absence of rouds, was dimeult, it was but reasonable to expect that a spirit of self-satiffaction would arise and be fostered, hontile to change. Yet, notwithetanding these and other ineil: conceived unfavorable condi-
tions, raet progress hae been made withl the iad Gteen years. I cannot characterize it otherwise than ns marrellons. The acivantages of machinery in general are fully appreciated, and the particular merits of epectal mechavical implements for lightening toll and accelerating work are keenly and intebligently diecuseed and ralued, and immediately pur chmoed. Comparativo woalth it the result. Independence and comfort are now the gencral attributes of the tiller of the soil, and here and there may be eeen oxtencive farms which would look reeprectable in the eyes eren of the old-couniryman. Prejudice, therefore, againet this part of the country at an agtioaltoral district is unremeoneble, and mast soon fade cntire!y awny before the adrancing light of accurate knowledge of its cepabilities and jueter appreciation of its beanties. I pacs entircly by tho cilcment of salubrity, it being admiticdly the bealthiest part of Canada.
Then, again, as an inducement to the sottler, the facil!tics for acquiring property are very great. How often have I hearl persons well scquainted with the more faroured districts of Canads exclaim, "Well: if such and' such a farm could only be need by a home farmer, possenaing a small capital of a few thousand dollars, how quickly it would be sbatched up; and to think that for such a sum a man may pur. chasc a amall estate, and instead of being a tenant become a proprictor-tbe ambition and the glory of 2n Englishman-the owner of one, or it may be two bundred acres of land unexcelled by any at home, Fith, it may be, a handeome, commodlons honse, cxtensive baildings, cleared and feaced, and ready to reccire the purchaser without a farthing of outlay!!"
That farming in Canada, intelligently conducted, cannof fail to lead to independence in ciery instance, and to a certain degree even of afluonce in many, may te scceptod an an eatabliahed fact by any person poneeming the mont superacial acquaintance with the bistory of individanal enterprise in this country. I kanm men in the Eantern to washipe who bought their farme, and even atock, on credit, and who, by tho prodis of stock raining, in a few years (and I think
in one case specially before my mind as I prite, in one case specially before my mind as I write, seven) not only repald the borrowed capital with interest before it foll due, but actually bought more land. It is most cheering, in trivelling through those townships intersected by the Grand Trunk Railway (and the same remarks spply to the other to wnships, but especially to theae, to observe the beauty of the farms-the neatnea of the tillage-the atyle and size of the honsen-the elegance of the furniture - the air of completences, opulence and comfort which characterizes them ; and yet equal if not more favorable conditions obtain here, 1 believe, for securing the same resalte.
The great boily of our farmers in the Ottawa Valles are poor, for the following reamons, in addition to those already given. Ist. Becanse their boldingu are small. Very fcw cultivateas many an ary acrea. 2nd. Their lives are spent principally in cleariog without capital, and consequently without askistance. 3rd. They know litule or noth ig of farming as a science. The practice is not ancommon of expaunting the land as they clear-propouncing it good for nothing, learing it to return to a mate of nature, and clearing more, to bo in its turn erhaunted and deserted. Such a waste of time and labor at subeoiling and tiledraining are nearly unknown. Monwy is to them a great object. Hence there is unusual facility for the purchase of land all over the conatry for cash. Eren within a radius of ten miles of the City of Ottarme there are sbundant, opportanities for selection. Ex. cellent land can be obtained within these limits at from es to elo per scre. The latter I would considet an extreme price, yet it cannot bo considered high in view of the immense adrantage of proximity to so good and mre a marzet for all kind of produco as that of the oity, and where cord-wood of all kinds may be sold readily at such a price as materially to aid in paying, out of the proats, the parchase money of the property. That 80 very fow persons inquire for lands in this vicinity with a viow to purchaec has ever been to me, in viet of the above adrantages, : source of extreme wonder. I may be wrong, but I have often expresed the conviction of my mind that a person might go blindfold thronghont the country, and buy lands at the frat price anked, and be sure in avo years, such is the upward tendency of thinge, to realize a bandsome prout on his quderianting.
February 10. 1898.

