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Vol. I. No. 9.]
TORONTO, UPPER CANADA, MAY 16, 1864.
[Postage Free.

## Elte givd

## Corn for Fodder,

Ir is very doubtiul whether any other green furage plant can be named, which, in this climate, yields so large a product per acre as Indian Corn. For soiling purposes, its value is very great. Sown about the first of June, so as to incur no rish from frost, it grows with wonderful rapidity, its broad long leaves drinking in from the sun and air the nutriment suited to its nature. It is valuable too as a crop for fodder, but the difficulty is so to cure and stack it as to aroid mildew and rot. This, howerer, can be done by proper care and attention. In the first place, to bave good fodder, corn must be cut before the leaves and stalks bégin to dry up;-in fact while it is yet green. Lo soon as the corn is glazed; it may be cut without detriment to the grain. The proper time may easily be ascertained by this rule even when corn is sown broad-cast, as there will always be stray stalks around the edges of the patch, which will mature ears. The second step is to put the stalks up in shocks. Where material, such as oat straw, \&c., cau be had for bands, the best way is to make the bundles of a handy size, and then stack them somewhat after the manner in which grainsheaves are made into shocks. After husking, if a crop of grain bas been the main object,

- or in the case of broad-cast corn, when the stalks are pretty thoroughly cured, the third part of the process will need attention, viz: storing up for winter use. A great blunder is often committed, that of stowing away corn stalks after the fashion of hay in a mow, in the barn. This is Infallibly to spoil the whole. No matter how dry corn fodder may appear, there is alrays enough moisture in the butt of the stalk after standing for weeks on the ground, to insure heat and mildew, when closely packed in a barn. It is botter to make a stack in a convenient place close to the stables and sheds, and to build it in as loose a manner as is consistent with due protection from the weather. A good plan is to fix a stout pole some 15 tect long into the ground, and set the bundles around it , capping the whole so as to shed rain. Another good Fay is to make the stack entirely with corn bundics, inst setting a row of bundles perpondicularly with the butts firmly against the ground, then \& row on each side with the tops pressing firmly agr"ers the first row, and inclining at an angle of $\varepsilon$ "eat 60 degrees. Next a tier on each side resting on the bands of the last row. Then begin at the ground again and' carry up a tior on cach side as before, taking care that tho last row of each tier shall cap the rick. Put up in somo such way, as this, 80 as, to expoee the stalks to the air, and yet protect them from the rain, they will keep fresh and good, and when the snow, in on the ground, and winter's reign established, they Frill be greedly caten by ahoep and cattle, tor both of which they form very nutritious food.


## Gouch Grass.

A excent number of the London Alyricultwal Gasctte begins its leading article by asking the question? "What is the plant which most occupies the attention and engages the interest of the British farmer ?" Strange to say, this is the reply to the question: "It is Cluch Grass." This question and answer not only indicate that British farmers are excessively troubled by this pest of the soil, but it is one of many proofs of that anxicty and diligence in regard to the extirpation of weeds, which many slovenly Canadian farmers would do well to take both as a rebuke and a lesson.
Couch grass is already very troublesome in many parts of this country, and the greatest pains ought to be takea in order to anuihilate it. Yes, annihilate is the word; nothing short of utter extinction will do. and that is no casy task. The Gencsec Farmer referring to this nuisance, speaks of a noted farmer who had had considerable experience with couch grass, and who was asked by a neighbour the best way to destroy it. With a merry tivinkle of the eye, he replied, "Fork it up carefully, so as not to leave a particle of root in the ground. Then pat it on the top of a stump, where the sun can scorch it. Then take a stone and hammer it out flat.-If the wind does not blow it of the stump, I think it will die in the course of the summer or winter following." In this jocose method, the wonderful tenacity of life which characterizes this species of grass, was well brought out. It can only be got rid of by a war_to the knife of downright extermination.

## Bones.

Tuzre is a wealth of manure of the best quality in bones, and they should by all means be preserved, and turned to good account. Even the small quantity comparatively, which is thrown away as the waste of the family kitchen, is by no neans to be despised. There are various methods by which they may be prepared for application to the soil. Most bones may be broken up by a beavy iron hammer or mallet, but for immediate effect it is desirable to rednce them to a state of greater fineness, in fact, to bonedast. They may bo burned, and then readily reduced to an impalpable powder. Piled up with wood, they bum casily, and it is said a wheel-barrowload of wood will burn a ton of raw bones, leaving a mixed white and coaly mass, which is ivery casily broken up. Boncs may be prepared for use by fermentation. There are various ways of doing this. The bones, cither whole or broken into large pieces, which is the better modo, may be thrown into a box, barrol, or hogshead, and let down into the ground in a moist place, where the drainage of the cow-jard, the urine from a privy, soapsuds, dishrater, or any water containing organic matter, liable to become puircscent, may keep them constantly moist. Any other refuseanimal matter may be. thrown into the same receptacle. In
default of a suituble vessel, a bole in the gronnd will answer the purpose. Let it be two or threo times as wide as it is deep, and if the bottom be of clay, it will be all the better. A coating of freeh stable manure to the depth of eight or ten inches, will hasten the process. Some coal dust, or charcoal finely broken, put under the namure will absorb the escaping ammonia and preveat an offensive smell. In from four to six weeks, the hard bones will have become so soft, that a spade may be forced through them easily. They should now be mixed with loam, decomposed muck, or any well-rotted manure, and applied to the land. Another process is to pack away the bones in a hogehead or box, and mix good, unleached rood ashes with them, (about a bushel of ashes to a barrol of bones will do) ponring water or soapsuds over them. After five or six weeks, the water may be allowed to evaporate and a decomposed soapy mass will remain which may be dried, pounded up and applied to the soil. Or the bones may be collected in a pot, tight box, or barrel, and covered with lye. This will reduce them to a soft pulpy mass. Here you have precious stuff.-Dilute it and you will have the very best liquid manure Or if preferred, it may be mixed as above directed, with loam or muck, and applied in that form. Every farmer and gardener, should rigidly economize the bones. Let none be lost. It is better to plough or dig them under, than do nothing with them. But by the above methods, all of which are simple and practicable, this valuable manure, so much of which is now wasted, may be tùrned into speedy and profitable use.

Mascre Spreader.-An ingenious American has invented some machinery by which a load of manure can be well spread upon land, without hand labour. The waggon used for hauling it has a moveablo bottom, and is provided vith self-acting forks, whioh tear the manure to pieces and draw it upon a conical screen, by which it is regularly distributed upon the land. The S'cientific American says that," the machine forms a very efficient and convenient one for the purpose."

## Hangarian Grass,

Soxe farmers persist in ranking this product among the humbugs of the day, but there seems to be ample ovidence going to show that on suitable soil, it is one of the most valuable of forage crops. A writer in the Couniry Geutleman who has raised this grass for four successive seasons, says he has never failed to have "tremendous crops." He aidds, "I can show positively, that I have raised five tons of cured hay to the measured acre." He recommends it highly as a winter food for horses, and on the whole considers it the most valuable grass crop he can sow.
For the bencat of those who are dizposed to try thls comparatively new prodact we append some brief directions as to the mode of cnitivation. Preparo
the ground as for oats, or spring wheat. Do all the dragging before sowing. Sow from 12 to 28 quarts per acre, as yon desire your hay fine or coarse. After the sowing a rery light mooden-looth drag will do, but if the ground is in a right state (dryigh) a roller is better. If the soil is fine and youran son immedintely hefore a heavy rain, nether dmgging nor rolling is required. Sow whenever it is the right time to plant corn. It is like corn. and will not grow until corn would. and frost will kill it as quirkis Time of harvesting, ninety days from sowing. It will not do to sow it as a seeding crop for other grasses to follow, as its growth is so dense. as to orortop. shade and destroy every thing else, puen weeds.

## Flaz Manufacture.

To the Elitor of Tus: Casada Farmer
Cir, Twenty years ago there was lithe or no word about growing flax in Canada. Then, aud untillately, we could get ang amount of cotton goods. This is all changed now Cotton is not only king but sules witbont mercy. He charges what le likes and gets what be charges. Cotton warp yarn was wont to be about one dollar and a quarter the bunch, now it is no less than three dollars and a guarter. Whether flax is destined to take the place of cotton to some extent time can only tell, but I have seen as good linseywoolscy in Scotlund as I over saw cotion-wincey in Canada. The supply of cotton. hemp and fax should seen pace with the increase of population. Is it doing so? I rather doubt it. Only look at the population of Canada now and trienty gears ago, and the rest of Imerica besides It cannot be supposed that the Hax-growiag countrip; of Furope are clearing new acres as the population of the rorld is going on. Hence fe must grow flax whether we will or not. It is a coramon complaint in the mother conntry that enough of the raw material cannot be got. And it is not very much fonder since one town alone in Scotland. in 1839. imported no less than 32,462 tons of flax and hemp, and had 41 spinning mills in full olast, while young Canada has only yet one in embryo.
There is one fact which ought to hate a guod deal of weight in promoting the growth of flax, and that is the great expence of importing and exporting all the flax and hemp goods which the Canadian people purchage In the first place the most of the raw material is imported from Russia into Britain. Then it goes into the hands of the wholesale merchant, he eclls it to the mill spinner; the mill spinner sells the yarn to the cloth manufacturer, and he sells to the Fholesale merchant again, who exports. it to the wholesale merchant of America; and he again sells it to our storekeepers. Took at the expense thus caused, added to which is freight and traneportation to our doors. I could buy for about five pence in the home market that for bhich I pay about a quarter dollar in Canada. Let us therefore both grow and manufacture our own fax.

Nichull, April 6, 1 sby .
JAYFS BIIK

## Flax Prospects.

## To the Editor of The Cavada Farajar

Sir,-Secing the decp interest you have taken since you commenced the publication of sour raluable agrienltural jonrnal, in fnrmishiog yuur readers ci ery item of information likely to be of interest to those disposed to attempt the growth and manufacture of finx. it will be encouraging for jou to knuw that such information bas not been withuut most benefical results. From twenty to thirty new scutching mills arc in course of construction in different parts of the Prorince, and many more parties are making preparations for raising flax the present season. seed has been liberally offered by parties who intend to manufacture Rax, to the farmers for sowing.
It is to beragrefted that in many parto of the wuntig farmera hare h, en compelicd to pluugh up them tants where they soned fall wheat last autumn, in many cases owing to the onenacss of the winter and the effect of the frost in the spring. To those thus cir oumstanced I would say, such lands will be admir-
ably adapted for fax ; and if they fill only follow the instruotlons given from time to time in letters, writion both in the papers and in Tie Cavada Firwxi, they will ind their loss will be in a great measure made up.
The demand for seed bas been no great this spring, that already tanany partles bave been o ompelled tosend to Nontreal ; and from what I can l-arm, a quantisy has been brought from the Statea and offered for ante in Toronto. Last reek a large meeting was held in Weston, when Mr. Walker delisered a lecture on this important subject. A number of the respectable and intelligent agriculturists of the Townships of York and Etobicoke wero present. So much interest was manifested as to encourage Mr. John Dennis to Frepare to put up a mill on the rive Humber, where he has an excellent water power. He has secured a londred bushels of prime seed, and is distributing it on liberal terms to those who wish to make trial of this crop. The price of seed alone is, or ought to be, great encouragement to the farmers for sowing. At present it is $\$ 2.50$ per bushel, and the ordinary price after harrest is $\$ 150$, just double the present price for spring wheat.
J. A. DON.1LDSON.

Spring Mount. Weston. 1
April 25, 1864.
[Nots: by En. G. F.-The season has been su wet and backward, that it is not jet too late in many localities to sow flax on well prepared soil.]

## Canadian Flax and Iinen,

## To the Ealitor of The Canada Farmea:

Sir, I wish to agitate the cultivation of flun, about which you have already written so much. I see from the papers, that in many parts of Europe. gax is manufartured to a large evtent and very successfully, it being mixed with wool aud cutton. Nuw that it has been shown that flax can be raised in this country, as well as any other part of the work, it seems rery desirable that our farmers should turn their attention to it especlally as Canada is so large a cunsumer, which the following staterent from the public accuants fur threc gears nill shull.

Importations of Linen for 1360 valre:
Dtty.
:22,364. 21
68,323 27
64,568.59
$\$ 926,610$. 185,256.07
The mhlur of flax in all its various fabrics throughout the civilized world, is estimated at iwenty millions sterling per annum. What a source of industry and wealth to Canada, if the farmers generally were to give it a fair trial. If our Government were to give sufficient encouragement in importing scutching mills, and manufacturing machinery, I have no doubt but farmers gencrally would make the attempt on a small scale to mise fiax, until by experience they could do so more successfully on a larger scale. If the agricultural societies of Canada were to petition the Government on this subject. I have no double but what reasunable assistance might be obtained from that source. The flax that was exhibited at the Kingston Exhibition last fall, was said to be equal to any that was imported, the libret appeared to be as fine, as white, and as strong as the imported article. It nay be impossible to manufacture the innest fabrics at present, yet the coarser kinds could easily ve manufactared, for making bags, sails, bedticks, \&c. much cheaper than the imported linens. I hope therefore, that this present season an attempt will be made to rase a large quantity of this staple article, if 80, I have no doubt but means will be taken to manufacture it.

Utiafa, April 14, 1864.
E. Mors

## Mr. Blesard's Drains.

To the Liditor of Tue Canada Faryerz
Sir,-Our district happens to be a very dat heary clay soll, very wet, and at the mame time almost destitute of draining ranterial. Yoreover we are very panr It appente to na, howevit, that Xir. Blesard's auggestion contalned in خेo. 0, might be carried. out to some extent, if he would only favour us with 2 more minute explanation of his manner of conaltucting bis wooden pipes. Is each pipe made with four
or only threesides? If only ithee, then of course rec presume the fth side of auch a pipe frill bo the bottom of the drain. If he makes the pipes rith four sides of wood, and berela the one into the other, it appears to us, that the joints might become too close, nad thus provent the ingtess of rater. This may appear to Mr. D. nnd yourself, Mr Editor, a childish enquiry but the fact is ue are chlldish farmers having been more accustomed to tandle the shuttle, and the and. than the spade and the plough. lnstructions are much required and will be thankfilly recelved.
D. \& E. 8.

Murningtun, April 18th, 1864.

## Wild Oats

To the filitor of Tim; Cavain Famana.
Sif,-Mr. stirtons bill to prevent the spreading of Cunada Thistles is indeed a good one, und well calctlated to stop. the progress of one source of great tr, uble to the farmers. It would be well if some patriotic member would bring a similar bill before parlis nent to prevent the spreading of Wild Oats, as they are much more to be dreaded and more prejudicial to the interests of farmers in the Township of Fullerton. and in fact to the farmers of a great part of the Comnty of Perth, than Canada thistles, bad as they are. But, as there is no probability of a legislative enactment to prevent their growth and spreading this seasun, you Mr. Editor, rould confer a great boon upon the farmers along the Thames road, and others no doult, by giving the best direclifns, in sout upinion, fut then eatirpation, and also by inviting the nomerous readers and correspoudents of the Fabasir to write essays on the best method of emalicaling thera. Mr. Fditor, perhaps you do not know how stubborn they a re, some people say their roots will go to the depth of sereral fect into the ground, others say they will even grow after being bulled in a pot. this may be an absurdity, but one thing is certain. they go deep enough. and travel fast enough to be a dreadful nuisance. I would further ask what punibhuent unght to be inficted apou the evil disposed person or persons, who sowed wild oats broadcast orer the felds of a respectable furmer in this neighbourhoo l, while people slumbered and slept?
H. S. J M

Fullerton, tpril 8, 1864

## Vitality of Seeds.

To the Elitor of Tue Canada Faryer:
Sin,-The remarks on the vitality of turnip seed on page 77 of the Casada Faryer copied from the English Agricultural Gaiette are all gammon.-1 have sown turnip seed for 23 years and bave annually proved its vitality by first sowing 100 seedsin a flower pot and the result has invariably been from 96 to 100 plants from 100 seeds of one year old; I have at the present moment sixty-eight plants from 100 sceds gathered in the year. 1856 , showing 68 per cent of vitality in turnip seed eight years old, a very different result from that given in the English paper. While on tho subject of seed, I may obscrve that it is a common subject of complaint amongst farmers. gardenets, and florista, that dealers occasionally victimize them by selling seed that wont grow, or thiat grows very indifferently. Whether the dealers are deceived by their suppliers, or whether they sell thie remnants of previous years, the loss to the public is all the same, and the party who organizes a protection society to teach delinquents better manners, will be a general bencfactor. For the information of your corrcoiondent on page 88 , I give my experionoe with aulphur. I dust the turnip secd early in the winter witi sulphar. and allow three pounds of sced to the acre. I have never falled to raise a crop. Otherisaccenful groinés will probably ohlige by imparting thedy expericace. CNNCINNATUS.

## Sowing Plaster.

To the Editor of Tie Casada Faraer:
Sir,- I see in No. 6 of Tue Canada Fabmara that Vr. John Blesard, of Otonabce, has a quantity of jlaster to sow, and he rould like to know if it can lin done hy a machine. The one you refer to in the Bural New Torker will answer a good purposo, I -lere say, but in case he does not go to the expense of that machine, I recommend to him a way I have seen tried rith good success. It is to take a horse and cart, make a box the width of the cart, and have it about ten inches deep and twenty wile, with four legs, one at each corner, long enough to raise it uearly breast high. The legs should be cut with a slant at the foot, and be longor on one side than the uther, to make it stand level in the cart. Yon can put half a barrel into it at once. With such a rig a man, with the aid of a small boy to drive the horse, can sow from twenty to thirty acres in a day. The sower must stand with his back to the horse, and sow "ith both hands behind the cart, as it moves along. In this way you generally escape all the dust, as you re going from it instead of to it on foot.
Yort Township.
G. W. D.

