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## Eht fitut

## Wrik for the Month of June.

Ir has been well observed, that "in no month of the year, are the prose and poetry of farm life more mingled, than in the present." The bright sunshine, the blooming fowers, the verdant fields and forests, the chirping insects, the singing birds, and the "little basy bees," combinc to form a scenc in which activity and beanty are harmoniously blended. It is nature teaching man to labour cheerfully,-to let work and gladness go band in hand. All can appreciate the poetry of pleasant fields and pretty flowers, but it is rather prosaic to plant potatoes and hoe corn. Now begins the aght with weeds, and a stern fight it often is. Nevertheless it is a battle in which there must be no cowardly shirking, aud in prosecuting which, the farmer needs many of the qualities of the true soldier. Corn, whether for green fodder, or a crop of ears, may still ise planted. Indecd, it is hardly advisable in this climate to put corn into tho ground before the beginning of Juac. Our farmers should grow more of this valuable cercal. Millet may also be sown carly this month, and is useful both for green forage and for curing the same as hay. It is not even now too late to get a fair crop of mangolds, and carrots, if these have not yet been sown. Better put them in late than be scant of roots for winter feeding. The midale of this month is the time for getling in turnip scod, and we earnesily counsel all our readers by all means to grow a patch of these valuable esculents. No farming is worthy the name which dows not include in its regular courso,-turnip growing. Choose the best bit of ground at command, and if you can get it, sorf Coc's Superphosphate, at the rate of about 200 pounds to the acre, before drilling in your turnip seed. It will basten the growth of the young plants, and inerease the crop amazingly. Manure-making is always seasonsble, and should not be lost sight of, anytime in the year. Husband cattlo droppings, poultry dnag, privy ordure, kitchen refuse, weeds from the garden, and compost all with swamp muck, or ordinary soil. Let n fertilizing material gn to waste. Barns and obeds will soon be needed for storing away hay and grain. Let them bo in good order before the luarry of haying and barvesting comes on. Look after the tools that will then lo needed. The mowing and ceaping machino should be carefully overhauled and scythes, cradles, rakes \&e., provided and put in working order. This ought to be a busy month in the dairy. June but er is genorally considered the best produced daring the year. Tet it bo carefully made, and it will command the lighest price going. Or if it be preferred to keep it nutil winter, which may be dono very well with care, it will fetch a much betier price then without doubt. The strictest cicanliness needs to be observed in all dairy operations. Richer
pastures do not grow than are to be foand in Canala, and by skilful manufacture, our batter and cheese may challenge the world. Sheep washing and shearing will demand attention early this month. Sume fismers do this job too soon. It should be left until we have settled marm weather. The loss of their winter orer-coats all of a sudden, must be a severe shock to these most useful, bat too often ill-cared for animals. Eren in thoroughly warm weather, they should receive extra housing on chill nights and during cold storms just after shearing. By the end of this month, it will be time to cut the first crop ot clorer for seed. Sometimes animals becomo bloated from cating greedily of fresh clover. The Annual Register of Rurul Affairs preseribes a dose of pulrerized charcoal os "the best remedy" in such cases. Quantity to be given, about a tea-cop full to an arcrago sized corr, and in proportion to other creatures, according to their age and weight. It should be mixed with water, and poured down the throat from a junk bottle. Orchards should hare the soil cultivated and mellored, and a liberal supply of well-rotied manure shonld be harrowed in so that the roots may get a supply of nutrineat daring the fruiting scason. A malching of straw or old hitter is very useful in dry hot weather. Plenty of good frut is not to be raised without some tronble, any more than wher crons. Luok out for and exterminate the burer before he gets far into the wood. Destroy tent and other caterpillars, if it be not already done. Watch for the curculio, that pest of the plum orchard. Tro ways of getting rid of it are recommended by expericuced fruit growers. The first is to gather up the foung fruit that falls, and either burn it or feed it to the pigs, that the larra may be killed. Pigs and pouliry alluwed to run amung the plum trees will do this work effectually. The second plan is to jar the plam trees, and so shake of the perfected insects. White sheets should be spread for them to fall on, that they maty be readily seen, and destrosed. This is a busy month in the garden-weeding, thinoing, hocing, transplanting, watering, and sowing late seeds, will give the gardener enough to do. Cabbages, cauliflowers, carly celerg, and tomatoes, must be transplanted this month. Cacumber and melon plants will need watching, and defendung from the rarages of the striped bug. Sowing seeds at intervals of a fow days is recommended, that they may have a succession of tender leaves to feed upon, and so a supply of the older plants may get out of harm's Fay. It is in the carly stage of the plant that the bug feeds on it. Scattering ashes, plaster, and lime, also destruction by hand, aro practised to get rid of tbese marauders. Cooping a hen with a krood of young chicks near the vincs is a good plan. The chicks will derour the longs, and do the plants no barm. Lettuce, beans, peas, and radishes, may be sown at interrals, to keep up a supply as wanted. Gooscberry and currant trees must bo watohed, and on any sign of the worm or slug appearing, fresh
lime should be sifted among the branches. The heads of fruit trees may be shaped, and a too rampart growth prevnnted by jadicious pinching of the yonng shoots. This is an important month with bees, as it is the time for new swarms to issne from the hives. Erery bee-kecper should supply himself with a good modern text book on api-culture. He will find many suggestions in such a work, of especial value about swarming time.