## Government and the Midge.

## Tit the Ellum of Thn Canans Fanmer:

Sin,-Yon rary truly ohaervo. in your isane ni $x_{\text {antiary }}$ lith, that un the prowent time the Aplichltural lurvan bas bern of lithe value to the country. and you exprecu the opinien that its future will ho more useful. I am encouraged liy the article containing these stalumente to advance some ileas (which, howerer, may ncell corrcetingi, derived I brlieve chlinly from sour culnmon, on the -ubiect of the wheat midgi. I anppoun there ia littlo doubt that the annual loss to Conada hy this invect counts by hundreds of thonsand if not millions of dollare: for afer all is mild and lone an to enltivation with a rier to ovade itsdepredations. I helievo that where it is onco ratablishel the wheat crop is diminished about one-baif. Now is it true, as no are told, that this insect is slwayn more or lese prearne in the wheat crops of the old conniry, and yel that it has never destroyed them to the extent of more than an extimated twentieth, and that only in one reason: Is it true aleo that tho midgo has there at least two paraites, and that these are not foumd in this conntry? Is it not posible then, nay evan probable, that if these insects wero introduced into the midge-infected dis-
tricts of this country, the ahundance of their proper tricts of this country, the abundance of their proper
food would, as in other like cases, cause them to multiply rapilly, and thus our wheat ilelds bo at least partially reacued from their destroger? Of course, even if my opinions are correct, there are contingencies afecting the question of succese, but these can only be gettled by un experiment. Though a farmer, I am by no means desirous that this branch ef industry should depend for success on State subsidies, and I am sometimes mado half ashamed by tho cagerness of my neighbors, as expresed at agricultural meetings, \&c., to obtain as large Government grants as possible; lut it is almost selferident that such a measure as 1 am adrocating, involving as it would considerable expense, and aiming at univereal benefit, must, if undertaben at all, be a Government cnterprize. Pleave, if necessary, correct my notions and give your riews on the subject
Guelph, Feb. 24, 1808.
Note by Ed. C. F.-Our correspondent has called altcntion to an importint practical subject. We believe that the best entomologists coneurinthinking that an effectual check to the midge pert can only be loeked for in the way indicated. It is thus that other insect depreda' ra hare been subdued; and although in the instances in which this has been known to hare laken place the result has come about in the natural order of events, we see not why direct effort rhould not be made to accomplish the end. The experiment is an interesting one. It could bardly be very costly. Ccrainly, in riew of the interests at stake, it is well worth trying.

Dresisic Skinx-A cornespondent asks:-Can ou, or any of your subseribers, tell me the beat way to preserve calf and sheep skins, so as to make them useful as sleigh robes $\gamma$
Ans-See Canada Fanyer, June 15th, 18i7, Vol. 4. page 191.

Inported Eggs for Inatcuig.- 1 subscriber writing from Highland Creck enquires whether " eggs brought from England by steamer to Quebec, and therce by express to Toronto, would be of ang use for batching purposes."
Ass-If properly packed, eggs should bear even a longer journey without injury. We know parties who have thus received eggs from England, and successfully hatched them in this country.
Colien Dror Wneat.-Aaron Choato a nquires:Can any of the correspondents, or reades ent the Clayada Faryer, give to the pablic the origin of a new and valuable variely of spring wheat known here as the "Golden Drop?" It resembles the Fifo Wheat in the field, but grows much stronger, is a longer berry, ard more pointed at tho ends, yields nearly fily per cent. more, welghs well, is free from rust, and is mach prized by millers. I paid to Wm. Barrett, miller, of Port Hope, sixty cents over market price, per boshel, for the seed, and the yield amply repaid the oullay, being nearly double that of any other wheat in tho neighbourhood. Enquiring after its origin, I am informed the seed was brought from the West, some say from Damfries, near Galt or the West, some say from Damiries, near galt or Paria Ihapo by

Drill Somwo.-A mberther aeks what we consider the adrantage of Drill Cowlog. In ordinary broad-cust sowing a large proportion of the seed nerer germinatex, some heing left expesel on the arface, and some buried toa drep; wbercas, hy the nue of the drill, the depthat which all the ered is deposited can be nicely regulated, and the corering up etenly sccured. The re-ulta are, os considerathe saring of eefl, a etronger and liealthier growih of the plants, and penetally, therefore, a larger yiehl.
Qremes-R. W. S. Wroulstock, kays "That a friond. visitigg in the Connty of Carleton, last sum uner. learnt that, by the payment of \$4.ma to thr Treasurer of the Tomnaip Socioly. Napanm. I think. the subseribur way atitled to the Cavipa Farmer, and sleo to the privilege of sitti ig at the Board as a director of said eocirty. Perhape Prof. Bucklannl. who has rivitel that County, can say if such is the cake. and hy what legal authority wneh practice is permiltes.

* It the last Prorincial Exbibition, hela at Lon don, a cartiton raller Fas exlibited, having two hollow cylinders or compartmente, in which to intro duce Fater to increas? the weight of the roller to the requirementa of the land. Can 50 inform me where and at what price it can be obtained ${ }^{\prime \prime}$
Note ir Ed. C. F.-In reference to the arst query we think there must be some mistake. A copy of the Casama Farmer is included among the returns for the annual subscription to a large propertion of the agriculturn societies ; lint the privilage of sitting on the Board of such mocieties cannot be a matter to be bought and sold. Prof. Duckland has no knowledge of the matters to which our correspondent refers. If the second query should meet the ege of the manu, facturer of the roller mentioned, he will, perbape, give the information cought. S. Harris and son, Beamsville, exhibited a cast iron roller at the Provincial Exhibition in London, in $18 \mathrm{ci}^{5}$.


## (1)he (1) mada dranmer.

TORONTO, CANADA, MARCE 16, 1968.