## The Patch of Thistles.

To the Eilitor of The Camada Faimeis:
Sur,-If a cat has nine lices, I think a Camada thistle has nine cats' lives. With your permission, I will give my plan of killing this inveterate reed:-1. The land mast be in fallow. 2. It must not bo ploughed in the fall but let the inst ploughing take place in June, when the plant is nearly ready to blossom. 3. Plough again in the conrse of ten or twelve days; the sun will be hot enough to kill the most of them by that time. 4. I would not use the harrow, as it would surcly cucourage the thistles, by dragging the roots and dropping them some place where all they want is a good shower to start them into life ugain. 5. Neither would I mov theht before the first ploughing, as I think they die quicker when the top is left on. Lastly, in the hottest weather in July, I rould harrovs, and harrow again as often as I thought Gi before the third and last ploughing. There can be only one objection raised to the above mode of procecding, viz. : heary clay land will be hard at the right time for the first ploughing. The pasture of the field, both in fall and spring, will amply compensate for the trouble, and I can assure Mr. G. W. D., of York Township, that I killed as bad a patch of thistles on my farm, in 1862, by the above process as thisties on my arm, in 1862, by the above pro
ever he killed by six ploughings of his land.

JOAN COLGAN.
Tecumseth, South Simcoe.

## Rape or Colza.

Tus plant which belongs to the crudifere, or cabbage tribe, has been brought into notice, within a few yeirs past, by the high feeders of stock in England ; more prominently perhaps by Mr. Horsfall, whose essays have becen extensively published in this country.
Mr. Levi Bartlett, of Warner, N. H., has cultivated this plant for six seasons, and agrees with Xr. Horsfall, "that as yet I fonnd no green crop equal to the rape for feeding cows in August and September." IIe publishes the serults of his cxperiments in the Boston Cultivator. In the spring of 1854, he recelved the seed irom the Patent Once. In consequence of a severe drought that scason, and of the plants becoming infested-with . Hice, the crop was a fallore. Mr. Bartlett $88 y$ :

The next ycar (1855) early in June, I manured a smooth piece of. grecasward, and turned over flat, and rolled it, then barrowed to a fine tilth, and sowed with a great variety of turnip, cabbage and canlifower sceds, as also, a portion of the land with rape seed. All of the difierent varieties came up well and grew finely, nonc of them suffering injury from thy, lice, Worm, bug, or "other creature" through the whole season. In July commenced thinning the plants (and
fed thicm to my cows, morning and erening) till the plants areragea not far from two feet cach way. This hrought it up to sixty-five days from the time the land was plowed. In order to ascertain the nmount per acre at thet time, I cut at the surface or the gronnd coery other plant on two square rods,
being a fair everage of the plot of ground. The being a lair evorage of the plot of ground. The and the heapiest nino and a quarter poonds, the whole nǘmbéráveragíng a litle over five and a half pounds
per plant. There were fifty-six plants per square rod. Dut to be sure of not orer-stating, I will call it fify plants per square rod, which gires just trentytwo tons, (of 2000 lbs . per ton) per acre of the choicest kind of green food for milch cows, in less plowsed.

That season, here, was very wet and cool, perhaps much resembiling the climate of England, wheh is much mure fat orable to the cabibage and turnop tribe of plants, than our usually bot and dry summers.
The middle of June is early enongh to sow the seed, which should be sown on well manured and prepared land the same for'Swedish turnips, or cabbage, in drills, thirty inches distant, and the plants thinned to about the same distance. The young plants, like those of cablbage, can be safely transplanted. I have only falled one year in six in getting a good crop of this plant, but still, should not advise any one to depend wholly upon it for green feel for corss, during our usually dry months of Allgust and September. Last Spring, I sent to a friend in Boston, to procare me some rape seed. He called at the fourth seed store before he could obtain any: at this he found some, it being kept for the feeding of cage birils. The seedman kindly sent me a dew ounces, and it has proved as good in erery respect, as that received from the Patent Office, several years ago. It cannot be grown here at the North for seed to manufacture oil from-it being a biennial plant, it will not withstand our cold winters, though, doubtless, some of the plants might be stored in a cellar and kept through the winter, and seed grown from them as is done from the cablonge and turnip.-N. E. Farmer.

## Table of Quantities.

The following statistics gathered from reliable sources, and rerifted by some experience, are of course familiar to all practical men, but nevertheless may be uscful to many readers:-
fany seeds hequined for as ache.
Wheat $1 \frac{1}{3}$ to 2 bushels; R5s $1 \frac{1}{2}$ bushels; Oats 3 bushels; Barley 2 bushels; Peas 2 to 3 bushels White Beans $1 \frac{1}{2}$ bushels ; Buckwheat $\frac{1}{}$ bushel ; Corn (broad cast) 4 bushels, do in drill, 2 to 3 bushels, do in hills 6 to 9 quarts; Potatoes 8 to 15 bushels Beets 3 pounds; Carrots 2 pounds; Spedish Turnips pound; Clover (mbite) 4 quarts; Clover (Red) pound ; Clover (mbite) ${ }^{4}$ quarts; Clover (Red)
quarts ; Timothy 6 quarts, Mixed Lama Grass 1 to 2 bushels,

QLastities of garden seed to plaits.
Asparagns, 1 ounce produces 1000 plants; Bean, quart will plant 125 fect of row; Bect, 1 ounce sows 140 fect of row ; Brocoli, 1 ounce gives 3000 plants Brussels sprouts, Cabbage, and Caulifiower, the same as Brocoli; Carrot, 4 pounds to an acre, 1 ounce sows 140 feet of row; Celery, 1 ounce gives 8000 plants ; Cucumber, 1 ounce plants 150 hills; Lettuce 1 ounce gives 7000 plants; Uelons, 1 ounce plants 100 hills; Onion, from 4 to 5 pounds to an acre, 1 ounce sows 180 feet of row ; Parsley, 1 ounce sows 200 feet of row; Peppers, 1 ounce gives 2000 plants; Peas, 1 quart of the smaller sorts sows 120 fect of row, the larger 100 feet ; Radish 1 ounce sows 100 fect of row; Spinnage, I ounce sows 180 feet of row; Squash, 1 ounce sows 70 hills; Tomato, 1 ounce gives 2000 plants; Turnip, it pounds to an acre.
W. S.

Woburn.

## Experience in Growing Flax.

Jno. Anderson, of Henry county, lll., writes us as follows:-As the season for sowing lax is near at hand, and many farmers are no doubt debating in their own minds the propricty of engaging in this new enterprise, I will give my experience for their
Last spring I obtained 60 lbs. of good clean flaxseed, preparcd by, good deep ploughing a little over two acses of tolerably dry, though flat prairic, harrowed and rolled several times, until the surface became perfectly finc and smooth. I then somed my seed and gave it a light brushing. I cut it with a machine, threw it off in gavils and let it lic until dry. I then thresh it by horses tramping orer it, on the barn floor. I cleaned up from this one bushel of sowing, thirty.five bushels and forty-nine pounds of good clean secd. I had about tro cons of the straw. which after threahing I hauled ont and spread over the newly-mown meadow, and after beiog properls dew-rolted I collected together and sold for cight dollars yer ton to Yr. Thomas, an enterpriaing gentleman who is buying large quantities for a Chicago to clinn it,

## Flax-Growing

A lasden proprictor and agriculturist of akill and xperiunce in Scotland writes us as follors.-
" Jranted to tell yoll about my successin fiax-groning this season, which I hope miny be an inducement for farmers to begin to grow it as a crop that will remunerate them much better than wheat, or indeed any crop at the present prices, and should we bare a Continintal war, of which there seems to be every prosrinental war, of which there seems to be every pros-
pect, we must be shut off from any lint or linseed pect, we must be shut off from any lint or hasecd-
from the Baltic. Dandee will be brought to a standstill, like Manchester, for want of the rave material. We send ont seren millions, I believe, chiefly in gold, fur these articles, all which we might keep at bome, as there are thousands of acres that will yield good crops of flax. I sowed one quarter of an acre of good land worth $£ 3$ an acre, and the produce was cleven bushels of seed. putting it at the lowest price that linsced can tow be got-riz-, 103 .-an acre of secd alone would be worth $£ 22$. The seed is beautiful, much better than nny forejgn seed I could get, and I have all the straw, which I intend to dress as soon as the weather permits; but it ought to be worth, deducting all expenses, from $£ 12$ to $£ 14$ anacre. The seed I sowed cost 18s. per busbel."-Scoltish Farmer.
Flax Cllitivation in Irrland.-The movement designed to promote the extension of flax cultivation and the establishment of manufactures in the south of Ireland is being vigorously prosecuted-landed proprictors, merchants, and others uniting in giving effect to a scheme which will unquestionably benefit all classes. Efforts are making to establish a Flax and Linen Company in Cork, under the Limited Liability Act, with a capital of $£ 60,000$, divided into shares of 10 each, in order to bring it within the reach of all classes of capitalists; and the promoters state only half the above sum will be required to be paid up to afford sufficient means to crect the requisite buildings and machinery and to purchase raw material to keep 5,000 spindles at work. Other infuential towns in Xunster are also moving in the matter, and idle buildings of ample size for factories and with every facility for manufacturing purposes, are pointed out as being easily convertible into spinning or weaving establishments.-Irish Farmers' Gazette.
On Sowivo Serds.-Seeds should be intrusted to the ground in dry weather, though it is of great moment that they should be visited soon after with gentle showers. The dryness at the time of 60 wing is essential to enable the operator to keep the ground open and porous on the top; for by trampling and raking it while wet, the seeds prould be shut up, as it were, n a prison, and would not germinate at all readily. The advantage of subsequent rains is to soften and swell the different parts of the seeds, burst its integument, and dasist in developing its vegetative powers. It is remarkable that seeds which have to lie a long time in the ground before the occurrence of congenial wheather, never produce such fine or healthy plants is those which develop themselves immediately under avouring infloences. And this fact should teach the cultivator to calculate as accurately as he can the state of the weather which will follow his sowings, and eren to put of any gowing which may be deemed necessary at a particular time until a prospect of suitable weather arrives.-Scottish Farmer.

Cclitre of the Mangold Wcrtzel-This croplike the carrot requires decp cultore, and if the field for it has not been recently subsoiled it should now be done and the ground thoroughly, pulverized. In arder to get the greatest yield sow about the midule of yay in drills two and a half feet apart, and cover according to the textare of the soin the average depth
being about one inch; thin the plants to twelve or fourteen inches. Good crops are fiequently raised sown a month later. A dressing of six or eight handred pounds of salt is recomniended in addition to other manures.
On all farms where the Mangold Wurtzel is grown, there should be a sufficiency of Swedes and other tarnips raised for the catle during the early part of the winter. Mangolds are not suited for carly use, as they contain a peculiar acrid principle when freshly taken out of the ground, which exercises an injurious cffect on cattle, producing a very laxative state of the bowels; but which, in the course of a month or two, entirely disappears, or undergoes such a change as renders them harmless.
The best way is to feed the soft turnips first, and the Sredes next, which should last till January, when the Jangolds will be ready for use. The change from turnips sunuid begradual with all animale, to prevent their pruducing the laxative effects alladed to.-Ohio Farmer.

Jowner.-We think our farmers will uo well to pivo more attention to raising millet. It is one of the best and most profitable hay.cropa. We have. If cut when in full bloom, it is considered by good judges to be
equal to the best timotify. while it yields a much heavier crop on the same land. If the seed ve allowed to ripen, the quality of the liay is not quite as good, and it of course is more exhausting to the soil. But in the latter case the hay is still of gom gunlity and will be relighed by all kinds of stock.
An excellent plan is, to plough the ground, and manure well, sow about the usual the for the spring grains, and cut nobout the middle of Jane. As soot as the crop is off, plongh, manare. and sow as before The second crop will hare ample time to ripen its seed before the heary frosts in the fall. By pursuing this plan, two heary crops can be cahea from the same land, and seed for next season secured. Two cuttings will give on good corn land. at least four tons per aere of good hay. One peek of seed per acre will do. bat if donble the quantity be used, the hay will be liner, and therefore preferable for ordimary feeding. If sown thick, weeds stand no chance at alt -the millet entirely covering and monopolizing the ground.
Forage crops will be worth looking after this year, and we advise our farmer readers to try some millet It is casily ralsed, and is most certainly a chrop crop for feeding. Try a patch of it.-Plocman.
(tf a gubscriber living in Belvidere, Boone Co.. Illinois, writen: -1 nm anxious to see dissertations on tax culture, as I think it is becoming an important staple. With the improvements which are and whl be made in machinery, l hope to enjoy the larinry of a real linen shirt some day, nid periapa a set of tow bags to remind me of (if nothing mom) the old tushoned days of domestic tranquilitr
My crop of flax last jear consisted of three and one-half acres. My expenses were-

## Far seed.

Hanghlug and son lag.........
Thad 10 Tutuelat coned pe
$\begin{array}{r}4900 \\ 800 \\ \hline 8\end{array}$

14:00
Invo about $\begin{aligned} & \text { tons straw, may } \$ 10\end{aligned}$
50 ${ }^{20}$


1 have never realized that amount from whent, corn. or onts in proportion. Expect to do much better this year both in seed and atraw, by using land better adapted to its growth and in seeding-mrairie Hurmer.

Manabiment of Pastiras.- At a late meetlog of the Wapping (Mass.) Farmer's Club, the neglect of home pastures was the subject of discussion. One thought no liraneh of farming was neglected so much as pasturing, and no part of the farm sould produce greater prollt. Farmers began to realize the impore ance of this, and great improvements had been made within a fer years. He knew of a pasture which ten years ago, was ralued at $\$ 10$ per acre, but bs cutting the brush, and sowing plaster and aslies, it in now Falued at $\$ 40$ per ncre. Anotber. pasture has been greatly improved by the application of ten busbela of ashes, eight bushols hen manure, and seren bundred pounds of plaster, thoroughly mixed, and sowed in Mny, on 14 acres, and the panture would keep twice the number of cows it would before this method was adopted. It seems to be the general opinion that plaster was the principle renovator, but some thought the beneficial effects of plaster depended very much upon the soil. One member had applied it to a light stony soil with but little benofit, but on clay soll its affects were lasting. One stated an instance of plaster being sown on a clay slde-hill, and the effect was perceptible at quite a distance for several years. -Rural American.

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## Suburban Villa or Farm House.

Tue accompanying sketch is a study for a simple suburban or farm house of a moderate size, and can be built with either brick, wood or stone. without interfering with the design.
The best situation for a howat of this style is an eleva tion with a southernaspect, but for conniry houses the dealgn re quires to be adapted to the location, as it is impractic able to make the natural scenery subservient to the architectural composition: butin all cases particular attention should be paid. in selecting a cheerful airy situa tion, and onecapable of perfect drainage. The ground plan of the house is irregular having a ball 7 feet
wide running through the centr connecting with $\dagger$ the kitchen, and having a door under the stair-landing leading to the back verandah. On the left of this hall is a large pantry 7 ft . $\times 10 \mathrm{ft}$., situated between the dining-room and kitchen, and connecting with the kitchen by a small door, so that articles can be brought from the kitchen to the dining-room without baving to come through the hall. The dining-room
on the same side is a commodious room 14 feat wide by 19 feet long, having a fire-place in the centre of one side, with the projection to the exterior, thas leaving more space in the room, and adding effect to the exterior. The window in the front will be a case ment opening out on the verandah. On the righ.
house, which could be heated by using the flues of the main building. A green-house thus placed would add much to the beauty and comfort of the house. The kitchen at the rear is suficiently large for the size of the house, viz., 17 feet wide by 18 feet long. It has a stair-way leading to the ecrvants' rooms above, which can also be used for a back stairs to the main building, as the Innding of the main sthira wll be on a level with theserrants rooms, whth a door connecting with them. At the end of the kitchen is: pantry and scullery with door entering the wood shed The cellara will be un der the kit chen, \&c.
In tho main building are five good sized airy bed rooms, the ceiling in the centre being 10 ft . high, and the sides invo feet six. There will be no dor mer win.
side of the hall is a parlour, or "library," and draw-ing-room, projecting 7 feet from the dining-re $3 m$ wall, and having a handsome bay window, with the ceiling the same height as the room celling, viz., 11.0 feet. The two rooms can be thrown into one by opening the rliding doors, thus getting a clear length of 37 feet. The windows on the right-band side of these rooms are intended to open into a proposed green-
dows, as there are gables carrled up with good-alized windows in them.
For cheapness; this house conld be erected of red or white brick, with 11-Inch hollow wallis standing on stone foundations 16 -inch_thick, and tho stone work carried 12 inches above the ground level, hammerdressed and neatly pointed. Care should be taken to solect the bricks of a uniform colour for the exterlor,


## Cutomology.

How to Destroy Cory Dieevils.-Tho Courrier de la Lrome gives an account of a new method for destroying weevils, all tho plang hitherto adopted for that purpose having proved fruitless. Tho calculation is that in France one-tenth of the crops of corn is des. troyed by those insects, the migchief being caused by them-not when they have attaincd their full growth, for then thoy do not eat the grain-lout wheu in a state of larra. Tho new destructiro process consists in altracting the females to deposit tueir eggs in the same spot, instead of on the grains of corn ; and a sort of hire of the eggs is so formed which can be destroyed at pleasure, with all the larra they contain The mode of procceding consists in placing at certain distances in the corn loft pieces of fermented dough haring a semi 8 pherical form and partly hollow. In the course of a fev hours those peices may be removed, when they will be found literally covered with thoze insects; and if the dough be examined with a microscope, a rast number of eggs will be seen on them. Fivo sous worth of this will suffice to destroy all the larvoin a place containg 110 quintals (224tibs. cach) of corn.