## Phosphorus Set Free by Tillage.

Thre effects produced by the thorongh tillage of the soil, whether chemically or plysically, are most interesting and important, and should be carefully studied by every farmer desirous of increasing his profits and improving his art. Cultivation opens up the soil to the beneficent influences of air, warmth, and moisture, by which, injurious compounds are not only rendered harmless to regetation, but, in many cascs, even to yield raluable nourishment to plants.
"The chemical analysis of a great variety of vegetables has revealed to us the fact that the ash of plants (their residuam on being burnt) known to be uscless as food, almost invariably contains but asmall proportion of phosphoric acid, whilst the ash of wheat, oats, and the like, invariably attains a much larger proportion ; and tre are further tanght, by chemical analysis, that the most rutritions parts of those plants invariably yicld the greatest proportion of phosphoric acid,-thus the ashes of the seed of wheat, cats, and rye. contain nearly balf their weight of pho ophoric acid."
It is not a little singular that phosphorus, all important in the cconomy of nature though it be, is a comparatively scarce element. Although we now know that it is contained in erery fertile soil, there was a time, and that not long since, when its presence was unnoticed in the statements of the analyses of soils; and, as it cuald not be traced from the soil to the animal, there wore not wanting physiologists to maintain that phosnhorus found in animals was elaborated under the influence of the life-power. The recent adsances which hare been made in the prucusses of analysis, have caluled chemists to detect phosphorns in almost overy varicty of rock and soil and there is now no duficulty in tracing the puosphorus of animal substances through the vegetable to the minernl kingdom.
It appears to be a rise arrangement that phosphorus should exist in such small quantitics in the earth, and that eren the greater portion of this small supply should be locked up in the rocky portion of the soilBut, were it otherwise,-were phosphorus and the other constituents of the soil, which are used as food by plants, supplicd in an arailablo form in unlimited quantity, the husbandman could not carn his bread by the smeat of his browf, in obediance to the flat of the First Great Cause. The tilling of the soil, is, therefore, but the setting free, or rendering arailable for the purposo of vegetablo nutrition, a portion of the plosphoms which it containg. Thero are, no
danbt, other ends sersed by the process, but this is the cher one. The principal cutase of ties infertility of the soll is the want of a dae proportion of araidable phophoric acal. The manures wheh hase been proved $t$, posess the mont ampliorative offiet on "Nhumsed or nothrally inferiou muils, are those Whel comain a harge proporion of phosphon and. In siew of these fircts. phosphorave is seen to be of the depest interest toman, whether he live by cultivating ic soil or the mind.
 birial firtilizios, which are now emploged as anxilh.rries to farm yared manure, , wre valued in proportion th their per cenage of anmumia and phosphotia acia, but it should be borne in mund that the quanaty of ammonia contained in the sorl and atmosphere is pratically almust unlimiced, whith the proportime of phosplorus, contuned er en in the best suils, is rary small, wal is, after the most taborwers weament, rendered aseffol. Every addinon of ammona to the soil, aids on the solution of the mineral mather. and enables the phat to draw. an it were, in adsane upon the resources of the l.anl. Thas, whilst the compoundz of phopphorus enrich the soil and directly contribate to the wants of wortahte lifo ammonias chuelf acts as a cultent of the sathiar and wher mineral constituents; in fact. whint in the manjorily of cases, the contimuel application of l'eruvian Guano, sulphate of ammonia, aud other ammoniacal manure. is but a constant aid to tie crops to exhaust the soil. a liberal application of phosphoric compounds makes a procitise addition to the soils fertility.

## The Turnip and its Cultivation,

" Counlry Gentleman" Prise Basay
ay s. c. siblit, Lussuaive, i. w.
I an going to give youmy experience in turnip culture during the last ien years. on my father's firm. I sluall not attempt to gire positite proof that it is a
profiable or paring crop, but I cmanot molersland how any one that kecps goon stock. and pars attention to pushing forward young animals. cill woll do without them. It is true that if all the lasur that must be expended in its cultavation be taken suto account, it is one of the moit expensive crops we account, it is one of the most expensire crops we
raise, if not the most expensite. but it leares the lamd in first rate condition tor growing future crops of any find. For it must be well mamured to produce a good crop of turnipa, and it mut be so well chltivated that all grasses and weeds are effectually billod We can do more injury to (anala thistles hy cultirating turnips than by any other course. In get a larger amount of good, succalent fecal tor stuch from the same gaantity of lamilman we cin of any o ber crop Wi mate an immema piba of eveallont manure to kecp up the f.um, and ourstock is lealitier and better for a liberal supply of roots. leeides all this there is more real pleasure in wathatig amun: and watching the growth and progress of a ficld of and watching the growth and progress of a field of
surnips than can be derivel from any onfor crop; it ornips than can be derifelly fascinating, and we consisher it by to moans an uncortain crop; in ten yoars we have wever l.uled 10 get an arorage crop. This year, 1801.11 sphte of the most severedruuth that the ulhest $i$ ihasianint* has ever experienced, we hare cultivated twenty-sis arras, and never liad a better crop I am gutio cortain that they will arerage guv buble!s per acre. This is considered a good crop, but as lu:h as 1.00 , bushels liave been grown an Cianad.s. In this, is in tho cultivation of any crop, a great deal has to be loarned lis obacriation and experience-sometimes lear bought experience.
A good crop of tarmips may lee obataned withuat the use of artulicial or expensive insanures, by using only good harngard manure: by this I do not mant the kind of manure generally used hy our farmers, such as rotten straw and the droppangs of annmals that have been fed on straw, but manure made fiom animals that fiave licen well fent. I thinh the burat time to apply the mannre is in flio fatl, spreat and plongheil under. In thiswav it keeps the soil open and loose during the winter, and becomes thoronghly mxed with it. But of it is aot contencent to apply it in the fall, manure that has lienn composiod during thi. winter, and is well rotted, can be nppliod in tho Eame way in the spring. But perhapes bettur way to grt immedate benctit from tho mathure is to upen out drills and spread the manure in the drilly, ident close them and sow upon tho ton. This minde re-
quires more labour, but will perlaps pay for it in the
crop. as the manure is dircetly under the plants, and mul hare a gond ellect. If the lamithas been plonghed in the fall, as it certainly should be, it need not bo mored again till most of the epring work is through, about the last of Nay, whon it shoulal be ploughed, liarrowed and rolled, then let lie for a rreck or tro so that anv seeds of noxions weeds that may bo pre sunt will hive timo to spront; the land should then be thorontigis worked with the plough, harrow, cultiatior and roller, tall it is dine null loose; a fine seced bed is of tho greatest importance. It tho hant is of a charactet that witl batie, it should never he worlied while wot