## A Wheat Growers' Association.

A whiter in an exchange paper, adverting to the procecdings at Dairymen's Aseociations, and their manifest utility in developing the cheese interest, asks: "Why not have in Wheat Growers' Association." He rery justly observes that the amount involved is vastly greater, and the importance of the product second to none. Moreover, $\overline{\text { Fithio }}$ the wheat crop has become uncertain in various localities and many good farmers have given up attempting to raise it, there are still those who continue to grow our staple cereal with success, and it would be of great value to others for publicity to be given to their methods and experiences.
There is wisdom and force in these observations, and they only go to $\begin{gathered}\text { how } \\ \text { the advantage to be derived }\end{gathered}$ from comparisor, of opinions and practices in connection with frrming operations, such as clube, associathons 2nd tae like, secure. No one present at the recent Dairy Convention at Ingersoll, could fail to be struck with the manifest benefits of sach a gathering. Whether it is best to have a Wheat Growers' Association as we have Dairy and Wool Growers' Associations, is a question to be considered; but toat we need some opportunity for investigating these matters, comparing notes, discussing plans, and giving publicity to valuablo items of dear-bonght oxperience, is too evident to admit of debate. In overy rural neighbourhood there should be some organization of the kind in active operation all the year round, whilo occasional conventions on a larger scale, and attracting more pablio attention, could hardly fail to be productire of great adrantage to the farmiue co.ananitr.

## Noxon's Fretory, Ingersoll.

Whrs at the Dairy Convention riently, te took the rpportunity of looking through the aborn factery, and though our ricit was necestaily a fhort and
 ammunt of business wan being done. and an excellont quality of work turned out. The entabliwhment is rery romplete in machinery and laboursaving arrangemente. We were glad io learn that an incroa ${ }^{\text {ang }}$ demand is manifested on the part of the farming community in that part of the Provine for implemmens of the very best nodel and woikmanship. Serenty-five mowern and reapers were made and alsposed nrat thiv factory last year. and this year twico that number ary being got up. The Mezars, Noxon manufacture a combined machino. whirh unites tho best features of the Ohio and Huckere, and hae, withal, a elf-raking attachment. Thas machine has the Ohio cutter har, and the Buckeyo gearing. It is compact. light of dranght. yet of greatetrength, and is mad to give much sati-faction to thowe who have used it.
Our readers are of curre, arare that the Dessera Naxon make a rery effective cultivator, since this implement has been described, illustrated, and ad. rertised in this joural. We are glad to nnd that no ferrer than three hundred of these uveful implements are turned out yearly from this fuetors. Tho eatablishment in question comprises a fouidry. Iron and Food-turning shops, smithery, carpentery, paint hop, ece ; in sbort, there is every facitity for taking the raw material, and metamorphosing it into the fnished tool.
As elsewhere mentioned, the Mesan. Noxon furnigh dairy requisites of all ports. They eren adretiso to "supply first-clazs chece-makers." The leading member of the firm is the edcient Serretary of tho Canadian Dairymen'a Association, and is thoroughly posted in al! that pertains to cheese-making.

## Prices and Marketing.

Av excellent article on the abore subject appeared in a recent number of the Country Genlleman, the up--hot of which was to show that farmers marely gain by holding on to produce for high prices, and that it Is the part of wisdom to sell when there is a fair market. Even if a litte more is obtainm by holding prodace, there is loss by shrinkage, rats, interest, dc., beside constant risk in connection with perishable property. The testimony of a farmer of considerable experience is to this effect:-" When I was young, and in debt, I was compelled to sell my grain and wool without delay to meet my parments; bul since I have got out of debt, I uften keep them 'for months, in order to receive higher prices 1 find in the average of years, that I did better then thap now."
No emall amount of anxiety is often experienced. and many a sleepless night passed, under the feverish desire to know just when to sell, co as to realizo the most by so doing. Our contemporary reasons that it is every way best-to market produce when there is a fair demand, at a reasonable price. We quote the closing paragraph of the article under consider-ation:-
"Farmers arc hard to satisfy. Many years ago wheat ran up for a short time to $\$ 2.00$. A purchaser Fishing to obtain some very fine seed wheat, offered the farmer $\$ 2.25$-which, exciting his suspicions and increasing his rapacity, he refused-to ecll the next year at half price. It seems that the higher rates advance, the more dissatisfied many become. We can well remember when the standard price for wheat in Western New-York was three shillings (377c.) per bushel-some was actually sold for one shilling. Now that the price is two dollars and a half, or more, We find owners as much dissatisfied as ever. Thls dissatisfaction induces them to hold out against their wn interest, as already shown. We should be glad if some of our readers would seep a record for the next ten years, embracing the following points: On one side place the price of grain on the firdt ef October; on the other, the price on the first of May, dedueting from the latter, the waste by keeping, rats, weevil, \&c., the surinkage by dryi.g, the trouble and cost of storage, and the interest on the whole-then observe on which side the greatest amount of profit is found. We have no doubt the experiment would prove a useful one, and show the propriety of selling firn then is as fair demand in market."