Ants asd tueir Cows.-The cuuning ants beep cows in their stables. Almost overy nathill, belonging to one variety, has a bectle in it, who lives, rears 3 family, and dices among then, a welcome and honoured companion. When the ants meet him they stroke and caress him with their antenna; in return le offors them a sweot liquid that oozes out under bis wings, and of which the little topers aro passionately fond. So great is their attachment to the odd confectioner that they soize him, in times of danger, and carry him oft to a place of safety; the conquerors of an invaded nation spare the sweet bectle, and what is periaps moro surprising, bis maggot"and his chrysalis, though themselves utterly uselces, are as safe anong the risc hosts is if they also possexsed the luscious honey. Other ants, again, keep countless aphides, that sit on the tonder greon leaves of juicy plants, as on green pesciors, and suck 2way so lusilily that their delicate llttle bodles swell like the udders of cows on rich spilng pasture. At that searon the ants hare to feed
their soung with mure delicate food than their orn they stroke and caress their tiny milch cows, gather the nutritious liquid that pours forth under their sagacious treatment, and carry it drop by drop, to their nurseries:

Ihow to divit tilt. Motio. -Tbe following has more real virtuc in it than any of the so-called scare aviays of the noth, which has yet mit our eje. Unly be careful that there are no moths in furs when put away, and it vill he impossible for them to get in if the necessary care is tuken. But to the advice :
Most of vor masects are wery hardy, caring litte for hind or weather, and whill neser die of aromatic pain." We once packed some sual! skins in the centre of a cask of tobacco leaves and stems, lut the miller went there and deposited her eggs and the furs were rmaned. This shons that they are frequently constructed with the idea that the rather pleasand odour of cedar is sufficiently disagrecalle to the muth to keep ber away from articles of clothing deposited there. This is a ruistahe. The strougest instinet prompts the nuller to sech the means of perpetuating its kind, and no trifing impediment wall prevent it But the preservation of furs, or articles of clothing is perfectly simple, cheap and cass. Shake them wetl and tic them up in a cotton or linen bag, so that the miller cannot possibly enter, and the articles will not be injured, though the bag is hung in a roodhouse or garret. This is cheaper than to build cedar closets, and better than to fill the bed clothes and garments with the sickening odour of camphor, tobacco, or any other drug.

## The Wire-Worm.

To the Eutior of Taz Casidan Famer:
Sin,-Tbe importance of a good growth of turnips, for home consumption, has been often brought before the notice of farmers, and especially of those tho make a practice of rearing stock. Now, of all the insects which infest roots, Fly excepted, the "WireForm" is the most destructire. This worm is the larve of the "Click Beetle," helonging to the species Coleop-
tra it in gencrally huurn as the ". Wiro-worm." The beetle lays its eggs, from 20 to 50 , in the soil. From these rggs are hatched our enemies, small white worms, with ringed bodies. They hare 7 legs; 6 of these are feelers, the seventh a proleg This last is situatel unler tho tail of its loody, and serves to push him alung whilst feeding under ground. At certain intervals, they change their skins, each tine throwing off the old covering, to make may for a larger, and thus constantly increasing in size. They are supposed to live as larva fur 1 gears. Abuat July the grub makes a hollon for itself in the ground, and there lies in the form of "Pupa" or "Chrysalis," until it hecomes transformed into the perfect "Click Beetle", it then transfers its rastiges frum the bulb to the leaf. Nun, jou will alw arsfind the " Wire-rorm"in rotung turnips whether he rots the furmips or goes to the rotting turnips, is an undeciled point. It is against the larra that we must wage war. Flooding the gelds has been trind but with no surcess, water seeming not to affect the insect ; drainage is a great preventative; moles are their natural enemies. Common weeds, grasses, and clovers, are attacked by the joung worm, but when the turnips are in the ground, they forsake all for this their farourite food. The use of superphosphates, lime and soot, is very beneficial ; but the phosphates, lime and soot, is very beneficial ; but the small birds. When you eee birds (especially Rooks in England, horering over your turnips, and constantly diving their beaks into the bulb, depend upon it, they are in quest of the worm.
Before concluding, I would mention, that the Wireworm often commits'great rarages amongat the roots of wheat and harleg. The remedy, in this case ls simple: cut your stubble short. It exposes the insect not-only to the attacks of its enemies, small birds, but also to the infuence of the atmosphere. Long stubble docs not as some suppose, protect the clover, but prevents it from gaining that strength which is necessary to stand "killing seasons." Cross ploughing, or roughing, also greatly oxposea this insect

AN OLD-COUNTRYMAN.

Glandford, April 22. 1864.


## Ght Bredut and Grazicr.

## Tho Royal Dublin Society.

Tus: Spring Show of this vencrable Society, which has been in existence for upwards of a century and a quarter, appeare to hare been more than ordinarily su.cessful. In the catlle sections there were 323 entries, 171 of which were Shorthorns, a class that contained many superior animals. The entry of draught horses was rery deficient it rould appear that the brecding of horses of erery description, which has so lung formed a toost important depart ment of Irish rural economy, has of late gears very risibly declined. The young bulls of the Durham and other breeds, comprising many excellently l, ied animals, were in rather low condition, a fault certainly on the right side. These are exhibited more with a view to the effecting of sales than the obtaining of prizes; and in this way the lublin Shows hare served, more than ansthing else, to secure the distribution of well-bred animals through the country. The miscellancons breeds compriaed Sentel-polled IIerefordes, Downs. Kerries, Ayrshires and Alderneys; in all which there were animals of decidedly superior quality. In fat cattle, a Mereford carried off the palm, and a Short-horn came second.
The show of sheep was not very extensire, but it is described as being very select. Among long woolled sheep the Leicesters seem to have taken the precedence, Cotswolds coming next. The Shropshires comprised nany fine specimens. The Cheriots were fer in number, aithough there are several extensive localities in Ireland well suited to this esteemed breed. An important feature of this meeting was the realing and discussing of a very claborate paper, based on experiments by the well-hnown English agriculturist and chemist, Mr. J. B. Lawes, on "The Science of Fueding, as applied to the Production of Meat and Manure, " a synupsis of which we may prepare for our readers in a future number.
Since writing the abute, se hase received reports of the Irish National Horse show, which appears hardly to have come up to public expectation. There were 370 borecs on exhibition, exclusively blood and half breedt heary draughthorses nut being admissible. Of course, there wers several really good animals among this large number, but the grand result clearly shorted that there is too much reason for the common belief that Irish horses, both in quality and number, have of late years deteriorated, especially for hunting and cavalry purposes. The Royal Agricultural Suciety of Ireland has been active of late in cullecting facts and devising remedies in relation to this important matter; and with this view the recent show, exclusively confined to blood, carriage and saddle horses, was projected; the tendencs of which cannot prove otherwise than beneflial. We think that something more is required here in Canada whth regard to horses, whose improvement, on the whole, has not kept pace of late gears with that of our other domesticated animals. More pure bloud is among the prineipal desiderata.
zes At the Cremorne Dog Show, last munth, 625 aulmals were exhibited, and £ili $^{\prime \prime}$ sterlong distributed in prizes. The Field, for April 23, contains a fine cut of the dogs that took prizes in the Setter, Mastiff, Pointer and Skye-terrier departmenta

## Donkeys vs, Mules,

To the Enitor of Tuk Cayada Farmer
Sin,-"I T" wauts to knor about duakeys. Well. perhaps it is from.sympalbs, but I loknow sonue thing aho it them. In Ireland they are ucs u-aful. being chichy asw by the pows fus carrging loats in panniere In this way they can trasel gict the logs and muddy" boreens," Anglice lanes, of that country far hetter than horses could. A goud jach can be bought for about 20 or 25 shilliugs, at least that used to bre about the figure They cost nothing to beep there, but I suppose bere they should be fed in winter. As to mules, I do not think that their jetroduction would answer any good purpose. I suppose " N. T." knows that they do not propagate, therefore, in the first instance the young mule costs as much as a genuine foal, the loss of the time of the mare belog the same. At best, they are only like poor, obstinate, vicious horses, not so hardy as the ass, and of course much more expensire to keep. Being wonderfully sure-footed tbey are of use in rough mountainous countries, but 1 do not thiak that they are required in Canada. I have had no experience of what I beliese is improperly called a jennet, i, e. the produer of a she ass and a horie; but I have heard that they are far cuprior to the mule, and of course the dam being the least valuable animal, they are not expensive to breed. There are, however, I belleve some dimentites in the was, arising from prejudice on the part of the horse, that sagacious animal not yet having, except in rare instances, shewn himself a convert to the migcegenation doctrine.
I hope "N. T." will take my alrice. and go in for donkeys in preference to mules.
F. II. I.s.

Saugeen, Co. Brace.
SB.-It should be remembered that the milk of the ass is considered extremely nutritious, and of great service to neah or consumptive people. Mang persons at home turn the she neser to great account in this way.

## Mottle and White-faced Herefords.

Tu the Ealitur of Taz, Casada Farsiar:
str,-In No. $\bar{i}$ of Tus Canada Farmer, you give Mr. Benj. Tombkins credit for improving the breed of Hereford cattle by a cross with two cors purchased at a Fair in Wales. In regard to the cross, you are correct; I am arare that they are a cross breed. I have heard that his son adrised him to make the cross as stated. Excuse me for saying that you are in error in stating that the present breed of Hereford cattle so highly appreciated, originated from the cross made by Mr. Tombkins.
Mr. Samuel Tully, of Muntington. near Hereford. and Mr. Benjanin Tombkins, of Wellington Court, in the same county, were formerly the two principal lireceldre in the county. Mr. Tombkins, as ubove, statipl made a cross in lis stock, in consequence of which the Tombkins breed bave mostly mottle face. Mr. Tully continued to keep the blood of his stock perfectly pure, which is the reason that the Tully breed of white-faces ore in such high repute The two breds are described in the County of Hereford
as the Tombkins breed and the Tully breed. The as the Tombkins breed and the Tully breed. The
mottle-faces are not patronized at the Agricultural Exhibitions of the present day, when in competition with the white-faces.
Being related to both Mr. Tully and Mr. Tombkins, 1 considered you would excuse the liberty I have taken in sending yous my opimon in regard to the pedigree of the Hereford cattle.

A Stbscriaer 10 "Tue Cababa Farmer.
Kingston, April 23, 1864.
Tue farmoways. - We are indebted to Mr. Thomas McCrae, of Guelph, for an account of the Annual Show of the Galloway Agricultural Society, which took place at Castle Douglas, on the 21st March last. This was the most successful show ever beld under the auspices of the society, and evinced a growing interest in the Galloway breed of cattle. The first prize bull is described as a splendid animal, four years old, 7 feet 8 inches in girth, massive fore quarters; decp well barreled ribs,square hind yuarters, short legs, long and silky hair. After the prizes had been awarded, the annual sale took place, when 54 animala were sold at an average price of over sixteen guineas-the highest figure ever reached for this breed. The Galloways are evidently looking up in their native haunte.

To the Eilitar of Tut Cinsus Farner:
Str, - In ansreer to the inquiry made in your issue of the 15 th, if it is proatable to raise mules for farsi work, I would say get, if bred from a good jach. For, 1at. Mules will wurk at two years olle. 2nit. They will get fat on feed that horees will harily eat. 3rd. A great many of them will eat thistles. Ath. Thes are never banlhy. Sth. They never elig, bth. They can work more bours per day than horses. Ith. They are easier to breed than colls; mares can work up to the time of fouling, with but little inconvenience, as the foal is 80 much smaller. 8th. They lire longer than horses. A good jack can be had in London. England, for about threc sovereigns.

Co. York, April 20, 1864.

## Large Yearling Durham

To the Elitor of Tue: Cisada Farner.
Sur,-I hare just taken the arst prize at the Bayham Cattle Fair on a Durham bull, which was calren on the 22nd April, last year, and on the 20th April. this rear. it was weighed before several partien and fnund to br not lbe weight The bull was tro. alags less than a year old

JOHN PEFFET.
Midaleton, May 2, 18G4.
Thi: Late: Mr. Lawrom's MEid.-The Shorthorn herd of the late Mr. Lawford, of Southeott, near Leighton Buzzard, was disposed of by auction on the 14th ult. The Mark Lane Express states that:-•It was more of a milking herd, and in nico saleablo I trim, but not brought to the post.' Still there was a good average of $£ 38 \mathrm{Cs}$. Cd. for serenty-eight females. and £64 18s. 2d. for eleren bulls, giving a grand total of $£ 3,703$ 7s., and an average of 241 128." The highest figures reached were 300 gnineas fou a buil and 240 guinman for a cow ne lot was bought for Canada.

Fresk of Nitcrb:- - correspondent of the Maine Furmer communicates the following to that paper :"Sylvanus Damon, of Buckfield, has a two-years old beifer which dropped a calf April 2nd, which was alive and well, and perfect in every respect, excepl being entirely without legs or signs of any. The supposed cause is that the heifer, alout eight months previous, was much frightened at a dog rolling over on the ground. The body, in the act of rolling, being only visible to her, conslituted a mental impression sufficiently strong to produce the result."
zat Gus: juur swine charcoal. Its nutritive qualitiey are sucth, that they subsist on it for reeks together without other food. Geese, when confined so as to deprive them of motion, and fattened on three grains of com per day, and as much charcoal ds they can devour, have become fat in eight days. Hogs cat it roraciously after a littlo time, and are never sick while thoy have a good supply. It should be always kept in the sty, and fed to the inmates regularly, like all other food.
Bolling Food for IIoos.-At a recent meeting of the Farmers' Club, Prof. Japes made the following remarks in regard to boiligg food for hogs:-"The proof of the saving of food by boiling bas been given here, and, as it can be stated in very few words, we may as well have it. Mr. Mason was a watchrogter in Camden, N.J., and among other fancies he l!ked to keep hogs. He has his hog-pen just back of his shop so that he could sit at his window and watch his hoge. Erery spring he bought some pigs and fed them through the sceson. Just opposite to Mr. Mason was the store of Mr Van Arsdale, and every pound of food that Mr. Mrason gave to his pigs he bought at this store. At the end of six months he got bla bill from Mr. Van Arsiale, and be always slaughtered his hogs at that time, so that be knew exactly how much his pork cost. For several years it figured up about 13 cents per pound. At length some one advised him to boil his corn. He accordingly gota large kettle and cooked all the food which he fed to his pigs. Then his pork cost bim $4 \frac{1}{2}$ cents per pound ' We also had the experience of Mr. Camphell, which was about the same as Mr. Mason's. Henry Eisforth made some exteasive experiments in fie same thing. and his statement is that 30 pounds of raw corn make as much pork as 19 pounds of bolled corn."

Fisedngo Horses Cueapler- $\Lambda$ correspondeat of the Genesce Farmer says be does not feed bis borses eilbor graiu or bay. He keeps five horees, and gires then a busbel of mill.feed twice a day. with cul siram und occasionally a cenrot or two. The inill-feed costs him 25 cents a bushel, so that besides the straw his horses cost him only 10 cents a day. If fed hay alone bry would eat at least 30 lbs. each per day, which at $\$ 15$ per ton, is worth $22 \frac{1}{2}$ conts. He pita straw into the meks and lets them pick out what they will, and uses what they leare to litter them with. The cows pick orer the litter, and in this way he maunges o get out all the nutriment there is in the etraw.
Casadias Horses.- I see an inquiry for farm horsea in the last number of your paper. With regard to the merits of the Vermont and Conestogn, I know but ery little, but of the Canadian I can speak from experience. They are the best class of farm horses in the country, and admirably adapted to work on clay land. They are casily kept. Their average height is 14 hands-their weight is from 800 to 1,000 pounds. There are a great many of them owned in this country, but it is a wor place for any one to come to purchase, as anythiag in the shape of a horse commands a high price, and farmers who wish to buy cenerally go into St. Lawrence county or Canada In St. Lawrence Co. they can be purchased for $\$ 150$ to $\$ 200$ per pair. 4 good stallion of that breed is worth $\$ 300$. As to colour, they can be found of all hades, though black and sorrel seem to prelominate.
Lewis Cocity Fanser, in Country Genlleman.
Rele for fatimitino the Ayolist of Fhid.-Carefil exporimonts show that nearly all domeatic ammals consume an amount of food about in proportion otheir weight. A large horse or cow eats more than a small one. An elephant weighs four or fre times as much as a horse, and consunics four or five times as much food. If a cow has the weight of fire sheep she will eat flve times the quantity of food. There are, of course, some variations or exceptions, and ndividuals differ, but this is a falr general rule This quantity is usually from two and a-half to threc per cent, when the food is hay, with a smull propor ion of grain. A cow digests more thoroughly than a horse, and requires only about two and a-half per cent. ; a horse three per cent. A cow weighing elght hundred pounds would therefore need ahout two and a-half times eight, or twenty pounds of hay a day. A horse weighing one thousand pounds would require thirty pounds. One and a-balf per cent. will keep a cow alive or on her fect ; but to he properly nourished so as to grow or increase in flesh, or give milk, she must have nearly double. The water used is not included, nor does the rule apply to green food.-Annual Reyister.
A Pig Storr.-Walton's Jourmul is responsible for the following pig story:
"A young man commenced bouse-keeping as young marricd pcople used to do, with a cow to supply milk and a pig destined for a winter's supply of pork. He look good care of the animals, feeding the cow liber ally with hay, and the pig with a mash of bran, sce. adding straw for the pig's bed. Soon be observed that the straw regularly and unaccountably disap. peared from the pig-pen-in fact so much so, that be ad to replenish $t$ daily. Finally he determined to detect the thicf, and concealed himself for that purpose, after the pig had been furnished with clean straw: peedily came the denouement. Piggy seized a moutbful of the straw, stirred it in the mash till it had become well coated, and then planting his fore feet upon the top board of the pen, be tempted the cow with the morsel, she yiclding, nothing loth, uatil pig and cow had thus disposed of all the straw. Now send us a better pig story if you can, and litit be true-as this is. That pig had some sense. Perhaps indeed he was a wag. Undoubtedly he wagged bis tail in sympathy with the well-pleased cow. For the credit of the cow we rdd, that on the death of pig she mourned for it as she would have done for her calf
a Cow Killed by a Cat.-On Thursday last a corr owned by Mr. Marsball Morrison, of Port Dal. housie, Canada, was quietly taking her noon sissta on the street near his residence, "chewing the cud of sweet and bitter fancy," when some boys who were playing near by conceived the idea of having some fun by tying a cat to the animal's udder, and catching a cat, they proceeded to put their scheme into execution. As soon as the cat was fastened the boys left, and the cat endeavourcd to follow their examplo. when the tension on her tail caused her to scratch the cow, which immediately jumped up and commenced running and bellowing at a fearful rate, the cat all the time scratching and biting the udder and legs and this continucd until the cow fell down with exhanation and cut in a most fearful manner, when the cit was liberated. The cont died the next day Priday: The owner threatoins to sue the parents of the boys for damages, 28 he considors it unjust tha milschicvous pranks of the lads.