The best way to prepare the tand tur sowing is to mark it ont in trilis from 26 to 30 inches apirt. I thank the latter thstince preferable, and for this purpose a donble monlt-boari plough is a great advantage. I roller should be passed over the dinlis, lengthwise before sowing ; tha thatens the drills and makes them more sohd, to prevent tho seed being deposited too drep $I$ on may get quite as gooll a crop by sowing and cultivating on the lerel, but they are much asior to worli in raised drills, and the horse-hoc can be uved sooner whicat injury tu die plants. The alrill we bave used for gowing is une of the hind used da lorkshra limmlame, a cumborons machine, drawn by Ifo horses (sors three dralts at a time), and has ant arrangement for sowng dry manare walithe sede which can be need or not at pleasure. We have sowed it mixfurc of coal dust, ashes, bone-dugt anil lry swamp muck wih very satisfactury results. It is certamiy a goorl prameiple to sow manure wiah the secd, but it is rathur iroublesume. We blase nefer trical superphosphate, but hare no doubt it is a good thing.
lor covering the seed I think a brush is the best thing ; it may be made of green lranches or boughs drawn through a light frame of poles; a roller packs the gromm, and when a shower of raiu comes it is ant to form a crust on the surfice, which presents the plants from coming up. I think it better to 80 m after a shower if possible, while the ground is damp and the crust hows not form on the surface as it would if they were sown before a shower, besides the gromm is better fur being a little solid, as the seed docs not need to be so deep. The best lime to sow is about the evth of June ; any time between tbe lith and ejth will doverywell, hut if the weather, or other things, are unfaromable to sowing at that time, 1 would not he in a hurry. I babeseen a good crop of turnips that were Suwn on the l'2th of July. We
ustably sow about 2 puunds of sed per acre; some persons sow $2 \frac{1}{2}$ or 3 punnuls. Of course a much less fuanuy woudd lusuliciuntat it all grew, but it may not all gerdanath, or ctac lly mats come in fur a share, and it is well tulhte enongh, ay the aditional erpense is only trilling, besides you lave a better choice o plants in the operation of hocing and thinning.

As soon as the plants are large enowgh, they must be thoned by striking the hoe acros, the drill, cat ting wat the width of the hoe, and leaving only one plant in a place. dfter a litue practice it will never be necessary to use the hand in separating the plants, and at good hatud can hee threceduarters of an acre a day. 'Ihc loocs shunh la frum 7 to 9 iaches whe and straight in the heal. So as to be used in pushing fiom you as well as pulling towards you.
l'erons acquatteal wah tarnap culuare are very apt tu fall wato the error of leasing the plants too wach. Hat e sprauge toachis us that undor no circumstances should they be less than 9 inches apart and I think that 12 inches is decidedly preferable It wall be seen in harcestang that where they are thin dury ase mach lariger, anit there is lese expense in larustang large turnigh that small onra In the of somio quol judgment ; cari slionld be taken to select the largest and leall!aest luohing platats, and un wrdi (u) die this it is :citer tir cut ontsiveral small wass ens if it maked a mush wider blank than Hand The cuil shonlal be woll noved aronad crory plant so that it will fall over ; they will bear a good deal of totght usafe, nud be better for it. The erop "all pay fur brang taice hand lived. The horse-hoe shoad bo fredy useit from the time the plants arc larbe drmanh for thoming till hey are too harge to
arhmit of its bassing between the drills. I am so well sathsfied of the benefit of horse-hocing that I helieve it wuuld pisy to 1 un that implement through them unce a werli.
The quirhest and casiost mode of barvesting that I know of is to cut the tops of with loes ; the hoes should be ground pretty sharp; then plough then out, hhang the mund liuard off an iron plongh for the purpund, the plunglisliare crits of most of the roots, and bushes the taraips out of the ground.
For storiag, nothing is better than a cellar. A collar under a driviag housu or barn, with trap doon wrage mewt to pre'vent tho earlis from gning into thr collar with the turaips. It is a sort of prate or riddle madu of two pieges of scantling or plank ten fect long
and tro feet wide, with bais of iron pat in crossmise nbout 2 inches apart, and tiro legs bolted on to one end to elerate it to a slanting position. The turnips are thrown on to this and roll into the cellar, while the earth falls through upon the floor. It is rery important to keep the earth from going into the cellar, as it prevents the circulation of air among them, and causes them to heat and rot. Whenever the weather is mald all the doors and windows should be lett open, as there is more danger from heating than froun freezing where they are stored in such large massers. If they should heat, it can bo detected hy the smell, and in that case they must bo picked uver, mid the injured vies remurad. If the floors of cellars amd root houses could be constructed of scantling or narrow phanhs placed a couple of incless apart, so that a current of air could pass under and up through them, it would be a great impruvement.
Where sulicient room in cellars cannot be provided, thers mag le bept tolerably safo in pits. Dig a trench 4 fret wide, and 8 or 10 inches deep; gill in and shape up to a poiut; corce with straw 8 iaches decy, and then abuut seven inches of earth, leaving the top open 6 inches nide, and cover with wide boardy, to throw uff the rain. They should be taken out of the pits curly in spring, and put in the barn. For soung animals turnips must be sliced, but catthe and sheep from two years old upwards will eat them rery well without being cut, and are not any nore liable to get choked. Young slecep, or sheen that are being littened, may with safety be fed all the turuips they can eat, but it is not good to gire a very large suply to brediug ewes. Cows will eat a longhel and it half a day, but a man must have plenty to feel at that rate. llogs will winter very well on turnips.
The abore remarks apply only to Sicedish turaips.