## Staty fixsbuadry.

More about the Buokwheat Controversy.
This, Ikural Intellyencer, an agricultural journat published at Indianopolis, Ind., inserts the letter of Mr. Ferril which appeared in our fifth numberand comments on it as follows :
", If Mr. Ferril had prosecuted his investigations a atep further, he might hare solved the vexed question which seems to have troubled our Canadian neigh bours so much. Plants of the botanical order Poly gonaceas are often poisonous, because they all contain oxalic acid in greater or less quautities, elther free, or in combination rith lime. If the acid is uncombined the plants are poisonous-if in combination with lime or potash they are not injurious. Lime your land well, anu your buckwheat, both stran and grain, will be wholesome food for man and least. If gon: land he deficient in alkalies your buckwheat will be ungafe food.
Many farmers sow luekwheat on their poorest land, because they are sure of a crop. They put it in land that is entirely exbausted, fespecialiy of lime or ashes,
and because it produces a crop cheap ther consider it and because it produces a crop cheap they consider it clear gain. But where persons and cattle eating of the crop become sick, and some die, it proves the old adage true of " btopping the spigot and letting out the bung hole." There is no economy in it. Better cnltivate four land on the principle that you owe it something, and gire it what is its due,-a dressing of manure every year.

## Sheep Poisoned by Eating Laurel Leaves.

Sueer that have eateu laurel leares will dic, unless the poisonous effects of these leares upon them are speedily counteracted and neutralized. But we very luckily have a good many cures for this poison that destroys 80 nuny sheep for drovers and others in ou moulutain regions. Thus, for example a strong tea pade of the bark and leaves of the Sweet Fern-a plant that grows wherever yon find laurel-is a good and alunost certuin cure, if given to the poisoned sheep in due time. So a tea made of the bark and caves of the l'oison Ivy, swectened with molasses will effect a speedy cure. So a handful of fine salt or a corresponding amount of salt water, drank by each sheep or poured down its throat, is also an unfailing cure of this poison. So a quarter of a pound of melted lard and a hulf a gill of whiskey, put into a half a pint of sweet milk, and well mixed, and poured down the sheep's throat modetately warm will also cure it. So half a teacupful of raw white beaus, ground fine in a coffec mill and well stirred up in a teacupful of water given to each poisoned sheep, will also cure it. Indeed, a dose of sweet oil or any kind of active purge will answer this purpose. So sheep poisoned by cating St. Johnswort, lobelia, or wild indigo, are also curable by giving them a mixed drink of sweet milk and whiskey.

## Sheep-Shearing Exhibition,

To the Euitor of The Casada Faryer:
Sin,-I notice in the Ayr Obsercer that a rather novel cxhibition is to be held in that village on the 26th instant. It is called a "Sheep-Shearing Exbibi tion," the object being to bring into contact the differ ent breeds of sheep, and tometermine which breed is the most profitable for the Western farmer to raise. Prizes are offered for the heaviest feeces, without distinction of breed, and a sweepstake for the most valuable ¢heep, esumating the carcass and flecce together at current market rates.
As there are in this and the neighbouring townships largo numbers of Leicesters, Cotswolds, Southdowns and Merinos (Spanish and French), there will probably be a keen competition. I notice that the wool is to be washed, "or the usual deduction made." Will some of your correspondents inform me, through your valuable paper, what is the usual deduction on unwaabed wool; also, what is the average difference of price between Leicester, Southdown and Merino wool?

RCSTICLS.
North Dumfries, May 10, 1864.
Notre by Ed. C. F.-The usnal deduction on unwashed wool is one-third.

## Is Buckwheat Injurious?

## To the Elifor of Tue Cansua Farmer:

Sir, - This queatica latcly agitated in your columus should have been (as it probably has been) settled long ago. May not the rough paricles from the de cayed blossoms of the buckwheat cause the sorences about the cars of animals: Is it a fact that buck wheat cakes cause skin lisenses, when caten by man kind: If so, may not the sodin or salaratus. which is daily added to correct the acidity of the buiter, be the real offender? What sags the chemical ciltor of Tu: Filmen"

FAGOPYRUY

## Large Grade Lamb.

Tu the bilitor of The Canada Farmer:
n,--llaving seen in your paper at different times, notices of large sbeep, hogs, \&c., and thinking I have a ram lamb that cannot be beaten, I pould like to see it in your columns also. It is from a very inferior ghade ewe; the ram is also a grade of the Leicenter ured. When it was one day old, I had the curiosity ows. the weght and size of it, which are as fo ons. Weight, lilos.; height, if inches; length of they, 21 inches; girih, 19 inches. sow, if any of the numerous readers of you
would like to l:now who it is.
E. H. CHARITON.

Rose Bank, South Dumfries,
April 23, 1864.

## A Heavy Fleece.

Tu the bilitur of Tiek Casada Farueit
Sir,- I have a buck, a cross betreen Lincoln and Leicester, which was purchased at Kingston some year and a-half since. The rool is of medium quality, and about one foot in length. The fleece clipped this spring, which is the second shearing, after being thoroughly washed, weighed sixteen pounds aad liree ounces. Wishing to get the rery best sheep possible, if any of my farmer friends can heat that I shall like to hear from him.

ELIAS HOOVER
Rainhan, Haldimand Co.,jApril 9;186i
Pnolific Sue:P. - Mr. Jno. Groesbeck, of Bethlehem has three ewes that ${ }^{\circ}$ ropped 10 lambs. All of the little ones are strong and doing well. They are the commo. sheep of the country. Two of the four drop ped by one ewe are being raised by hand.-Country Gentleman.
To mate a Ene Uris ner Lamb.-Our friend J. S Delano, a large sheep proprictor of Mount Vernon, Ohio, Frites ns:-" When you write another book on sheep, please record the following fact. If a ewe dis owns her lamb, rub the band on the latter, or scrape a little slime from it, putit in the ewe's month, san then leave her. She will go instantly to licking the lamb.-Rural New Yorker.
Buttermile for Laxps.-Thomas S. Steele, of Shu shan, Washington Co., N.Y., says he raised two cosset lambslast year en buttermilk-one receiving nothing else from the beginning-the other previously fed four weeks on new sweet milk. The last la nb did not do as woll on the new mill, and became castive two or three times. It tools to buttermilk after a few feedings, and thenceforth grew finely. After learning to eat the latter, it would refuse sweet milk. Both lambe grew up large and strong. Mr. S. has tried the experiment once before with the rame retult. He "would prefer of choice to raise a valuable mothen less lamb on buttermilk than on sweet milk.'
Ccre for Scab in Sueep.-Irish Formers' Gazette gives the following recipe for a wash which it bar- is an effective cure for 8 cab.-" 2025 . White arsente, 2 ozs. corrosive snblimate, 2 ozs. 881 ammoniac, 1 lb . starch, 1 lb . nitre, and 1 quart of spirits of turpentine, mixed in 15 to 20 gallons of tobacco water."
A Cabinet of Wools-The Agricultural Department at Washington is forming a cabinet of wools which is intended to exemplify the effecta, of climate food and treatment. Specimens are detired from al parts of the country, but these specimens should be accompanied with gtatements deucripupe of the locality, the food, the mode of tratment, and the origin of the sheep, and such other matters as may tend to give the wool 8 comparative value.


## Elte Rairy.

## The Cheese Trade with Britain.

We are indubted to Vir Alam Bromn, of Hamitua for the lulloring letter on the cheese trade, adiregeen to that gentlemen by Mr Cbailos Tarler, a Nen York dairy merchant

Sifw lunk Mav lut lut:

## Aldam Broien. Esq.,

Llamilton, 1. IV:
Mr Dear Sir,-I am mich obliged fur the cops $0^{-}$ Tue Casaoa Farmer, in wheb I sate gour beber gu dairy products. I see no reason why butter and cheese should not be mada as well in Canada as the Cuited States. It is only a iew rears ago that all Ohio cheese wes mumb inferior to Yew York State, but since the making in factories bas bcgun in Ohio, there are two dairies there that have sold for a highor price in London than any made in this Stile this srason Cbees-making caabe reduced to a certanty with, the aid of ice or a cold spring of about $+5 \%$. Thert are plenty of cheese-makers fiom about home in this State, whose system is a success, and whose chrese would be ready to ship in about fo ty days from the time of making, in the hottest weather. This is a great advantige sheese has over butter: the latter often spoils if mored in hot weather, to say nothing, of the far greater profit in making cheese. It f : prored that 10 libs. of new milk will make 1lb. o cured cheese, $w$ ich is sellmg here for 17 or 18 cente per lb. in curreney; while white butter is only worti. 49 cents. The mili that will make llb. of butter wil. make sitbs. of cheese. There is a good shipping demand for checse, but none for white butter. It is $17 \frac{1}{2}$ years ago since I landed here. A few diss afte, I brgan to ship cheese, and paid of eents per 16 . fo the best I could Iad in Ociober, when there was, fair stock. There was a duty then of is. per ewt fair stock. There was $\Omega$ duty then of fis. per ewit
sterling, which is not on notr At that time one hath was interior, one quarter furr, and one-guater good Weshipped for a number of gears little short of l vo, vu boxes of 50lbs. each from this country to England improving in quality each sear, until those farmer who could make a choice artiele began to take milk from their neighbours (charging one cent per lb. to. the trouble), making good cheese for them all, ani obtaining two to three cents per lb. for the extry quality: This plan was soon adopted by others hence the great tactory system notr in operation. understand 50 new ones bave started this season The most suatable size fur shipment is about bu to 9 . libe, pressed in hoops 11 inches log lo ancaces. These suit most markets. By far the greater part is landou in Liverpool, and used in Lancasbire and Yorkshire The shipments for the Jear ending Sept. 30.1863 amounted to $\mathbf{0 7 6 , 0 8 1}$ boxes of 50148. each, and fron that time to Aprit 26, 1864, 497,047 buxes, showing an increase of 140,665 boxes over the same time last sear. There is nothing in this market that sells so readily as cheese-tha demand never ceases. It can be shipped all the jear in pieamers, and for sereral monibs in sailing vessels; the voyage mellows and ripens $\mathrm{it}^{2}$ so that the cheese mude here in April is fi for use in England before their own make is ready.
The numerous well ventilated steamers ald this trade much; without them we could not ship in safety in July and the three following months. There art often 12,000 to 20,000 on a steamer in the fall. We are now producing ane cheese which sells for bigher rates than some English made, but improvements are yet to be made to equal Stilton, Cheddar, Cbeshire, Double Gloster, and other funcy brands of English manufacture.
I think there is a great fleld in Canada for improvements in the dairy. Your cows on white clover pas tures and pure water, with cleanliness and sutable buildings near a cold spring, are thangs sou have the knowledge of the factory plan you can soon obtain. You coald also make the best porti from the whey and mesl of pess, oats or barley.

I trust something may be done in this matter. I shall be very glad to ald any of your friends to the best of myability

I am. dear alr yonre iroly,
CHARLES TAYLOR.

Paoking Butter-Suggestions to Country Merchants.

Vens large quantities of butterare recoired werokly n Wes liork, from rountry merchants who hare taken it in hartor for goode Prerhapa it wonll not lon too much to say that the majntity of hutter sold at this port. for home consumption and for shipping comus through these channola. From want of skill or of aro in preparing it for market, the prices usualiy calizel are far jese than might be obtained. It is rery unsatiefactory to prolucers to rond in the pulb. dishel price-lists "butter 23 to 27 cents per lb.." and then hare only 16 to 20 cents offered in goods at the s.ore , and they cannot eredu the statement of the merhant liat he can only get thalfigure for what he sends o the city. lit such is ofien the case, nat for reasons whleh might be obviated, some of which are indiented in the following suggestions:-
It is anjust as $n$ ell as bad policy to pay n uniform price for all butter brought in. a4 is cuatumary with tuany dialers. No doubt it is not pleasant to irll n :lls oreer that his or her butter is worth less than su-me neughbor 4 ; but if the same price be paill for all. it is in effect offering a premum on carelessaces, and unly a sercond rate article need be cepected. It is essential that butter ahould be of uniform quality and color. To this end it should be stored as received. and that of similar character packed together. Most of it will need working over to take out the buttermilh, which in "store butter" is usually from two o three per cent. in weight. It should be put in the
aubs or tirkins at once, as soon as worked; and if mbs or tirkins at once, as soon as worked; and if
here be not coung to ill the package, the top layer should be covered with a strong brine. When the parkage is full. the top sholial be made even and smooth, a clean piece of muslin, clipped in brine, be and over it, and salt sprinkiled on the top of the cloth the head of the firkin shoulit not touch the butter. lhe actual weight of the firkin when empts should be plainly marked on the head-two pounils alditional are is allowed in this market for what the keg will soak. Nothing is gained ultimatels by marking a dalse tare; the deception is sure to be discorered in ame. and the dishonest party loses credit thereafter. the kind of ressel in which to forward butter to .narket, depends considerably upon distance from the sity, and the time of the year Early in the season, or fresh butter intended tor immediate use, or frow sectio is hear market, the half firkin tub (the same as + firkin samed in tro). is generally preferred. Under sther circumstances, kegs holding about 100 lbs . are sest, and indeed these are almost alrays salable. - or shipping abroad, or for keeping any length of t.me, none others will answer. The best size and stape are, 22 inches high, 16 jachas diameter of bilge and $1 \angle$ inches diameter of head, outside measurement well made of white oak, with smooth, round hickors oops; the flat-hoopud firkins of ash are not liked. - hole should be bored, nor plug put in the head or sottom. The firkins or tubs shonld be thoroughly oased in brine, and the sides and bottom rubbed with fine dairy sait. Those who are receiving any consuderable quantity of butter, should ea cool well venutated callar in which to store it while awaiting a narket. No fish, onions, or oher stcong fluvored articles must bo kept near it, as butter very 800 n ibsorbs any rank effuvia, and its quality is injured.
It is generalls found most profitable to send butter orward regularly through the season, thilo it is fresh and sweet. Thas, however, will depend upon the -ates of the price carrent. Western butter is the principal supply for shipment during the warm months and it usually brings better prices then, than if held back until cold Feather, phen better grades are in market and Weste i fs not 80 much sought after. In the Winter, store butter ordinarily sells at higher ugures in the original rols, with a clean plece of muslin mrapped around each, and nicely parkel in barrels.-American Agricullurist.

## Millking.

Is milking, as in all other things, there is much to be learned. There are three things to be observed: regular milking ; fast milking, and clean milking.

A cow, line a hen, must be undisturbed, to produce well. If worried with dogs, or driven fast by rude boys, or frightened in any way, there will not be as much milk given as when the cow is quiet, and well treated. Regular milking comos under the head of good treatment. It further gets up a habit, which has much to do with giving milk. For instance, a cow milked early; say when two years old, or less ; will be a more copious milker than when began-late; say three jears. When not milked till four years old, there will be litlle milk. Ferhans the reader can
bring in mind such cases. We have nerer known successful case; and we have known n number. To milk regularly, and ni cqual hours part, ts to get up a habit, and an equalized strain. a the udder. To
 the dars are po much longer than the nights that the bag will be strained full oult of proportion. This is hurtful to the ulher. Milk, so as to dran an equ' puanity of milk nt every milking ; nuldo it regularts
iext, fast mithing, experience telle us, is hert. It tiolles more milk: doultleses, on the principle that when anilk ia let down if should at once be deann away: mal if neglected. it will ber absorbed, of parifilly leccome caked. This latter is the case, so say tho"e who have examinell it. Ill gond lairymen urge fast milking. And they alon urge clean milk. fig: : for what is left in the bag is parily alisorbed or pliried. nffecting the membrane with which it comes in montarl When thene three ruhna are carnfully olyserved. all the milk that can poswibly lue pot anny will he had.
Mhid, quict treatuent for mileh cows. This in the te-timany of crperience. Dugs shulld nerer be per mitten to hring the rows, unless ther to it mouleratels. and the cowa are unexrited lis it Fetching the cows from a distance, is positively bad, as the churning a. . cise will hurt the smilk and the bag. In such case walk them rery slowly. Go half an hour sooner after gour cows sirntreatment is the thing for mileh cors - but quick, clean, regular milking.-Dnurga. in lolley firmer.

## eforresyoudente.

## Stock Sales by Mr. Snell.

Tu the Filitor of The Cinada Fabmiat
Sin,--I send son a statement of my sales of cattle during the month of A pril :-
To Mr. Jobn Acrow, of Etobicoke, Countr of York, the short-horn bull "Ariel," 1000, Upper Canada Stock Register, aml the Sbort-horn beifer calf - Annic," 1060 . Tr, Mr. Robert Cromar, of Pilkington, County of Wellington, the Short-horn bull "Alto," 997. To Mr. W. C. Beatty, of Trafalga:, County of Halion, the Short-Lorn bull "Stanles," 732. To the Agricultural Society of the Township of Southrold. County of Elgin, the Short-horn hull "Friar John," 33. To Mr. Robert Auld, of Warwick, County of Lambton, the Galloway bull "Robert Bruce." This bul!, at 16 months old, weighed 1, lco lbs. To Nr. Thomas Crawford, of the County of I'eel, the Galloway bull "D:ncan."

JOIIS SNEL.J.
Fidmon'ou, May, 1804.

## New Flas Mill

To the Falitor of Tue Canada Farmer .
Sir, - I would inform gou of another monster flax mill just commencing in this neigbborbood. It is being put up by Mr. W. Meadrie, and will be equal in size and on a like principle to that of the Messrs. Perine, at Conestoga. Mr. Hendric is giving out flax seed to the surrounding farmers I beliere from 300 to 400 bushels hare been spolen for. This nem mill when in operation will he of great service to the farmers in these parts.

12th Con., Normanly, April 30, 1864.
D. M .

More Model Hes Hocses.-"Canadian Thistle" and "Amicus Galline" are informed that their plans of poultry-houses are under consideration.
Cider Vhegar.-A subscriber wishes to know What is the best mode of making cider vinegar. Perhaps some of our realers can give the desired information.

Patent Whited.-" Frederick J. Payne," of Tal. botville Royal, is advised to write to N.F. Laurent, Patent Clerk, Bureau of Agrienlture. Quebec, for the information he requires.
Flux Yield.-Mr. A. Mfunro, of Njchol, meations that a neighbour of his, Mr. John Moore, raised, last scason, bix acres of fiex. For the strap he obtalned ninety dollarc. Ho had lifty bushels of seed unsold at the time of our correspondent's writing. for which he expected at lenat $\$ 2$ per bushel.

Enas yor Hatcuno. -" A loaliry Funcier," in Iletod, wiahes to know where ber ran mhtain cega of the Susk or Brazilian Duck, and the M1-ck Poland Forl, for hatching. Partica. .aring cither egga or biruis for sale, rill do well to nilvertise.

Graftist.-Mr. Jobeph A. Phigge of Graftori, writes Would you, or some of the readers of the Farmer gire us gome information in the art of gralting fritit trecs, size of limbe to graft on, and receipt for making grafling wax."
Avs.-WIll some of our readers who are in the froquent practice of grafing in the tops of trees, favour us with an puswer:
Reliarkablef, Fectnity of Enes.-. Jolu anderson," of Bluc Lake, South Dumfrics, writes to eay that he has "a eree of the Leicester breed thim dropped tro lambs on the 5 th of April, and exactls a Fook after, riz. on tho 12th, she ilropped tro more. all allve and full-grown."-Another correspondent writes: " 1 ere belonging to Mr. James Thomson of Springfield, Scarboro, gare birth th other day to no less than four tine lambs, all with the mother doirs fell . Can Stonc or Snell match this?
Harromisa avo Rolring-A correspondent bends the following queries: "Will it bencal fall wheat to harrow with a light harror and roll in spring, when the ground just gets dry? Will Itrevive old paatures to harrow androll in spring? Also, what time is best to roll land that has been somn in spring?

Avs. - Fery carefnl barrowing with a light harrow qnito carly in spring would doubtless be bencficial to fall wheat Rolling also will do good when the ground is quite dry. The same may be said of old pastures. Land sown in Spring should be rolled immediately after the harroring in of the seed.
Curbed Spasti--J. Orerholt, of Clinton, writes:"Would it be asking 100 nuch of you or your readers to atate in Tue Casada Fursere whether a curbed sparin can be cured, and if so, how? I hare a fouryear old colt that is curbed, and although I have not noticed any lameness yet, some of my neighbours tell me they think it will lame him if it is not cured."

Avs. -The affection known as curb on horses arises from a strain of the posterior straight ligament of the hock, and, like other sprains, is best treated by rest, cold applications, and in some cases blistering. Regarding the case referred to, we mould adrise our correspondent to take the opinion of a competent veteri.ary surgeon.

Tee Ahti-Gliada Tustle Bran-". W. D. K." who by the by forgets to tell us wheace he writes, says: "In this part of the province, we hail with delight Mr. Stirton's proposed hill to prevent the spread of Canada Thistles, and sincerely trust it may become as fixed as the laws of the Medegand Persiau. There is no question but if once clothed with the sanction of parllament, it will confer a lasting blessing upon the coantry at large, for it will increase the value of properts in many localities at least fint per cent. It is almost impoaible to ascertain the amount of loss sustained taronghout the country, caused by the presence of thle most hateful weed. It monopolizes the choice portions the land, and fecos, as it were, on the ritals of our farms."
Tue Wire Wors.-"D. Hi." of Logierait, says: "Some farmersis this neighbourhood bave been very much hurt these few jease past by the teire womm. They are especialls bad on cld pasture fields that have been recently broken up, and have.occasionod severe loss to many, even after having summer-fallowed and euwed to wheat. By giving a short article on the subject, pointing out a preventtive, you will confer a great boon on many in this part."
AN8,- Some recommend ploughing ' it before winter as a likely method of abating this nu. sance, but the oplnion of many is that they can ouly be cradicated by patlent and persevering hand labour in connexion With some hoed crop. More on this subject hercafter
nyder the head oi Entomology.
Salt for Mastae and Thistle-Kihlina.-"One" writes: "In your article 'Saltfor manure', in your last, jou adivance an opinion that by adding a sufficient quantity of ealt the abiquilous Canada Thistle may be deitroyed; but that every other thing vegetable in the land would be destrosed with the Thistle.

Could sou, or any of jour correspondanis, state on good authority or frum experiment what quantify of salt per acre mound be sumicient:"
Ass. We nre not sure that re understand the question. If the what quantits of andt per acre is considered suffecient as a manurial apnlication, we must refer our cortespondent to page as for a reply If it be the exact quantity per acre that will render regetabie life impossible, we cannot quole nny "good authority" or "actunl experiment" wor a reply.
Qumika on Grass Siems, Sieen Wïheat and Baflest. -"Simplex" asks:-(l.) Can jou publiph in your next, what sou conceive to be the proper quantity of Timothe to sof per nere, on a light soil, and whaquantity of Clorer jou rould mix, as 1 And practice a idely differs-stating your opinion of what is known in Canada Easl, as the "Rawdon Clorer," hich is bigher priced than tho " Wextern Clorer."
(2.) as the China Wheas is becoming a farourite, 1 should be gind to lave your riers-in comparieon with the "Blach Sua Wheat, which in Lower Canala ansmercil in $1 \times 63$. far hetter on the arerage than the Scutch Fife.
(3.) Winter Barley is nivertised ; where can a fall crop of Wiater Barley, treated as we should Bye or Fail Wheat, be seen as a specimen of a much to be desirsd new fall crop.
Ass.-(1.) The common quantity of grass secal per acre is ejght pounds of Timothy and four of Clover. In light eoils, six los. of cacn would be preferable. The Rardon Clorer, known also us the Vermont and Pea-Vine Clover, is a large, late varicty, flowering at the same time ns Timothy, and therefore gooll to sow with it. On strong land it is rather coares in the stalk.
(2.)-We can gite no opinion of China Wheat," but perhaps some of our readers can. In Canada West, the Fife Wheat has quite superseted the Black Sea variets.
(3.)-We do not know where our correspondent will find a sample Barley field such as he speaks of, but perhaps some of our readers can tell him. Fall Barley is grown very successfully in various parts of Canada West.
©he Clanada fiumer.
TORONTO, EPPER CANADA, MA: 16, 1864.

## The Weather and the Orops,

This is unquestionably a very late Spring, with an unusually low temperature and heary fells of rain. A fow rarm days, at the beginning of the month produced a very sensible effect on regetation, indicating that the rernal season had arrived. Since chan the weather has been cold and wet, Eeeping all kinds of agricultural and gardening operatiuns rery much bchind. On the dricr and warmer lands peas, wheat, and other grains hare to some extent been sown, but by far the larger portion of land has yet to be sown at the date of our present issue; and it will take many dags of fine weather beforn wet and fiat lands can be touched. We hear various reports of winter wheat, and fear that in too many localities it has suffered severely, in some places tha we hare seen, it is almost an entire fallure. From other parts we learn the rinter wheat has not looked so promising for several years. It is everywhere backward, aud therefore more llable to the attacks of rust and the midge, which of late ycars hare made such sad havoc with this crop. In all situations, where the snow contiaued late, the sheat is more or less strong, and to all appearance encouraging. The clover plant, too, under such conditions, wears a strong and promsing appearance. Live stock have boen carried through tho winter generally in a healliny condition, but grass is much wanted at present.

By the way, we may in this connection just observe that in such a spring as this the benefit of draining the land is most striking. We sarp tro large fields adjoining each other yestorday, of precisels eimilar noll; one thoroughly dralned and tre other not; the
drained teld was quito firm and dry, and tho crop peas) peeping promisingly through the gronnd; whille the other is full of rater boles, and will requite at lenat a Feek's face reather before a team cen be taken on it. The diference in the lemperature of these tro otherries similar soils six laches from the surface was found by careful experiment 10 be more than seren degrecs! Farmers of Canaila! think on that fact as connected with well drained lanil, beshiles being more easily worked, with a clear gain of tro or three weeks in the spring, and a still a greater gain genemily in the crop at harrest. So true is it that on all ret lands draining is the Alpha a:ad Omega of all auccessful nad adrancing cultiration.
Since the above mas put in type a correspondent in the Tormahip of IIay, Counts of Murjn, has vent us the suggesion that if we had a trustrorthy cor respondent in erery township thr aghont the country. who would send monthly during the growing scason, a brief account of the reather and the appearance of the crops, it rould form a rery Interesting and useful column in our journal. We are obliged to our correspondent for the bint, and also for the example be gives us of the way in which the thing should bedone. Will be please to regard himself as our "weather and crop correspondent" for the Township of Ifay, and will others of our readers be kind enough to send us. from month to month, brief notes like the following which we quote from the letier nlluded to abore: "Township of IIay, May 10, 1864. We have had a very backrard spring here, 80 far. The last month has been cold and wet. Seeding is scarcely half done. Our clay soil has not been in trim ior the barron this apring. Fall wheat badly winter-killed in all exposed sltuations, especially so on stabblo summer fallows. Looking well on old sod fallows, and where the wheat had been top-dressed in the fall, with conres manure."

## The Hog Embarge,

Tue war order issued by the United States Exectl tive, probibiting the export of lise hogg, is still in force, and we learn that Mr. Adam Biown of Hamiltoa, who has recently bcen to Washington, had some vonversation with Mr. Secretary Seprard on the subject, and ascertained from him that the order was irrerocable. Our readers 9 ma arrate that a distinction is made betreen drossed and live bogs. The former are aliowed to come into Canada, but the latter are forbidden to doso. It is difficult to see the reazoa for this dis. tinction. Dressed hogs are more of the nature of arms supplies than living ones, and the ronder is that the prohibition did not "go the Fhole hoga" allve anu dead As if is, the thing opwaws very unfavorably upon our trade. Our curergand packers do not want the dressed article : it is inconrenient in winter end of no use at all in summer, and the result is thet this branch of business has been very much cartailed. Considerable disappointment and loss have becn occasioned to those who had cone to large outlay in fitting up premises and providing facilitles for porkpacking ; and others who deaigned embarking in this basiness have been prevented from doing go. We bear that but for thls prohibition three additional pork-packers intended commencing next fall in Hamilton alone, and doubtless others were coatemplating the same thing elsewhere. There is a striking moral and valuable lesson in this affair, which our farmers ought to teed. It surely teaches us the wisdom and duty of self-dependence. We ought not to lean down on others for what wu can do for ourselves. Canada is well able to supply its own pork and bacon factories; and, on the whole, perhaps we ought to be grateful to Uncle Sam for compelling us to be more celf-scliant. We hope Canadian farmers will go more vigorously and extensively into pork-raising, since there seems little reason to doubt that it will bea steady and proftable business. In conclusion, we quote part of a communication which appeared in the Hamiliton Spectator of the 7th inst, written hy Mr. Samuel Nash, park-packer, of that oity:-
" Canada will have in the futuro a good and strady mar'set at homefor her port, and can, in consequence of its superior quality, secure just as moch of the English bacon trade with America as it dcalres to keep, amonnting in the aggregite, weyto twenty milifon dollars annually. onr farmers wili see there
thould the Reciprocily Treaty be contloued they will lase a double adruntage over us iu baving au opeu uarket in the States to sell live bogs, which is stut agallost us to buy; a and, on the other Luad, in event of the abrogation of the treaty ultogether. they need have nothing whatever to fear in regard to an overuupply, for the demand will be sure to kecp pace with it, nad lead. if found neepssary. to the rerection of a range of pork houses stretching along the Canada shoref of Lake Ontario and the river St. Lawrence, from Hamilton to Montreal. Examples are almost numberless of causes apparently less important than the prohibition in question having effected radical changes and revolutions in the relations of comchanges and revolutions in the relations of com-
merce, as well as in politics and in the degtiny of merce, as well :is in politics and in the destiny of
nations; and who can tell but this very act of the lincoln Administration may stand on record as an evidence of their short-sighted and unwise commercial policy. About 35 years ago Ireland manufactured its first ham that was fit to eat ; nine years ngo Chicago was undreamt of as a pork market, now it is Chicago was undreamt of as a pork market, now it is
without comparison tiue greatest in the world. We without comparison
are only beginning.

## Provincial Exhibition of Upper Canada

We: have much pleasure in calling the atteation of our readers to the accompanying Circular, which bas been addressed to the officers, \&e., of Agricultural and Mechanical Societies by the President of the Association. Wic understand that the Prize Yist, containing full particulars of the regulations, de., will shortly be published, and may be obtained of the office-bearers of the rarious.Agricultural Societies and Mechanics' Institutes throughout the Province.
 the proper seasons, in the vicinity of hamuton, the precise time of which will be duly announced. Percons inteading to compete with these articles at the Exhibition, must submit them fur presivus trial, and the awads will be made known when the other premiums are declared during the show-week. The Board of Agriculture will dafray the cost of freight of all Reapers and Mowers transmitted fur triat. As this is a matter of greal pactical impurtance, both to manufacturers and purchasere, it is to be muped that it will receive proper ateention from all parties. The prospect of a shour that $w$ in be honurable to Lepere Canada is highly emouraging, and a wore convenient spot for such an uccasion could not be found than Hamilton. We trust that our farmers will make timely and adequate preparation:-
stwinsude, Loxmos, C. W., iynil 4, 1Set.

Sin, -1 ino 10 unfurn 3 ou that the Anwual Exhibur-n of the this year at the ctly of Itamition, on the "6th, "Fith, $23: 15$-3th and 30 th of Sertember 1861 The lrize list for the sear will exeecd ts amount any ireriously offered by tho twsocirtion inith tho
 Malme arproactisc $\$ 22,500$

 upportant alterations buto bect mado to call attention thereto. Io the weanume, allow tac to
 thej were stomataso anct tho ist of spmit of tho year in which
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Ix Cartis, From the contioual practice by too many of feeding up breading cauluc for cxhilition, which is so objectionabie, the
Boand of Articulture bavo decrod st necessary tu give power to tho judices io reject sach as si theit ujnaium havo deen over ied.

The I'race of Hales' Hrize of $\$ 00$, will be giren thls ycar for the best portablo sicara cogine, not loss than six.borse jower, sunta.
 thrd prize of $\$ 30$ and $\$ 20$. Theac cogiace aill bo renured to be apl to inotion on the ground, and be ready to be appliced to aby ita plement which it may le desirable to test the worting of
no addibunat sechun has beed added to chas 29 an hhazt, and
 Truit, A.C.


 \$150. Tho recond, ihim and fourth milies added by tho istocis tron, it The secoad prize, the tron piongh witch takes duo liret
prizo at the Exhlbition Tio third, tho woouch ploush which patzo at ilic Exhlbilion Tue third, the rooved plougt which Alierations bare toren made lo tbe lint rif the Are asd Maunfar tungg Department, which will be brought to Your notico through lirat Juurnal. These aro pheerpally tho sinking out a few inning
prizes, and $2 d d!0 g$ others of a pore important character. xuch sis
 for Nadro gosig Tar, Tunpainc, and tro prizer of Soos, manu

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ciscient local commutice or gentlemed is omautzed, and are makios preparation for tho sofe kecping and caru of tha grogerty of extub uill bo to ceren mapet coupletio sud uow it remanys whit tho
 jurt, and mako tho forthconilus Exhibition the level, ith every scuse, that has erer beon held, hot only the Gitada, but on this agaust Hest, North against South, th honest, splntel gralry. and show to the wortd what can be duno in thas uovio cuubtry of ours, ahen her poople are aroused and pue forth their coergy Iat mo alo urge ujon intendiag cxhibltors to bo ready in good time, thad places, property armaged, suficicully carly to nllow the fudee to commence thelr dutics at tho hour apolited
You whll oblge :ne by giving as nucd publicity to thle Circular as it your poricr.
jonsson,
Pres of the Provi Abri. Assochatlon of U. C .
The: fumbiomino "Canada Shomt Homs Memd Book.-The following circular has been addressed by the Secretary of the Provincial Board of Agriculture to the breedera of improred stock, and we insert it that as much publicity as possible may be giren to the information it contains.
bonrd of Agriccltemis; Tomado, Apral, iSGI.
Str, - I beg to fuform you that it is tho fatention of the Boand of
 hana Cathe in Canadi, so far as they can te obtanch, up to tho preent time It is Intended to make tho work a thorough 1 lowh of leercreace for canadian unexicry atrordiaz all the neceasiry in Cormation relating to the desceut of therr catite, without the ueces sity of consulting either the Eugiish or American Herd.Books
 with any guaratice of oblatimg a dethotio desired resule without a careful study of the pedimreces of the ammats he proposes to ureal from, In their tanous colateral sourves of derivation, as well as in tle direct lina.
At present the information necreary for such a study can onty
found scticerod throuft tho peges of the Engioh and tmericas be found sctiterod through tho ppges or the English and tmerrat

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 tralls will bor expruted ta the beet stj h of hatugraph ensratwa of the present day.
The work wilibe printed in ho autumn of the present 3 car, and sedigreces will be recelvod for inserion un to $1 s 2$ July uesh If you destre to uave any of the pedigreces of your stoct inserted. I have to muent hat s ou rill fornash them without delay, wgether with hormed catuc is well known to breders ard is very stmplo but to preveral any misake, I divo tho followiog firomation in rigat
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can Ierd Ewok, and EM R, Enish Herd Book. -
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Tho number of conies of tho lierd book to to fridied will he perures mpy you will please to flit uj, and return dic au uminums to tug liatik order as soou as conrenlent

1 am, sir, your oboulicelservant.
HLGH G THUSING:, sermetary
 Funds. J. Ruthwell, of Emerald, compians that at the usual dinner after the dnnual Fall show of the Amherst Island Agricultural Society, the exira liquor used by the guests was, by a resolution of the directors. decided 10 be paid fot wut of the surplas funds of the suciety. Our correxpondent stites that the six directors were equaliy divided in their vote on the resolution, and that the decisicn was made by the president's casting tute. Wie hope there ss some mustake bere, sa we can bardily beheve the officers of an agricultural soclety would make so glaring a misuse of public funds.