## Progress of Flax Cultivation.

Tus suljoined report of the progress and increasing popularity of fax, as an object of culture among our farmers, has been receive by the Board of Agriculture of Upper Canala, from that energetic promoter of flaz. cultivation, Mr. J. A. Donaldson, and has been handed to us for publication, by the Secretary of the Board.
To the I'resident of the Bomb of Agricclutcre:
Sir, ds I have been engaged by the Board to gire instructions in the cultivation of the flax plant, I deem it my duty to furnish you with a brief statement of the progress that is being made, and have now the honour to state that since the first of $J_{\text {annarr }} I$ have been unceasing in my endeavours to bring this important subject prominently beforo the agriculturists of Western Canada. In doing so, I have attended several mectings in different sections of the cuuntry, and found on all occasions a strong desire, on the part of tho farmers, to give this new crop a fair trial this season.
In the county of Peel, three meetings were held during the month of April, one at Streetsville, one at Br.umptun, and a third at Meadowvale. On all Hree occasions the Messrs. Gooderham Wi Worts athended, offring the most ciiberal inducements to the franera to commence its cultivation in that section of comatry. They not onls offered to provide them with seed fur sowing, and wait for pay for it till after harvest, but stated "they would be prepared to buy the crop in the autumn, offering the bandsome snm of siop per ton for all they could procure, and this prico for the straw with the seed on, making it conditional at the same time that tho farmers could have this price aner the faxs had been cut either with the cradle or reaping machune, or $\$ 14$ per ton if pulled by hand in the usual way." This ought to bo a great inducement, when we are aware that an average crop of dax, in ordinary seasuns, will produce in this state, from 2 to 3 tons per acre, allowing tho farmer to realize from $\$ 33$ to $\$ 40$ per acrc for the crop. Many parties accepted this liberal offer, and put their names dorn for seed enough to sow from diro to ten acres each. Mr. William Gooderham, of Breadownale, assured the partics at the meeting, that ho woald sow at least thirty acres himself, as an examplo to others. Mr. WFillinm Perine, of Couestoga, Co. of Waterloo, attended these meetings alse, and stated that from 11 ycars' experience in the county of Waterloo, ho bad
every reason to beliere flax could be made ono of tho best paging orops in Canada. He also corroborated the statements made ing me, from time to time, and concluded his remarks by sayiug be and his brother intended putting in 4,000 acres this acason.

In the counts of Simcoe, I niso visited several other places, showing the samples from the manufactory of village of Churchill, near Lefroy Station, a meetiag village of Churchill, noar Ledroy Siation, a meetiag present. After hearing explanationg, a mubscription was raised to the amount of $\$ 175$ for the purpose of assisting any parly who frould ereci a scutch mill, and soreral parties pledged themselves to put in from three to five acros each.

At Woodstock, I also attended tro large meetinge, and found in this section of country, a gruat deal had already been done. A Nr. Hrown has had two scutchlog mills at work during the last two years, and has there giren out sced enough to sory from 800 to 1,000 acres. IIo also stated at the meeting that he could get any quantity sown, as the furmers had felt the benefle they receivel from this crop. The Hon. Mr. Alexander, Doctor Cottle, and aereral members of the Agricultural Societyattended on both occasions, and perhaps no part of Canada is likely to go morn extensively into the growth of this new crop than the farmers in the county of Oxford. An oil mill is in full operation here aud doing a largo business.

On Saturday week I attended a largo meeting in the Town Mall at Brantford. The major filled the chair, nid a number of the most enterprisiog farmers in tho neighbourhood were present. Two parties, present at the meeting. stated they intended putting up mills this summer and were then prepared to ofer seed to the farmers who were inclined to commence uperations. Mr. Finlayson, one of the parties, stated he was not only prepared to offer seed on the same terms as others, and wait for pay till after harvest, but he would adsance money then, on account of the crop, and would pay as liberal prices as any other party in the country. Mr. Lyous, from the town of Sincoe, connty of Norfolk, who intends putting up a mill, made similar offen. A lively discussion took place here annong the farmers themselves. Sereral stated they fully intended to make a beginning this season, while others said they had already grown it. One party stated be had sereral acres, both last year and year previous, of which be had orer 17 bushels of seed per acre.

A strong feeling was exhibited in farour of the project on all sides, and no doubt as large quantity will be sown. I have also answered numerous letters of eaquiry, and on all occasions have found the farmers ready to make the trial, wherever a mill may be started.

JUIN A. DOi゙aluson,
Toronto, 8th May, 1865.

## Spring Seeding and Drainage

## To the Fulitor of The: Canada Famaer:

Sir,-It beiug a general remark that wheat is looking very well, I have just been taking a stroll over a few farms in this neighbourhood, to cheer my eges with a sight of returning prosperity to the farmers. But hope rather gave way to sadness as I proceeded. Hany fields that look well in the distance, on nearer inspection, prove very spotted. Furrows stand full of wrater, often reaching some fect on the adjoining ridges, and erery where large patches where the plant is not quite dead, but struggling for existence in a soil waterlogged, cold and heavy, like a bed of putty. Some progress has been made with spring seeding ; but furmers whom I havo met, state that more than half is get to sow, that the reather has been so unfarorable, that when the land is ready for working another rain cones, and causes another week's delay. One farmer, who has ten acres of barley to sow, commenced with the cultivator on Friday, 28th April, when it was just dry enough for working, and got one half of it in tine order, intending to sow it next day; but a beary rain fell that night, and next morning it was under water. On Friday, the 5th May, the other five acres were dry enough, but the five that had been cultivated, having the furrows all closed, could not be tonched; so he cultivated tho other fre, noll got them in good condition, intending, as before, to sow next day ; but on Saturday it again rained heavily, and now the whole ten acres are farther back, and in Forme condition, than they nere a fortaight ago. Io is not alone in this experionce.