Oill Villi Illistastios We beg to call epecial utfrution to the department of Rural Architecture in the present number. It is euriched with a beautiful cugraving, representing a most desirable dwolling. with surmunding of a very attractive character We take the opportunity of remarking, that these architectural wood-cnts are designed and engraved expressly for Tils: Canada Farber, and those of our realers who have cultivated taster, and live at a distance from first-class architects, will find them, we doubt not, exceedingly valuable and useful. A like remark may be made of our engravings in general, which are almost wholly original, and the work of our own artists.

Tur: Casada Thistie at Red Reveli-This nuisance has become so prevalent and so scrious in the Red River Settlement, that the Nor' Fester, of March 31st, devotes its leading editorial to a discussion of the: question what shall be done. The article is headed, "Shall the Settlement be Abandoaed?" and the statement is made that the evil has assumed such proportions as to " menace the existence of the Settlement." The editor says:-"We hare heard of some who are convinced they cannot on this account remain on their farms more than a year or two.' The Nor Wester strongly urges upon the legislature of the colony the passage of a remedial measure forthwith.

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## Hoven or Tympanitis in Cattle.

As its name indicates, this disease consists in the distention of the rumen, or paunch, with gas, and is one of the most common diseases to which cattle are liable. It is produced by various causes. It may appear as a sequel of choking, or arise from chronic indigestion; bet it chiefly occurs from changing amimals from poor to rich, succulent food, such ns clover, tares, or retches, especially when they are wet or coverch with dew. Another cause is eating discased or frosted potatoes. Within the past month several cases hare come under our notice, arising from the last mentioned cause. Regarding the nature of tympantis, it is generally unaccompanied by inflammation, and is considered duc to a suspension of the functions of the stomach, owing to the food being of a kind to which the stomach has been unaceustomed. The consequence is, that the muscular bands of the rumen cease to act, and the food, by exposure to beat and moisture, undergoes chemical changes, by which gas is evolved.
The chicf symptom is swelling of the left fank, and this to such a degree that the swelling will be higher than the loins. When struck gently witih the hand, a dull resonant sound is cmitted. Ae the disrase progresses the respiration becomes disturbed, wivig to the distended stomach pressing on the daphragm, the aninal moans bearily, the head becomes affected, and they. :ient appears stupid. There is great pain, and if it be not relisered, the animal gety down, or stands with hind legs placed forward nuder the belly, and the back arched, and death ensues cither from raptare of the walls of the stomach or of the diaphgram, or from asphyxia,

When the tympanitis is sercre, the treatment must be prompt and caergetic. If the animal is attacked while :a pasture, and the caue not rery bad, friction to the abdomen and walking about will often retrove it If medical ireatnont is required thi beet medjcines are laxatives and stimulants. The etimniants operate by exciting tho stomach to prrform its proper functuods and inducing tho muscular pillars to act. The es ulution of gas ccases, and that already evolved is got rid of by eructations. A useful and coavenient medicine to give is linseed oll. Abont ono pound combined with threo or forar ouncas of sulphurac ether. Uil of turpentane, whiskey or gia may be administered. In many cases a powerful done of cpsom salts is bencacial, along nill gome acuive purgative, as croton oil. tein to $t$ renty drops. Hav-
ing tried such treatment as recommeaded, it there be
no appearance of the patient getting relef, but bens of lt gradually becoming rorse, the only chanco is to puncture the paunch, which must be done ou the left gide about equidistant from the last rib, the prominence of the hatuch and the lumbar vertebre. The puncturing is generally done by practitioners with a trocher and canula made for that parpose. When such au instrument is mot at hand the operation can easily be done with a well sharpened table or poeket knifo, cither of which is preterable to a penknife. In fact, in all cases when the swelling is great and the animal becoming stupid, we would adviso to puncture at once, as in many of these cases if immediato relief is not given, death will soon tako place.

Animals that have been affected with tympanitis should, for several days, be fed on a sof and easily digested diet ; and if the bowels appear constipated, a dose of purgative medicine should be given.

## Murrain.

To the Lulitor of The Canada Famaer:
Sin,-Around where I live there is a disease very prevalent and very destructive among cattle, called murrain. It comes on suddenly, and almost invariably bills them within twenty-four hours after the attack. There aro no apperent symptoms prior to passing of blood with the urine. I have read Tue Farmer pretty attentively, and bave not once scen it mentioned, when most of the other diseases which affict domestic quadrupeds have had something said about them. This leads me to think other localities are not scourged so with the murrain as the one in which I reside. It is no uncommon thing fur it, when it commences its ravages in a herd of cattle, to destroy one-half of them within a year. Various remedies have been tried, but they have generally proved ineffectual. What is the cause of it remains a mystery. Some profess to saty they have seen leeches in the livers of beasts that have dicd with the murrain, but I never saw any; others say it is an herb they eat that causes it, but that also I disbelieve, for they die in the winter as well as the summer. I never saw but one beast cured of the murrain, and that was by giving her lumps of salted butter and drenching her with buttermilk, but that cure proved uscless with the next ones tricd. Any information on thic discase will be thankfully receired.

## Brooke, April 14th, 186.t.

WILLIAM.
Note by Edtron Caxada Falimer. - We have not, in this country, had an opportunity of meeting with a case such as our correspondent desiguates Marram. In Britain the disease known as Murrain cffects the mouth and the whole alimentary caual of cattle and also the feet. It is semetimes described as the mouth and foot discase, and in general is not fatal in its character, although a great many animals become affected by it. The diseasereferred to in the above communication, is possibly that designated led-water, as we are informed it is not uncommon in many parts of Canada, although personally me have not met wilh any case of the kind.

A more particular account of the sympions attend ant on the disease our correspondent mantions, is nocessary to enable us to arrive at a correct conclusion regarding the real uature of the malady. The most charactcristic symplom of the disease known as Red-water is the increased discharge of urine, contain ing the colouring matters of the blood. When occurring in a milch cow, there is a gradual diminution of milk, which is very thin and watery, and has a peculiar frothy appearance. As the discase advances, the anlmal gets emaciated, and the urine changes its colour, at first to piak, gradaally becoming darker and darker The pulse becomes quickened and weak, there is also palpitation of the heart produced by extreme weakness. The animal gets weaker and weaker, and at leagth dics through sheer debility.
Among the causes of led water are first,- certain grasses, especially those growing on limestone and less sandy ground, the plants or trigs of certann trees, as the ont, \&e., also remoring cattle from poor land to luxurious pastures, more especially when the dass are hot and the nights cold.

The setcrity of lled-water differs considerabsy. Some casee recover in a few daje, whilst others ran on speedily to at futh termination. lied-mater in geineral is best treated by admiaistering in the carly olages a doso of purgative medicine, as one-and-a-half pounds of hipem satts, combined with some carminatire. When the boweln are freely moved the animal may be considered tolerably safe. It is also necessary to change the food-to give linseed, or oil cake, bran mashes, gruel, and also allow as much cold water as the patient chooses. If there is much weakness a quart of good beer ought to be given several times a day,-and as the discase adrances some of the compounds of ammonia are beneficial.
Red-water may usually be prevented by good feod-ing,-allowing plenty of common salt. In Britain, and more especially in Cheshire, at oue time considerable tracts of dairy land were useless for cattle on account of ineir developing led-water. These lands by draining and dressing with artificial manures, have since been rendered perfectly healths.

Liabilits for Placinc Diseased Horses reah a Priatr Stabee-In the Superior Court (General Term) the case of Wilkes rs. the Harlem R. R. Company was argued. The action mas brought to recover damages for turning out their horses infected with farcy and glanders in a meadow adjoining the stable of the plaintiff, whereby his horses took the diseases, and many of them died. Edwin James, who had obtained a verdict before a jury for the 8 um of $\$ 5,000$, argued the case of the plantiff, which came up on appeal. The question is one of cunsiderable importance. It was cuntended by the defendants counsel that they would have been liable to an indictment it injury happened lyy the public exposure of their horses in such a condition ; bat they disputed their liability to a private indiridual. We do not appreciate this distinction, aud if damage has been sustained by an individual, upon every principle of law and
justice he ought to bave a remedy.- Wilkes' Spirit.

## §ut glpiry.

## Extracts from my Bee Diary.

To the filitor of The Canida Farmer:
Sin,-The irst day of January, 1861, I brought home four stocks of bees in good condition, having nored them 50 miles or more, they remained unsettled the rest of the winter. When I placed them on their summer stands I found them much reduced in numbers. I adopted Mr. Grant's plan of making artificial swarms, as recommended by, Rev. J. G. Wood, in bis reatise on bee management. Nade my hives 12 inches front, 12 inches rear, and 13 inches deop, with bars across the top of the hive from front to rear as guides for the bees to build their combs on; had a moveable top to all my new hives. Result of first season's operations, a complete fallare as regarde artificial sirarms. Cast two swarms in the natural way, one went to the woods, one we saved, they left us some surplus honey. March 20th 1862. Placed my bees on their summer stands. One of the old stocks died during the winter. Had wintered them in a tight board box, they came out in guod cundition. Depended upon matural swarming this season, cast the first swarm the 20th Jnoe. The old stocks cast from two to five swarmseach. rut from $\ddagger$ yo to three after-cast swarms into one hive. At the cau of the swarmiag scason I had 14 hires of bees all in seeming goou condition. We will seo what my Journal says, Ist, March 1863. Lost all my old stocks and some of the new ones, leaving me five to begin the season with. The loss was not an entire one for they left us about 900 lbs . of Honey. The loss I sustained caused me to afterpt to discover why I railed. The attempt to make artificial sifarms in the summer of ' 61 , tanght me that the queca bee will not leare the main hire to inhabit a hiro placed at the side or top. The loss in '62 was I think caused by placing my hives too close together; they stood side by side, cntrance facing to the cast, in fact they becsme quecnless. Anothe fault was that ny hives wero too small, I find bees kept in small hives moro inclincd to sirarm than in large ones, In August 1862, I obtained a copy of Langstroth on the bifo and honey bee. Made during the winter of 62 and ' 63
hives No 2 , and an observing hivo as per direction, hives No 2, and an observing hire as per direction,
and tro of my omn plan for trial as per diagram. Transferred a sfock of bees and comb lito a Longatroth hire from a common one, the first reck in May 1863. It filled the main hive and solbs of surplus hones
in boyes, Practiced artificial swarming lust summer: as recommended by the above named treatise. On. of the artificial swarms filled tro boses of 161 l s. each of pure honoy, besides their winter supply. Tu sum up the result of last years work with beer. I hare nove this 12 th day of March, 1864, ten good stocks of bees, lost two in tho winter, one had a drone laying queen, which dia not discover until it was to" late to help it, the other perished for want of food


To understand the accompanying diagram, you must imagine a hive of this description to be sawed in tro halres, from front to rear, $1-1$, bottom of hive, $2 . \%$. sides, 3-3-3, cap to cover boses for surplus hones, 4, entrance for the bees to pass in and out of hive, 6 - 6 , comb frame, 5, alighting board, 7, honey board. The advantage of a hive of this description is, that, the honey moth when thrown out of the comb by the bees falling on an inclined surface, mist go out of the bive. DIOGENES.

Treatyent of the Stivg of Bees.-The organ with which bees inflict their sting corsists of two barbed or rather serrated darts issuing from a sheath and placed back to back, so as to loave a groove between them. The sheath is encased in nine cartilagenous scales provided with muscles, eight of which perform the duty of pushing the weapon out, while the ninth draws it back. To increase the pain caused by the mechanical action of the dart, a poison is secreted from two bladders situated on both betes of the intestines, and it is this poison which causes tur formation of a small pimple of an ergsipelatous redness. This generally disappears in a few instants. but sometimes when several stings have been inflicted at a time, or when even a single onic has injured a nervous filament, the inflammation is rather severe. In such cases, Dr. Latour proposes the following treatment :-1. To pall out the sting which generally remains in the wound. 2. To foment the place with iced mater, or clse extract of satura or ammonia. 3. To apply an impenctrable coating of colodion, ren dered elastic by the addition of one-tenth part of dered elastic by the addition of one-tenth part of
castor oil, whereby the production of heat in the living tissue is provented and inflamuntion avoided. -Scientijic American.
Bees and Honey of Grezeci.-The honeys of Hybla and Hymettus are at this day almost as celebrated as they were in the time of the classical Grect poets ; the honcys of Cerigo, of Zante, and many other places, continental and insular, are ali fine, and cach has its admirers. The honey of Leucadia is, perhaps, almost as good as any, and the descendants of the bees that fed Olyases deservo some consideration. I was interested. then in the little bee garden on the site of the city of Leucas. It was a rociky, burren-look ing spot, and did not at first sightsecm rery promising, for tho whole ground for a great distance atound looks naked and without vegetation. But it is not really 80 . Every little crevice or interval betrieen two stones, whether large or small, and not a few holes mado by. ycgotation in solid rock itself, contan some little fowering plant especially patronized by tho honef bec. Rosemary and sages abound. I was not much surprised, thicrefore, to see the bees, but the hires rather pazzled. me at firet. They consist of small oblong boxes placed on end on a low stone. cach box being corered by two or threc tiles, si ently to keep off the heat of the sun in summer. Two round holcs, cach about half an inch in diame. ter, sufficed for the becs to enter and emerge, and as did not scem to matter much where theeg holea were picrecd. Thio boxes frere consitructed in the raughes manner, and scomed to hapenot 2 feet nparit; and each box was about 20 inches higk, aurd. 9 inches gquare. The boes werc exceedingly buny and perfectly.good-tempered.-Ansled's Ionian Islands in 1863.


How to Plant Fruit Trees,
Is planting an orchard it is advisable firat to plow the ground into lands as wide as the distance between the rows of trees The furrows should be turned towards the centre of each land, and the lands run in such a direction that the ditches left by the plow shall carry off all the surface water. The trees are to be et out along the centre of each land. The holes rhould be dug sufteiently large to allow of the roots belng placed in their natural position, that is spread out as they grow, and not bent or doubled up in order to get them into the boles. It is well to dig them -ome six incher deeper than is necled to recerve the tree and fill in again with well pulverized surface soil, thus forming a bed into which the goung roots may grow. All bruised, broken or injured roots, rhould be pared smooth with a sharp knife, and the tree placed in the bole so that it will stand at the same depth in the ground when the earth becomes settled as it stood in the nursery. The mellor sarface =oil should be carefully worked in among the roots, in such a way that evers root will be in contact with the soil and no vacant spaces left, and thus the hole tilled up. gently pressiog down the oarth with the ioot when thero is no danger of injuring the roote. The top of the tree should also be pruned back, for in removing it from the nursery somo of the roots aro necessarily injured and others cut off, and it is desirable to restore the balance between the top and root by cutting in the branches. It is a good rule to cut back all the branches of the previous scasons growth to within four buyd of the base, besides taking off entirely, all that are not wanted. After the trees are planted the surface of the ground should be covered with partially rotted straw, leaves, or coarse litter, to the depth of from four to six inches, as far around each tree as the rools extend. It has been recommended to use manure for this purpose, but strong manure is not a safe article. It certainly should nerer be put into the holes among the roots, add there is danger of its being washed down into the soil, in too strong propertions when placed upon the top of the ground, particulariy when the tree it newly planted. The object of covering the ground over the roots of the tree is to preserve a uniform legree of moisture, and temperature, 60 that the carth whall not be haked by the sun, nor the trees suffer in time of drouth.
Standard apple treesure usually planted about :hirty fret spart each winy. in esteemed correspondent residing at Woburn, strongly recommends that in this climate they should be planted much closer together, not more than 18 feet apart, for the reason that tbey protect cach other. We bave nerer seen such an orcbard, nor are we sure that it will prove on the whole desirable.
Standard Pears, and Cherries of the Heart and Bigarreau varicties may be planted trenty feet apart cach way; Standard Plums, Peaches, and Dake Morello Chorries at eighteen feet.
Dfarf Pear, Cherry and Plam Trees are planted icu feet apart each $\begin{gathered}\text { ray; and Dwarf Apple Trees (on }\end{gathered}$ the Paradise Stock) eight fect. It is best to plaut Derarr trees to that the stock shall bo entircty in the ground, but rot any deeper. By the stock is meant that part of the tree below the place where tho hud or graft was insericd ; this part it is desirable to bury in the soil so that the place of onion betreen the gratt sad the stociz shall be just at the surface of the groand. Many treen are act mut crepr geat only to die before
the end of the season or to straggle only during a fer years of ansatiffactory existence. It is important to success that trees should bo planted in a suitable place and in a proper maner, but prominemt anong the canses of this loss is ane thing that unfortunately canoot be wholly remedied by the mot judicions selection of soil or the most careful planting. We refer to the mistahenanxidy to get large trees. . A least ninety per cent. of the orders received by our aursergmen contain the injunction. "he sure and send nice large trees, I want them for immediatc bearing." Now a large tree cannot possibly be taken up with as much root, in proportion to the top as a small one; if, then, the proper equilibrium between the root and the branches is to be restored a large part of the top must be cut away, much move than in the case of a smaller tree. This the planter is seldom willing to do, and in consequence the tree dies; and evan shen be does cut in the top sumfiently, the tree is never likely to thrive as well as if it had been transplanted smaller. Ordinarils the younger. smaller tree, treated with the same care, will in ten years not only bave outetripped the larger tree in size, but have borue more fruit. The best trees for transplanting are those that are young and thrifty. Standard apple and pear trees at three and four years old will be trausplanted rith better suceess than at any greater age. Ilum and Cherry at tro and three sears, and Peach at one and two, and Dwarf trees at the age of two and three years

## On the Best varieties of Apples for Market.

To decide absolutely as to what kinds are best under all rarictics of circumstances, is what no one can do. And it is with great diffidence that I would hazard an opinion, when to see some hundreds of apples described in our jomological works as, "good, rery good, and best," aud perhaps any one of them would please a not too fastidious taste. Het there are some varictics that are better than others, although what may be "best" in some localities, may be only second or third rate in others, otring to the great diference in soil and climate, more especially the latter ; as in almost erery section of the country the cultirator has an opportunity to choose his soil. at lenst to some extent.
If we plant with a rier to the English market, there is no doubt the green Newton Pippin is the most profitable applo, as it is a good bearer aud brings a bigher price than any other, while the cost of transportation is no more than upon a kind that briags a lesser price. But the objections to it are, that it will not do well on every soil, nor bring a fine sample with indifferent cultiration. It requires a vers deep rich clay loam resting upon lime stone, or clse the land must be heavily dressed with lime, I need not say that it benefits largely by protection from the prevsiling tinds as, indeed. erery kind of fruit docs in a greater or less degrec. As the tree is rather a slow grower, and late in coming into bearing, I would
recommend the planting of the Baldwin, Northern Spy recommend the planting of the Baldwin, Northern Spy
or any good fost growing trec, and when the tres are cight or uine years old, graft them rith the Nerrion Pippin. But before doiog so try if it will succeed ia four locality by graftiog some bearing tree with the Sewton Pippin, and give it a chance, by good cultiration and plenty of time, and if jou can grow good fair apples, frec from black spots, you will be quite
safe in going largoly into them. The Lady apple commands a rery high price as a fancy dessert apple, both in London and New Jork. The tree is rather small when full grown, but bears a heary crop, the objection to it is its rery small size. The Baldwin is an applo that takes recll in the market. It presents a fine appearance from its bigh colour, uniformity of size, and freedom trom blotebes. The tree is one of
tho best growers we bare and bears a large fine crop, the best growers we bave and beare alarge fine crop,
but it is deficht in farour. The Rhode Island Grecting should not ho passed by; it is one of the most proftable apples we have, but they shoald only he planted to a limited cxicat ; as thoy aro emphatically a cooking apple, and not of for table use, and no denior likes to bay a jarge quantity of them, wiluout
geting a lot of some othor kjad, yolfrom the immonso getting a jot of some othor kia, fot from the immonso
crops they hear the appies can he sold at a goori
profit, oren at a lower rate than some other kinds rould bring. Tho Roxbury or Boston Rasset und the American Golden Ruscet, are both vory good long keeping apples. The latter is smaller in sizs but higuer in davour and altogether a much buer fruit. The Roxbury Russet is a good lato cooking apple, and the Americnn Golden Russet is a ane late table apple. both are perfectly hardy and desirable rarieties. The Ribgton l'ippin commands a high price in tho Engllsh market. The tree is a good grower and the fruit bero is much finer than can be grown in its native England. It bears a good crop erery, year, comparativoly uniform in size and colour, and is a profitable apple, if sent to market not later than November, us it is past season carly in January.
There is an apple which I believe has not yet been described, in any pomological work, but which in my humble opinion should as a dessert apt.v, rank: among the rery best. The original tree was grown by Mr. Swayzee, in the latter part of the last century, on his farm betwoen Niagara and Queenston, and it is locally known as the Swayze Pomme Grise. It is rather below the medium size, quite crisp, and of a very high pear flavour and a long keeper. The tree bears an average crop every year, and is no doubt quite hardy. From its great superiority to all other russets, in point of farour, I have no doubt that if it were disseninated by some of our enterprising nurserymen, it would prove a great fuvourite. The original tree is or was standing a short time ago.
I might extend the list, but it is by no means desirable that many varicties should be plantod, and having a list of good growing, good bearing, good cating, and good keeping apples, it is all that is required, ualess it is to extend the season by including some of the carlier kinds. This has not been done, because except for domestic purposes it is better that they should be grown in the more Southern parts of our Prorince as they are onlt raluable if throfa early into the market.
R. N. B.

Niagara. March 17.

## Hedge Plants.

## To the Eiditor of Tuf. Casida Fanuer:

Sir,-Fencing is an expensive item in the cutgoings on a farm, especially when the materials have to be purchased at a distance. In some localities it is becoming absolutely necessary to plant hedges; and on this subject we want more information. The remarks in No. 2 of The Farser on the Buckthorn and Barberry, are encouraging. I hare upwards of sixty rods of the Buckthom, two and three years old, and can add my testimony as to its ease of transplanting, hardiness in frost, drought, \&c.; its lack of sweetness to mice, catto and shecp: but it requires a much more formidable looking barricr than it now promises, to prerent cattic that hare been " ralsed in the woods" from crowding through with their eyelids closed. If any of jour readers-not haring plants to sell-have succeeded in trainjigg a hedge of this plant, to be "bull-proof," (never mind the hogs -they ought not to run at large, then I should like to know how it is done, and rhat its age.
The Barberry is slower in growing, and the plants more dificult to raise; but, to my mind, it is the plant abore all others suitable for Canada, for bedging purposes. It can be trained to bo not only bull-proof and hog-tight, but a hird or a snake could not go through. Its folinge is beaniful at all seasons, and when in blossom it is excecdingly lovely. Woorlstock. April 2, 1864.

## Asparagus Beans

To lice Eilitor of Tas, Casada Farmat:
Sir,-Last scason I procured from Mir. Simnere, seedsman, Toronto, a packet of these beans. Let all lovers of grect beans try them. In my opinion they are superior to all others.

нон то соок тиEy.
Cut the pois, which are long, into lengths; cook and serve as you would asparagus.
fon winter vis.
Pick them when fit to use as grecn beang ; put into a firkin or keg alternate layers of common salt and beans; keep in a dry cellar. During tho past kinter I bave bad them preserved and cooked as above, frosh and green as if from the garden.


Trers favourite flower can be more casily and perfectly grown in the cooler and molster climate of Canada, than in the more southern parts of the Confincat, and for this reasou probably, it is more
popalar with us than in the United Statea. The English Pansy requires a moist, cool climeto, like that of England, where it ls grown in the perfection shown in the abore engraving.
The Delgian P'ansy bas nut yet attained that per fection of form, but it exhibits a much greater variety of colouring, bring blotched, hiriped and mottled, so as to be rery shows. This rurietry is sald to be more hardy, and less sensitive to extremes of heat and cold, than the English. Mr. Beadle and other forista, have taken the pains to import some of the seed from the most celebrated cultivators of this variety, and We hope this deserring flower will receise more general and careful cultivation. We present our readers an eugraving of some one specimens, which in size and appearance, are unexaggerated representations of flowers actually grown in Canada. We saw some pansies exhibited by George Elliot, Esq., an enthusiastic horticultural amateur, at the Guelph show last fall, which it would be difficult to excel. Those who bave only seen ordinary specimens of this flower bave but little idea of the size and perfection to which it may bo brought by skilful cultivation. $\Lambda$ fortnight since. we measured a bloon in the opey garden of Mr. Fleming, in this city, which was two and a quarter inches in diameter. A little extra attention would

have made it the fall size of the slugle pansy at the hoad of this article.
We clip the following directions, for the culture of the Pansy, from the Rural Nito Iorktr:
Oitain seeds of the best kinds, as others are unworthy of culture. The seetly may be sown on the upen ground as soon as possilite lit the spring, of in the hot-berl or cold frame, to be transplanted as soon as possible. The soil for the lansy should be deep and rather coel. Hotted sots, mixed with cow manure, is an excellent preparation, and will grow this funcer to prrfection. If the bed can be shaded a lithe from the hottest mon-lay sun the flowers will be bettre. Fluwers will appear when the plants ari quite snall, and will continue to impsore until the hot, try weather of milsummer, when, unless kept n'ell watered. they will hecome small. As soon as the cool nights of fall and the autumn rains commence. the phatits will make a new growth, and continue to bloom well until covered with snow. In the spring they will be the first to show blossoms. The plants require uo protection, but a few leaves scattered lightly orer hem is hatle trouble and considerable adrantage.

## The Verbena.

 sas гLzesisi.)
Mes. Luchos says in ber companion to the forer gardeu, in 1827, the beautiful Verbena . Meiendres, was first introduced from Buenos Ayres and it directly becume is favourite, though for some years it wab carefully k'pt in the green house, and considered difficult to mamage. Since that time, bowever. thousandy of new varietles hare been introduced, and. as they hybridie frecly, the Leading Flurists in Jurope: and ulso in the Cnited States, produce many wew varieties erery year. They are all found to root very freely from lagers and cuttings. As a bedding plant they cannot be excelled; and it would now be rare to see a flower garden without a good show of this vers useful plant. The Verbena forms one of the principal groups of fowers, at each of our Echibitions. I should like to see an alteration in the mode of shoring them; this will not be effected, however by an Fihibition of 12 or 24 rarieties in single trusses-the only means of showing the habit, is to exhibit perfect plants-and then arises the question, how is that to be done? I answer, in any way that displays the natural style and growth of the plantthis cannot be acomplished in pots, by erect training, hence the necessity for some trellis, which will best exhibit the trailing and natural habit of the plant-and at the same time display the largest amount of bloom. When in England in' 62 , I saw a trellis that scemed to meat the dificultics of the case, it was in the form of a parasol, and so arranged, that by overhanging the pot, the growth may run riot with perfect freedom; by careful training the pot is nearly hid from ricw, and the trellis covered with bloom, in its most natural form. The out-door cultication of the plant, is in all its detalls well known to you, still 1 think great improrenents may from year to year be made, and I am pleased to say, that sereral of the members of this club, put their hands to the work last year; and efrectod a great change in the appearance of their flower beds, by adopting the grouping and ribboning system.
The soil j have found to do best with the verbena. is an allurial bog soil, mixed in the proportion of one part sharp sand, and one part well rolted inanure, all well incorporated together and put through a half inch riddle before using.
The rerbena is subject to beveral discases: first the green $9 y$, which is easily destroyed, by syringing Fith Tobacco Fater, or fumigating with Tobacco smoke. The plant is also subject to the attacks of a small louse, which secms to adbere to the. roots, during the summer months, I found a remedy forthat by pouring atictle guano water on the rcots. Another disobse, has within the last two or threc ycars, mady itse appearance on the plant, and I am sorry to say I can find no remedy for it,-I rhould bo pleased to hear the experience of any, on this polnt. The disease gear to me, to be somo Jind of a blight, arst making Ith appearence on the tope of the young shoots, comspletely stopping the growth of the plant the leares begin to carl up, one anter another, untll the whole plant is degtroyed.

## Preparation for the Flower Garden,


Tus: busy season is fast approaching, endeavour to be ready for il. Clean and dress the grass harns strubleries, ©c.. prepare composts, moulds, and others requisites for the seed and planting time.

When the weather sets in favourable, uncore and irress Crocus and Tulip beds keep on proparating these things that are suitabic for spring popaciationt. such as Heliotrupes Gazanias, Algwnme. Verlemat, (Ne. de. The hardy vartetios of Germinms may still he propagated, and if properly treated. make good plants before the tirst of June. It is the practice of sume gardeners to seluct in the fall a fer good stiong plants ats stock. pot them with strong soil into large pots, cut them back and allow them rest for a short time. excite them about the tirst of January. and when rady keep on propagating from then: through the winter. Some parties in England use wood hoxes, insteal of pots, for bedding stock. The plan is a good one. both for growing and hardening ofl the plants It is. in the npinion of many fir preferable for such as Verbenas, Heliotropes and the like; in hores the roots get free course to rum. and are not -ubject to be bound up as we often see them in small pots. ©o much so that the season is sometimes nearly half over before they begin to grors.
II. Tbomson, whe strongly recommends the boa -ulture, says in an article published some time ago in the "Cuttage Gardener" something as follows. refering to spring cittings.-So soon as the cuttings make roots about an inch long, they should be inmadiately pricked off into hoves fil inches deep, of convenient sizes to have a few holes in the bottom. to be crocked wer. then use? inches of uld mushroumbed dang. nearly pure horec droppings, afterwards fill up with turfy loam and leaf mould of equal parts, with a suall portion of sand. I know from past experience that young bedding plants root and grox rery freely in such a compost, and can be lifted without injury.
In growing bedding plants, care ought to be taken not to dras them up too much, as we often find to be the case, by beeping them over close and in too much heat. As Boon as the cuttings are struck they ought to be gradually bartened off. If tender and half hardy Annuals are not sown, lose no time in getting them put in. Many are in the habit of sowing in pots. The bettor way is to prepare a bed for the purpose. say tho fret derp, of ridl sweetened mamare, a fer inches larger than the frame that is to be used: after the frame has been put on. and the bell seasoned, mould it orer to the depth of fire or sin inches. with rich turfy loam and leaf mould, mixed with a small purtion of sand. In a fer days the bed will be ready for the seed, which ought to be sown iu drills.

I would remark here, that it is very necessury, previous to planting out the beds, to bave the matter uell considered, and the arrangement fully matured. The different plants, their nature, habit of grovith, colour of forers, tints of foliage, \&c., so as to bring out a proper contrast, not only in one bed or border, but over the whole Yarterre. Such a study will be found very interesting. In this respect the Geranium tribe alone cannot fall in affording to the studionb mind the highest source of gratification. Among the new varieties that are being produced yearly, we hare colour and sbade of every description.
I would again call attention to Hybridizang ami the raising of Seedlings, a beginning has been made, perserere and success is sure to be the result.

And may there not be found among our native plants sume suitable for bedding purpuses? Who will be the first to bring such into notuce ${ }^{*}$

## Queries About Hedges, \&c.

To the Elitur of Tar Canada Farmer:
Sir,- An answer to the following questions will be gladly rocriomd through the columns of Thr Cavara
Farmer
lsi. I uish to plaut an cre green hedge or screen along the west alde of a public road near my dwelling. The object is to keep the snow from blocking up the road, which it does in winter after every atorm : also, for ormament. The soll is a cold, wet lay What kind of overgreens mould you adiviso me to plant, whether from the nureery or the forest, and at what distence apart, and bow ought I to prepare the eround? If an under-drasn were laid immedi-
ately below the line of the hedge, rould it be likely to get choked up by the roots in course of time? or would an open ditch be best, with the clay thrown up in et intge, and the trees planted on top?
2nd. Do you know of any good combined tile and brick machine which will grind the clay and turn out the tile or brick at one operation, and which ean be drwen by horse puwery if so, what will be its capaciay, and what about the price?
3 rd liare any of your corresponilents ever teated the efliciency of a tile drain along the line of a post fence, in wet clay soil. to keep the posta from heating whit the frost? Most of the fences in this section, when new, present a neat and thrifty appearance. but the frost soon makes sad work, throwing some of the posts farther out than others, and sudeways in every direction.

4th. Do you know where 1 can get the following three louhs.--" Kapperty Land Dranage. "Mlunn's Practical Land Drainer." and the "Chronicles of a Clay Fam,", and what will be the price of each? Lately 1 enquired at half a dozen or more book stores in Montreal, but could not get any of them. Don't you think it would be a good idea it you were to keep an assorment of Agricultural books at the office of The Farmer, like most of the editors of American agricultural papers?
G. Y.

Ormstown, Chateanguay Co.. C. E.
Nute by Ed. C. F.-1st. Trees will bear mansplanting better from the mursery, if they have been properly cultirated. than when taken from the forest. In planting a hedge with trees from the forest, it will be necessary to take quite small trees and use a great deal of care in removing them : and after all, very many of them will probably die. The Norway Spruce will mahe a fine screen, planted at tho feet apart. The White Cedar and the Hemluck aloo make good hedges. and atre nsually plamed a foot apart. There is some danger that an mader-drain would le choked hy the roets cer the lu lige . Lut purlaps some of the readers of Tur. Cunion Fanyen, who hase had sume experience with such a drain, will favor us.
2nd. If any of our readers_know of such a machine they will confer a favor upon our_correspondent ${ }^{-b}$ by stating where it can be found.
3rd. Will some one give the desired information? Mr. liolton has had considerable_experience in tile draining.
fll. "Munn's.Practical Land Drainer" is published by C. M. Saxton \& Co.. New York; and they may have the rother works. Parties having Agricultural and Horticultural books for sale will find it to their inturnt to alvertise them in The_Canada Faruea.

## Crecpers.

To the Lilitor if Tur Casada Fahaer:
Sir,-Is it too much to ask you_the_names of some of the best and most hardy crecping plants for rocks Sc. ; something showy and of quick growth preferred soil, such allnvial matter as las accumulated in the hollows of granite rocks.
Bruckville, March 10, 1864.
Nute ny Ed. C. F.-The Creeper most likely to thrive in auch a location is the American Ivy, (Ampe(foch rederucea.) In autumn the leares change to a rich crimson, and will shed a warm glow orer these earth-horn castles. It is a rery rapid grower, and throwe out roots at the joints, by which it attaches iturlf firmly thanything it finds for support.
The Stall Tree (Celasirus scandens) is a twining plant. winding itself around a tree or other like support. Its chief ornament is its clasters of orange rapsuled seeds, which remain through the winter.