Nany are in the same prodicament, and will be samlag till near the end of May. The result is likely to be tho same as last gear: before the plant is large enough to abade the land, tho hot June an will acorch the one, and bake the other, and the orop proro a failure. Had these ton acres boen under drained they would have been dry on the Weanesdays instead of the Fridays, and been sowa and harrowed in grod ordor.
In Tal Caxada Faristr, of Auguat 1st, you mado thia remark, "The great lesson of the past season is the vital importanes of thorough drainge." As far as this locality is concerned, that leason has not been learned. It has scarcely been begun to be learned. It may bo eafely asserted there are dot fwents-lvo acres of drained land in the Township of Clinton; and thero is not $n$ township in Canada that rould bo more benentted by draining. It, in common with the other townships of tho County of Lincoln, atands at present rather low in its average productions, but the soil is naturally of the first order, and rith thorough drainage, the whole of it , particularly that portion lying between the mountain and the lake shore, would not be surpassed in the wide prorld. My first impulse, on returning from my walk, was to write to Joil to complain of the littlo attention given to the subject of draining in your columns; but on looking back over them, I pereeive this would have becn unjust, as many articles, both original and selected, hare appeared, and so much to the purpose, that instead of attempting to give anything new on the subject, I will content myself with recalliug the careful attention of your readers to the articles and communications on the subject, in the numbors here indicated: Vol. I., No. 5, page $6 \overline{1}$; Vol. I., No. 11, page
162 ; Vol. I. No. 15, page 226 ; Vol. I., No. 17, yago 259 ; Vol. II., No. 3 , parg 34
In the number last referred to is a letter from a subscribe= in Nelson, who makes use of the following emphatic language. "The advantages of underdraining cannot be over-estimatel," and: "I beliero it to bo the foundation of all good farming," sentences worthy to be printed in eapitals at the top of every page of your journal. I will merely add, as well nipht farmers expect their cattle to thrive if the action of bowels and kidnegs were suspended, nod
the food, after being retained for a time in the stomach and partially digested, spued out by the mouth, as expect crops to come to full growth, when the rains, their natural food, instead of being digested by percolation and filtration, are spued from the surice in their natural state. Nature has, in some localities, furnished these channels in gravelly subsoils, but where they are arranting, it is the very first function of the farming art to supply them.
But draining is very expensive, many say, of course it is. So is clearing a farm. So is buidding a house, or a barn. So is a carriage and a fine pair of horses. So las any improvenent. But drainage has outhay is so sure of a good return. It would pay to borrow inoney efenat ten per cent. for this purpose, but money should be had at a much lower rate. Were the govermment to adopt some measures to creato a loan fund for this special object, that would not cost oror fice per cent. it rould be an immense advanituge to the country. The legislature has chariered bants which furnish ample accommodation for commercial purposes, but no prosision is made to furnish means for conducting landed improvements, although of far more importance. The merchant, who imports dry goods to be wern by farmers' families, can get his paper discounted at a bank, and buy exclange to pay for them; but the farmer, who wants money to pay labourens for craining bis land, to creato the means to pay for these goods, can get no disrounts. And yet the final result in the former case is the rags of the Worn out clolhing-in the latter, a great increase in the productions and wealth of our country. If the government cannot see its way to move in this matter,
the next best source, that I know of, is the Canada Landed Credit Company, who lend money to farmers at one per cent. moro than bank rates, and will receivo payment of the principal in yearly instaiments of two cent. If the are any farmers who are resolred not to go in debt cren for this purpose, I would adrise them to sell as much of their land as would enablo them to drain the remainder ; and they will bo happier, wealthier, and moro independent
Mr. Sulton's advertisement of tilo making machinces is a sign of progress in this work, in the County of pee, at any ratc. I sincerely hope those who havo Kr. Little of this village, who some time ago got' ${ }_{3}$ ofers to furniah 3 -inch tiles, in lota of fre tbousand
as lorp an $\$ 10$ por thousand; and yet, daring the paot
gear, he las not sold as many as would drain a mingle jear,
acre.
By way of contribnting a little to a work to ipeportant, I bog to make tho following proposal. It lify farmera will depozit with you one dollar each, I rill add ffty more, to make a promium of one hua: drod dollara to be aivarded at the Provincial Exhobl. tion of 1868 to the farmer who will putin the grenicat extont of tilo drains during tho year, from lat Sept., 1865, to 1st Scpt., 1866. The tile to be not less than three inch bore. The depth of drain not leas than threo feot, where the digging can be done with plough or spade; nor loss than thirty incles in any noil Competitora to provide, as the work progressea, proof that Fill be aatisfactory to the judgos, of compitance with these conditions. To be open for computition o all farmers in Canada VYest.
I purpose making a aimilar proposal to this Township (Clinton), to the extent of treaty-five dollarm. That is to say, if twenty-five farmers of this townahip will deposit with the Treasurer of the Torjnehif Agricullural Socioty ono dollar each, I will add twenty-five more, to mako a premium of afty dollart,
to be nwarded at the Tornship Fair in 1866 , $u b j e c t$ to be nwarded at the Tornship Fair in 1866, wubject to the same conditions as named for the province open for competition to the Township of Clinton.

Beamsville, 8th May, 1865.
Note by Ed. C. F.-We sincerely hope the chal. lenge given by our correspondent will bo accoptr.1. Send in your names, gentlemen, for the Drafage Prize Fund of 1866. There will be no objection if more than the amount apecified is pledgod. Indeed, it rould be well to havo second and third prizes, at in other classes.

Mantre-rue: Faryer's Capital -A corrcspondent of the Couniry Gentleman says:-"I rould guggent, what has often been maintained before, that 'mos nure is the farmer's capital,' and that ali of it which is so frequently wasted around the privies, the barayards, how pens, \&ic., be saved, and judiciously applicd to the orchards, gardens, and farms, and a grea increase of wealth, health, and happiness, would result therefrom to the people of this country.'
Tae Best Kisd of Potato Sets.-A correspondent of the Albany Country Gentleman gives the following result of his experience:-1. From all my examinations I came to the conclusion that the ejes of any single potato hare different degrees of strength or germinating power, and that this difference extends to the plant, giving it a greater or less degree of vig our and growth. 2. That the strength of growth io greater in some hinds of potatoes than others. 3. That there is a greater difference in the strength of the cyes of some kinds of potatoes than in others. 4. That this diference is in degree marked by its external or apparent development. 6. It would seem that the best eye of the smaller potato is less vigorous than the best ese of the larger one of the same siad, but that is not jet proved by experiment. The writer also adds that in some kinds the eje is very faintly marked; in the better kinds the eye seems a more important feature, and in the best kirds the eyes are strongly marked, appearing to be only a mass of deep set cyes.
Growino Clgter and Clover Seed.-The editor of the Genesce Farmer remiarks:
I bought six bushels of clover seed to day and had to pay $\$ 17$ per bushel for it. But clover, ou a grain firm, is indispensable. It in the only really renovating crop we have. Joins Jonsstos, now that he has made his land so rich, may think clover does not pay, but on most farms we must grow clover or we shall grow little clse. In fact, one of tho means Mr. Johnston used to bring up his land was by raising large crops of clover and making it into liay to be fed to sheep in winter. The manure from clover is much more valuable than from timothy. Clover may not pay dircetly as well as timothy, but when we take into consideration the fact that it impoverishes the soil less than timothy, white it makes better manure, and is, treorelically at least, weight for weight, quite as nutritious, clover must be the main reliance of wheat-growers for keeping up the fertility of the land. I have always recommended the farmers in Western New-York to "grorz their own clover seed, and sow it rith an unsparing land." I will for the future endearor to conform my practico to my preaching. I think it will bo some years before I again pay out $\$ 102$ for six bushels of cloper seed. It is an exsellent plan to have a piece of young clover near the barn-yard, and give it a heary dresting of well rotted manure in the fall. This will start it very the thing to cut ereon to food borses at noom in the stable. And if the nocond crop is allowed to go to
seod, a large yield may be expected, over is tuch seod, a large yield may
dry scason as the last.