The lunning Mystle (Fince Minor) will, no doubt, be found useful and by the help of a little trainiog, be made to cover steep slopes. It has dark, green, shining foliage, and rery pretty light blue fowers.

The Honey suckics are training plants, and need come support other than the rocks. The Fragrant Monthly is very sweet, and kecps in bloom all summer.

The Trumpet Flower (Bignonia radicans) sends out roots at the joints, wheroby it fastens itsclf to whatever it touches. It has largo scarlet flowers in August it may be that it is not sufficiently hardy that it is not

## Protection of the Strawberry.

Strandeary beds require looking after to see that they havio not too much snowlying in drifts or banks. Last spring our finest strawberrica wero very much injured by the snow and ice lying too late in the season, excluding the air and light from them, causing thein to be too tender to stand the blightest frost. This can be nyoided by removing the snow or break ing the ice, which will canse it soon to glve way. Constant' freezing and tharring is very injurious to the plants, having a tendency to draw them up. A shght covering will prevent this; clean straw is the hest to avoil the seed of weels. Some varieties stand the winter hetter than others. Triomphe de Gand proved quite hardy until last spring, when it came out nearly dead, caused by the great quantity of sce lying too late in tho scason. Last spring Adonis prored very hardy, Anstin some injured, ISallimor scarlet and Jattlett hardy. Diadem killed out. Downer's I'rolific stood well, Early Scarlet hardy, Honey very hardy, llooker some injured, Jenny Lind killed badly, Lonigworth's 1'rolific very hardy, La Constant ami Me. Froys Superior hardy, Ophchia stood well, Scarlet Magnate injured some, Syrins hardy, Treni rana killed more or less, Triomphe de Gand killed bally, Vietoria killed totally,Vicomtesse stood well, Wizard killed out, Wilson very much injured, so much so that it fuiled to mature a crop of fruit. If the coming season proves favonrable. I may be able to give a better account of the above varieties as to hardihood, and a report of their fruit-hearing qualities.

Cobourg.
B. I.OSEE.

## Apple Trees in Stiff Clay Soil, \&C.

To the Enitor of Taz Canada Fabume:
Sut,-I beg to enquire what kind of apple taces are best suited to a ruther stiff chay sull, wath very little black mould on the surface-not three incbes in places?

I see that in your first (Feb. T) number, "W. S.," of Woburn, recommends "pruning back" of the taproots of apple trees, when planting them. Dors this mean cutting most of it off and trusting to the sideroots for the nourishment of the tree? And if so, is it not a mistake?
Edgeworth, March, 1864.
Note br En. C. F.-"Gulielmus" is referred to an article on "Where to Plant," in No. 7. Apple trees do not refuse $t 0$ grow on clay soil, if it be suficiently dry and in good tilth.
The are unable to perceive any advantage to be arined by leaving a long tap-root on the apple tree. If it has been well grown at the nursery it will not hare any such tap-root.

## Gutrellatemus:

Modern education too often covers the fingers with rings, and at the same time cuts the sincers at the wrists.
An Active Oid Farmer-Mr. Charles Goodmin, of Ridgchill Farm, Eantgrinstead, England, now in the 79th Jear of his age, offers to plough any man in Suseex, of the same age, one acre of land, in eight bours, with a turnrise plough, for fire pounds-ithe ploughing to take place within one wile of Eastgrinstceal.
A Legislator"s Opinton of Earmers.-Me says: "The best part of a population are the cultivators of the soil. Independent farmers ase everywhere the basis of socicty, and the true fricnds of liberty," and yet a member of the Mraine Legislatare said the other day that if it had not been for the adrantages of a Seminary education he should have been only a farmer.
Thes Farxar's Fimmer--Once there was a peasant. in Switzerland, at work in his garden very carly in the spring. A lady passing sald, "I fear the plants which beve come formard rapidly will yet be destroyed by frost"" Mark tho wisdom of the peassdt: "'God has been our Father a great while," was the reply. The season for farming is opening. Already we see in some of the papers, that the winter has killea this, that, and the other crop. But, "God has been our Father a great rhile," and will bo till the end of the Jear and the world. Seed time and harrest never fall, and bonest indastry gets its due reward. Trust God and work hard, so shall tby hams be full, and thy sonl at casc.

## Foulty y wad.

## Coose Breeding.

As geese are long-lised, so they are lung in reaching maturity, not becoming gool for breeding pur poses before they are from three to fire years of age. The third or fourth year is as early as is desirable to mate geese for this purpose. Then having selected the best of their kind, one gander to no more than two geese, (and nome males will ouly buate with one ferale, ) and the gander not related to the geese, the breeder may congider that he is supplied with a good breculing stock for at least the next twenty years, or, as one writer says, "for life."
In confirmation of this statement, Mr S. Jaques, jr., uf Boston, Hassachusetts, wrote, in 1850, of a Bremen goose that his father imported in 1821: "She has never failed to lay from twelve to sixteen eggs every year for the last twenty-seven years, and has always been an excellent breeder and nurse, as bas all the stock and ofispring connected with her. I had the curiosity to weigh one of her brood in 1849, when nine months old exactly, and his weight, in feather, sent up twenty-two pounds in the opposite scale." The carlier the goslings are hatched in spring the better, and there is no agent so good for this purpose beter, and there is no agent so good for this purpose appear to have too dry a heat for the purpose, and though a part of the eggs may batch, the goslings are not as strong as those hatched by the goose or a duck For the first twenty four bours after hatching, like chickens, the young require no foeding. On the second day they will begin to nibble a little fine grass, or young clover, from a fresh sod placed near the or joung clover, from a fresh sod placed near the
nest. They will also want a little scalded corn meal nest. They will also want a little scalded corn meal
or oat meal, or a fer bread crumbs, and a shallow or oat meal, or a fery bread crumbs, and a shallow
vessel of water. If the weather is fine, it will soon do to "turn them out to grass," but they should be housed every night and during stormy weather, on a iry floor, until several weeks old. And the better the young are fed for the rest of the scason, the larger and better the fall goslings. Wheat-bran or the best class of "shorts" mixed with boiled potatoes makes a class of "shorts" mixed with boiled potators makes a
good feed for goslings after a few weeks old.-U. S. good feed for gos
Agricultural Rep.

## Sex of Eggs.

To the Editor of The Cansos Farmer:
Sit,- Faring observed in your issuc of the lith iust., letter from "Aristook Pioneer," aserting the falsity of the theory that the sex of the chicken wasindicated by the shape of the egg, I have a remark or two to make, which will, I think prove that the shape of the egg is no criterion of the sex. It is a fact, wat all the eggs which a hen lays, for at least one season, are precisely of the same shape; now, according to the theory, that the slape indicates the sex, all the eggs of one ben would produce cocks, and all of another would be hens, which is not the case.
A. G.

Lunenburg, April $27,1864$.
Rearlig and Feeding Yocsc Ducks.-The hest mode of rearing young ducklings depends very much upon the situation in which they are hatched. For the first month, the confonement of their mother under 3 coop, is better than too much liberty. All kinds of sopped food, buckwicent flour, indian or barley meal and water mixed thin, worms, de., suit them. No peopld are mors succeesfal than cottrigers, who keep then for the period of their existence in pens two or threo yards square, oramming them night and morning with dried pellefts of four and mater, or eggs and flour, till they arejudged to be old enough to be turned out with their mother to forage on the common or village pond.
Whenduckling have heen hatchod nader a common ben, or i turkey tien, they aro not geaerally allowed to go to the water till they become a little hardy by remaining on-land; but the moment they sec water tbey inturally plunge into it, to the great alarm of their foster-mioher, who cannot follow thein.

It is necemsary, to provent accidonts, to take care that suct ducklings come renularly home every orening ; but precantions must be taken before they aro permitted to mingle with the old ducles, icst the latter. 3ll-triat and kill. thom, though ducks are by no measit so puytacious and jealous of now comers as common fowls uniforinly are.-P Pemsylicania Farmer anib Gardener.

Tus. chompert food for fattening poultry is ground oafs. The grain is ground to a powder.

## Elaf exanstidad.

## Reoipes.

Whare indebted to a laly correspondent tor the following contributions to our " Houschold" depart ment :-

## how to nake search for shut hosoxs.

Take two ounces of fine whte gum-arabic powder, put into a pitcher, and pour on a pint of boiling water, and then, having covered it. let it stand all night; in the morning pour it carefully from the dregs into a clean bottle, cork it, and keep it for use I tablespoonful of gum-water stirred into a pint of starch. made in the usual manner, will give to invn or muslin a look of newness, when nothing else can restore them, after they lave been washed.
cisprei, mints.
d quart of flour weighs one pound and two ounces.
A duart of butter, one pound one ounce.
A quart of loaf sugar, one pound.
A quart of white sugar, powdered, one pound one ounce.
A ruart of best brown sugar, one pound two ounces.
Ten eggs meigh one pound.
Sixteen large tablespoonfuls make a half-pint, eight gill, four half a gill, dic.

## How to ort rill of dats

Tuke sage and strev small quantities where they requent. We have never yet failed of getting rid of them, not for a day or two only, but for the entire summer. Try it, you that are plagued with them, and we warrant you success. We hear much about camphor, but that, with us, never get proved auccanipho
cessful.

Waxing somewhat facetious, our fair friend adds the following, which we commend to the attention of Punch and the Grumblet:-

> TO MAEE A SMLSAME DROLL

Carry your sausage cautiously to the top of the nearest hill, and trindle carefully $\mathbf{u}$ own.
jhim taht.
Place your tart in the hinge of a door, and close uriskly.
gat a yir of glue, dissolved in skim-milk and water, will restore old crape.

Weo is a very unpopular oficer with some of the ladies?-General Mouservork.
To correct Bad Breatn.-R.-Epsom salis 1 drachm, tincture of colomba 2 drachms, infusion of roses $1 \frac{1}{2}$ ounces. Mix-to be taken once or twice a week before breakfast.
To stor Bleeding of tay: Nose.--Exiraordinary as it may appear, a piece of brown paper, folded and placed between the upper lip and gum, it is said, will stop bleeding of the nose.
To yake Clesar Corfee.-Stir one egg inte half a pound of ground coffec, and set away for use as required. No further substance for settling will be needed, and the egg tends to preserre the aroma.

Cure for Butins on Scalos.-Maple molasses spread on a fine greasy cloth, and renewed when dry, cured my little child when badiy sca'ded on the arm and breast A piece of maple sugar boiled in sufficient water will do miracles. Mothers, try it and you will be thankful.
How to Coor a Heseanv.- Many good husbands are spoiled in the cooking; some women go about as if they were bladders, and blow them up; others keep them constantly in hot water, while others frecze them by conjngal coolness ; somo smother them in batred, contention and variance, and some keep them in pickle all their lives. These women always servo them up with tongue sance. Now it cannot be supposed that husbands will be tender and good if managed in this way ; but on the contrary, very delicious if manage: as follows:-Get a jar, called the jar of faithfulness, (which all good wives kecp on hand,) place your husband in it, and set him near the fire of conjugal love : let the fire be pretty hot, but especially let it be clear, and above all let the fire be conatant. Corer him with affection, kindness and subjection, garnish with modest becoming familiarity, and spiced with pleasantry, and if you add lisees and other confectionaries, let them bo accompanjed. With a masicient por tion or secresy, mired with prudence sad moderation: tion or secresy, mired wilt prudence sad moderation:
We would advise all good wive to try this recipe, and realize what:an admirable digh a busband makcs when propenty cooked.

## 

## Toronto Marketr.

## Casada Farmas" Omic, Mas 14, 1864.


 Fall lineat, 85c to poc for common to rood prr bushel ; 236 to 90c for good to choice; 9ic to $\$ 1$ for Exirit
Sprang wheat isc to soc and 82t par bushel, unewonalls a layd of ritra bringe 83c to 84 C
Barlyy at foc to 80 c , and in one or wo caice, as high as 82 c per inchel.
oats in giod rupply at 35c to 3Sc per buviel, for common to gour,
 sood to cxim.
Hay $\$ 800$ to $\$ 1100$ per ton.
Clover Seed $\$ 400$ to \&5 25 .
Timothy Seed $\$ 150$ to $\$ 250$.
Stravo is to $\$ 6$ per ton.
 Calfishins at 8 cto 10 c jer 1 b
Sheep-shins at of 23 to $\$ 180$; the latter for catre
Lombskinsat il $\% 5$ to 51 80; the latter for extra.
Hool nomiual $-10 c$ to 41 c .
Coal $\$ 725$ to $\$ 9$ per ton.
Food si 25 to $\$ 5$ se per cord.
Procisions-Hamy licto 10!'c per itw. Wholcalo Fitich Bawn

 wholesale; ;c to 9 C per ill for orllipary; 10 c to $121_{2}$ c for sujertor, retall
Calees scarce at $i 2$ upuarde.
Shecp at $\$ 5$ to $\$ 7$ each, according to size and quality:
Eambs $\$ 2$ to $\$ \$ 00 \mathrm{erch}$
Butter-Fhosh, wholesale, at $15 \mathrm{c} \cdot$ to 20 c per 1 lb ; retall 30 c to H c per lb. Tub butter, dalry packed, 15 c to 20 c accoring to qualits, wholesale; retall, 20 c to 24 c
Sighs-loc per dozon, wholesale; rctall 10c to lite per doz
Wall- $\$ 1$ is to $\$ 2$ per birrel.
Potatoes-35c to 400 per bushel, wholesale, tis to sin prr buahel, retail.
Appies Common to good, $\$ 150$ to $\$ 225$ perlarrel ; cxtra $\$ 2$ j0 per barrcl.

Cual Oin-29, tu 3ic fus Canada, toc to USc fur Penasy aracta.
Philadelphin' Marlateth-May 12-Flur duh, wies at
 druoping; small salas nt $\$ 1$ formr red and $\$ 2$ for nhite. Corn dr
 in bond at Sce io isc.

 Oats quiet; sales at 360 .
Chicnco Marketm- Hay 12-27our quint. Wheat quiet; sales af $\$ 1203: 103121$ sor in 1 , and $\$ 1183$ for io. 2 Corn frm; sales at $\$ 101$ to $\$ 103$. Oats qutce; sales at 08c to $68: z^{\prime \prime} \mathrm{C}$ Highucines dull; sales at $\$ 115$.
Enanion Markete-May 12-Wimat-3ilicer have hitic disposition to buy at present nrices in view of the decline, which scems ineritable as soon as sceding is over, and fall iFheat shown a Ittle weakness, still with only small quantitics otiering: first quality sellsat 95c to 96c, and good average at 00c. Spring Wheat -Tho demand for seed contanues to gustain old mator, and soc to sec hate been the current prices of the weck for good, sound sam-
ples Onds in request at tec to $i$ fe for seed, and toc for inferior pleas haro been rather easier, but with an actlve demand for;alt oflering, at sac to 53c Barley rither easios, a good: deal comifis by ito cars, and conscquently lesenalng the demand on the market Good baricy trould bring from 80 c to 85 c by wholecalc. Sexns quict clover Seed rolails at \$5 to $\$ 523$; Trmody at $\$ 2$ to $\$ 250$, Fiungarian Orass and Milled inquircd for; 50 c to 625 c , wholesale Flax retalling at \$1 75 to $\$ 2$ Hool-Our quotation for some time has becn merely nominal, as none offers fie shall cndeavour \#er, -The supply has been smant, and generaly of inferior quallty; Prime Timolhy Drings 811 ; inferior and Clover \$8 to $\$ 8$. Potatoes - The demand for superior cally sorts has been very scod, and hns mostly been sapplied by forelgn importations The season is near. 1y over, but good samples of white 3iechanics would bring 75c to soc bs the lond, and oxher sorts in proportion.-Fyee Press.
 oble, markot dult, sod about sc koker, malcs 4.000 bols at $\$ 66{ }^{\circ}$ to \$6 75 for superdne State, $\$ 69$ to $\$ 695$ for extra Siate: $\$ 710$ \$7 10 for choce do, $\$ 600$ to $\$ 0$ 75 for supertice Western, $\$ 095$ to $\$ 715$ for common to medium oxtra Western, $\$ 720$ to $\$ 7$ is





 at \$1 55 -sn outkide price. Dye quiet at $\$ 143$ to $\$ 180$ Bariry at $\$ 1 \$ 2$ y to $\$ 1433$ for old mixed Western. Oats held higher it
 Fmathy. Beef quiet.
Bantalo araritetelolay 13-27our in fair local andioterior atmand, and marict arm, sales Canada from white and red wheat. and markct firm calce alos Wheatinfalr milling cicmand, Wextcra at \$1 80 ; fo. 2 Chicago Spring at \$1 30 . Corn-market steads, मith a modirato demand, xilcs ocu ia 1 at \$1 16 to $\$ 118$, ordinary dev at \$1 12h. Oats-Tho marict rulek sleads, with a mir demand; salee at soc. Sariey-blarket quict, last vale of at from $\$ 135$ to $\$ 140$. Fine-firime samples quoted within tho




 perib. Lard 10 per lb. Secd Oats 6 2e per bushel-Obserter.

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May 10, 1S64

## CARD OFITHANKS.

3LARXiHy, 301h Aprl, 184.
To tha Editor of tue Casada Faragre-I havo taken the liberty, through your valuable paiper, to thank tho Diroctors of the Agrictlition. Nethal Asscrisce jesocumon of Canada for the jrompt and satisfactory pasinent of mg clsim, for the destruction of my extensivo barns, stablos and contonts, amoundig to elghteen lundred and any dollars I am glad to sas, I had no trouble to getting my money, and I shall fool it my duty to recommend it to all tarmers in Canadr, in preference to any other Company. GEORGE MILLER

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