## Shecy fiusbaudry.

## The Pros and Cons of Sheep Washing.

Therfe is much diversity of opinion. at the pros.mi ime, in regard to the utility of washing sherep, preparatory to shearing them : and. whatover merita either course mar possens, it is clear that the respect ire ndrocates of washed sheep, or unmashod. have un dimeulty in dnding arguments to support their cast Fithout attempling to arrogate to nurselves then functions of arbitrator in the diepute. wr propuser the put our readers in possession of the pros and rons addaced by the adrocates of each coursi, in orter that they may form their own conclusions. and shape their practice accordingly.
Briefly then, the arguments advanced by the advocates of rashing are as follows:- The practice prerents a useless transportation of dirt to market. and improres the salcability of the wool when offered there. It prevents bugers applying an unequal rule of shrinkage, which is generally one-third, to all unmashed wool indiscriminately; and thereby. consequently, increases the profits of the producer proportionably,-an item which, in a large flock, would amount to something consiterable. It costs less, per bead, clipping, and the sheep can be better shora; while it prevents waste, thereby rentering more wool marketable.

It cannot be denied thai these reasons are mational, and perfectly intelligible, so far as thergo, and they certainly deserte the careful consideration of our producers. On the other hand; the alleged disadvan. tages stand forth in an equal, if not in a more formitablearray. Washing, it is nhjectol is injuriona to the health of sheep, rendering them liahte to rentrart cold, and thereby fall a prey to other discaspa. This may arisg cither from their heing over-heated by trarelling some distance to the maching pool or hy a continuance of cold, wet weather for anveral days anter the proces:, -neither of rhich circumstances are of unfequent ocrurrener By wahing shomp are subjected to unnecerisary torror from the unusual handling and immersion, while they naturally dislike fret in every form, whetherit is in the shape of wet pastures, leaky sheds, or wet fleces It is furthrer submitted, that any conventional rule of shrinkagn. when found unfair, should be abanloned at oner: and. last, but not least, the procese, when diverict washing pools are resorted to, sulijents the animata tu tho danger of contracting contagious diseases.
Such, in substance, are the pros and cons of the case, to which we invite the eatnest combinsation of flock-masters. At the same time, we would remind them that whaterer importance they maty be dispowed to attach to the objections abore mentioned, that of the liability to contract houf-rut and other dievases. by trarelling the same road to the common washing place, cannot be gainsayed. We hare hnown in our experience, sereral instances of liver rut and scal being introduced among flochs, where the appearance of the inaladies could be attributed to no other canse than that of using a public washin' pool.
Sheep are peculiarly liable to contract disease, as tho bitter experience of many a flock-master will testify. Scab may be contracted by a clean heaithy sheep, being in a field, where that loathsome disease has prefailed, for a ferr minutes; and hoofrot may result to sound animals, from travelling on the same road over which a lame flock had passed. Too much caution, therefore, cannot bo observed, in keeping shecp amay from any place to which the shatow of suspicion attaches. In the face of these considerations, it is undoubtedly the sounder policy for staunch persererers in sheep washing, to uso a large tub for the purpose, in a convenient locality, unless they aro fortunate enough to lave a stream flowing through their grounds. By this course, the liability to contract disease will be obviated; and, at the same time, the raluable manure derifed from the wool may
bue uned for irrigating purposes. The value of the polsula alome extrarted from it during the proces of Washinge is proved, by experimenta, to be worth aboul Sle on 300 sherp.
It is mot unfrequenty the cosc that wool is washed after buing remored from the sheen. This courso exposes the producer to many disadvantages when his woml is marheied. The pecmiary loss thas entablet, is very fairly net furth in the letter of "A Toronto llealer publinged in our last issue, which Wo insite our realors to re-peruse, in connection with this questoon. In coachuston, we may remark, that in the precent unsettere : ondition of the case, it is highls deamble a common understanding should be arrived at between bugers and producers. sheepmasters, who prefer, from hamane or wher consulerations, to shear their sheep unwished, ought not, on that nceount, to be subjected to an mascriminate levelling dedtecton on ther rool. Certainly, if it is marketed in a dirs state, and haging charged with yolk, it is ouls far that a proportomate reduction should be submitted to. -cican cool being made the standard; but it serms to us that, from the rarying amount of yolk, or other impurity, induced by diferent modes of feeding, treatment, ic., any fixed rule of shrinkage. like the present one-third, fails to meet the imperative requirements of ahe case. No one crer thinks of making a fixed deduction in the case of other farm produce,- on foul sced in whent, for instance, or uscless weeds in hay. The price is invariably contingent on its quality, and the amount of foreign imparity mixed with it,-the best market price amd sample being the standard of comparison We contess ourselres unable to discorer any reason why wool should not be subjected to the same conditions. Were tha coute adupted, we lehere that the exisung dificulatesbetweca buyers and producers would be practically remured. The present arbitrary rule of one-third, howerer, appeirs more like an atteant to coerce those gromers into the adoption of sheep washing, who behere they are cunsulting the wellare of thear flochs, and comequentig their orn, by abohehng the practace. We hare vur readers to form their own judgments on the case, and in the meantume tee will be ghad of that upinions respect ing it.

## Sneep Shearing.

This operation, thlhough two often lighty estermad and ruckles.iy ereruted ia in reaity, one of the must artistic that the agric'.lturist has to perform lew things exlibit the profossional taste, shill, and kindly beart d care of a inan more favourably than a sherp, whose flece has been clovely, neatly, and uniformby remured, without injury to the kin of the animal. On the other binn, nothing is more discreditable to a sbeep own $r$, than to sec a poor unof fending animal, turned of from the shears with some purtiobs of i - carcase nearly bare, as if a bungling bather hath oparatel wih a bat razor, and other portions curcred with wool an inch long, as if an indifferent praning finife bad been emploged; the ill used creature bleating piteously with the pain arising from numerous gaping incisions, the result cither of culpable ignorance or of brutal carelessness. This ricture is by no means too higbly coloured. We have often seen animals that might hare answered for the original. Shearing is not unfrequently undertaken by persons who lave had no previous instruc tion, and the torture to which the poor sheep are occasionally subjected, by men of coarse minds, can be more easily imagined than described. $\Lambda$ terrifed sheep is chased ronnd the shearing enclosure, unmercifully seized by the wool, and dragged to the re quired position, and then, with the four legs bound together, the wool is literally hacked of its back: Now it should never be forgotten that in every operation where sheep are concerned, the beluariour of the operator should be characterized by that quiet gentleness of action, which is tho distinguishing
feature in the nature and disposition of the animal. Fisen laughter and loud talking should not be permitted; while, nbove all things, it is incxcusable-it is positirely barbarous!-to seize, or lift sheep by their Fool. In some instances, theskin has been absolutely torn from the flesh by this cruel procecding, and, in all cases, it hurts them exceedingly. This, to a reflecting person, must be selfecident, but if any proof be needed let the sceptic try the experiment for himself, which he may easils do, by being suspended for a brief time by the hair of his hend. Sheep should alwass be calught by throwing the hands about the neck, or by seizing one of the lind legs above the hock. In lifting them, place both arms ound the body close behind the fore legs; or stand sidewass and place the arms befure the fore legs and behind the lind legs, respectively. Again, the process of binding their feet logether is cruel ; and exhibits a helpless, awtimard incapacity in the person doing it. It is, as we hope to show in this article, quite an unneceswary preparation for shearing, and tends to lower the status of the workman, and the dignity of the art.
Presuming, then, that the weather is dry and warm, a conrenient covered building,-say the barn,should be prepared for the shearing. It is desirable to diride the space at command, into tro unequal portions; the smaller and better lighted being used by the operator; while the larger area will contain the sheep, keeping them cool and under corer. A covering of clean wheat straw should be strewn over the entire floor, to the depth of about three inches, thus rendering it more coinfortable for the shearer, when he kneels, as well as for the sheep when lying prostrate. In order to preserve the flecec, in process of remural, from strant, chaff and other impurities, which would otherwise adhere to it, it is desirable to hare a piece of cans.as, or a horse cloth nailed tight to the floor, over the straw, where the shearer is to operate. As shearing is dirty, and at the same time, bach-breaking, heating nork, it is adrisable that the shearer shumb be equipped in his oldest clot.es, uofing has cuat, and of agrecable, his hat; with his shart slees es turned up abuce the elbors. He shonld Whe care to be provited with a pair of good, sharp shears laving long blades, and a .pring not too strong, or they will weary his hand. Shears are sharpened los a rag stone; and when not in use their points ought to be held together by a ring of leather. In using them, a new beginner should be particularly c.reful to heep the points clear of the shin, or they $\pi$ all must certanaly inflict a crucl gasb, or run into it, before lie is arare of the injurg he is inflicting. The hand, holling them, should be kept low, the broad part of the blades resting on the skin, while the clips shoull be made short and frequent without bringing the points nearer, where the rool is long, than an inch apart. The form of the animal, it is obvious, prerents the possibility of uniting long clips with good work; and it is certainly preferable to haro seemly work, with the flecee uminjured, even though the operation is not quite so rapidly exccuted. Presum. ing the shearer to be right banded, the left hand is constantly laid on the skin, close behind the shears usually, to tughten it moderately and thereby prevent laccration.
Every prenaration being made, and a sufficient number of sheep housed to keep the shearer emplog. ed for the day ( 15 or 20 for a moderate or fair hand respectively, and less, of course, for a beginner), he, or his assistant if he las one, proceeds to catch a sheep in the manner already described, and, picking off any bits of straw, or dirt he may see, places the animal on its hind quarters, on the sheet or clotb in the position indicated by our first illustration. The shearar rests on his right knec, and leans the back of the sheep against his left leg, bent. Taking the shears in his right hand, while using his lef to keep up the animal's mouth, he clips the short wool in front of the neck, afterwards passing down the throat and ireast to ths belly. Ife next places the

forelegs under his lef arm, and shears the belly across from side to side, down to the groins, bares the scrotum, the insides of the thighs, and the sides of the tail, constantly using his left hand to keep the skin stretched, as before directed. As a large portion of the rrool clipped in this position is short, it is audisable to use the points of the shears, holding them nearly closed, and entting only with the exteme tips.

The second position, as shown in our next illustration, is gained by relieving the forelegs, and gently turning the sheop on its right side. The shearer now rests on both knees, and supports the animal's right sboulder upon his lap. With his len band supporting its licad, be first removes the wool Irum behind the crown, then round the back of the neck to the top of the shoulder. He nor gently places its lead and neck under bis left arm and commences to remove the wool from where it was left in the last position, to the middle of the back, all durn the left side to the tail, which he entirely bares in this stage. Our illustration exhibits the proper position of the annnal, and the hands of the shearer, at the point when he has reacled about half way down the back.


The shearer, still continuing on his knecs, now turns the sleep on its left side, having previously removed tho loose part of the ficece to prevent the animal from lying on it. He now places his right leg over its neck, his right knce and too resting on the ground on cither side, in the position shown in our next illustration. Me thus kecps tho head down without preventing the respiration of the animal. Beginning at the shoulder, where he left off in the last sta, je, jo proceeds to remove the feece from the right side of tho back bone, slecaring towards the belly, across the whole sido to the tail, the left hand being at liberty during tho whole prosess to adjust

thu skin conveniently. The sheep is now froed from the fleece ; and, in assisting it to rise, care should be taien that its feet are not entangled, or it will completely disorder the fhece, as it bonnces away from the strange ordeal, to which it las becn subnitted.
The newly-clipped slecpp should appear like our next illustration, with the sbear marks runaing in
erery portion restored to its natural position; while impurities of every kind are carefully remored. The side marked 1 is then fulded orer 5 ; and, in liko manner, the opposite side 2 is folded orer 6 . The Ileece is now tightly rolled up; begioning al tho breech 4, ending at the neck 3, which is slightls drawn out and twisted, to form a band. This band is onco wound round the flecee whero it is fastened, bolding it tocother in the manner shown in our last illustration,


In this form, wool may bo conveniently lifted and carried in a sack, vr box, to market without oxciting any apprebensions of its being disordered when it arripes there.

parallel bands, or futings, round the body, from the neck and counter $a$, along the ribs $b$, to tho rump $c$, and down the hind legj. When the stripes, or flutings, coincide aeross the back, and care and tuste are exercised in rounding the shear marks on the neck at $g$, at the change from the counter to the body above e, and in masing them run straight down from $c$, to $f$, as far as the wool extends, there are few objecto more graceful and comely than a sheep, in good condition, su clipped.
Foldang tire Woot.-The feece just remored is spread inside downooards, to its full extent on the shearing cloth, or a table, as in our illustration, and

zas Tho Northern part of Brant Township is at present infested with mad dogs, which have bitten sereral pcople, besides a number of catlle and sheep. -Ex.
Goon Faeece.-Mr. Joseph Calvert of Jarvis, clipped cightecn pounds of good clean wool from a thoroughbred Leicester ram, two years old, on the firgt day of April last.
Woor, in London.-The London Protolype of Monday says :-"The firstload of wool on the London market came in on Friday last, and was bought by Messrs. Myman \& Dunnett, at 37jc. per lb. It was ol arerago quality. On Saturday sercral loads wero in, all of a common tind, which broughta similar price."
A Mesuy Fieece.-On Friday last Mr. Skinner, of London township, clipped a sheep on the farm of the lato Samuel Peters, Esq., the flecce weighing seventeen and a half pounds. The above nnimal is of the Leicester breed, and it is expected will bo exhibited at the coming Provincial exbibition.Iondon Prolotype.
Live aid Dead Weight is Siteer.-Tho English rule is to weigh sheep when fatted, and diride the weight by seren and call it quarters. Thus, a shecp weighing one hundred and forty pounds would gire twenty pounds a quarter as the dead weight. If the slieep are in good condition, this ralo is sufficient for all purposes. Foor shecp will fall below the mark, and oxtra fint ones go ovite it

"Queen of Athelstane."
We have mach pleasure in announciag to our read. ers, that on the 3rd ult., this celebrated Sbort Horn cow, the property of the Hon. D. Christic, Brantford, gare birth to a fine beifer calf hy Next of Kin" (20405). Wo learn that the calt has been named "Orown Princess of Athelstane." a title which is pecaliarly appropriate, inasmnch ns Queen of Athel stane possessecs a large share of the blood of the celebrated buill "Croma Prince" (10087), the property of that most diatinguished breeder-the late Mr. R. Booth. "Nezt of Kin," siro of "Cromn Princess," is a son of $\mathbf{M r}$. Douglas's prize con "Rose of Sbaron," of Mr. Booth'a "Mantalini" tribe ; sho was got by " Heir-atLam," (13005)-a son of "Hopewell" (10332) out of "Birthright," a grand danghter of the celebrated cor "Bracolet." "Next of Kin" was the winner of the econd prize at the Mighland Agricultural Society"s Ohow, at Kelso, in 1S63. In 180t, he won the first prize at tho Highland Society's show, at Stirling. beating "Baron Crossley," the winner of the first prizo in the jearling class, at the Rogal Englist Society's show, at Newcastle-on-Tgne, in Julg, 1861.
It may be well to nots, in answer to some objertions mado to "Quecn" at Ilamilton last Fall, that she hat bad tro liring and vigorous calres in eleren months and three dass. Sho was fire years old on the 29th of April last, and has giren lirth to thre $e$ calres, riz., "Princess of Athelstane," "Crown Prince of Athelatane," and "Cromn Princess of Athelstane." Her dam "Playful," last summer, in her fifeenth year, bad a calf; sho has been a regular breeder, and her produce, with one exception, hare been distinguished animals. Among them may be named "Hiawatha" (14705) (the grandsiro of the celebrated bull "Forth")-"Jeany"-"Lady of Athelstane"Queen of Atheletane, \&c.

## Who is the Breeder?

Tak skill and persererence required in the inprover of live stock, scarcely admits of being orerrated, as the history of all our improved flochs and herds clearly testifies. But it sometimes happens that the mera ouner of a superior animal gets, in pablic eatimation, the honour which rightly belongs only to the actual breeder. Our ege caught, the other day, the following paragraph from an old number of Bell's Weekly Aressenger, which we commend to the atteation of our readers :-
" 3y long established custom, the party in whose possession a short-horn calf is Lorn is said to be the breeder of that calf, although the dam may have licen the property of annther person even up to the very day of calring. All the credit of having bred the animal is claimed by the dums ath onars, lat aid the merit of haring bred the anmal is cleariy the to another. An outlay of money avale to secur. the former; but the latter is the result uf care, thinght, eagacity, anxicty, and experience. It is comuribabice that a man of wealth should purchase fify cuns of great value, each in calf to some distungushed bull (a Booth bull, for instance), obtained lig hre, at a distinguished price; and all withn a fow wecks of bringing forth their offsprings. The cows in duetime calre; and their produce, the consequenre of another man's capital and judgment, are recorded in the Ihrod Book, nat to his honor to whom, in fact, honor alone belongs, but as memorials of the breeding shill of one who may possibly possess no breeding skill at all. and whose part in the transaction sas sumply that ot arranging a pecuniary inrestment. Ithe real breeder of a calf is unquestionably the person who brings the sire and dam together; and yet. arcording to orthodox asage, the place of calving constututes the criterion. We saggest no alteratuon in the ordinary method of proceeding ; it is perhaps ns good as any other; but our readers Fill perciero that it ronders the Herd Book a less failhful exponent of the history offacts than it wonld otherwise be, and very frequently of facter than it wond otherwise be, and rery freq

## Live Hoga and Dressed Hoga

## To the Edifor of The Casida Faruzz:

Str,-Live hogs weighing under 200 lbs ., were found too thin last scason, and particularly was this the case with the coarse breeds, which only become fat when very large and heary. Tho popular, small, nad medium kinds would, begond question, prore most proatable to feed, and greatiy preferable in all other respects, 80 far, at least, as the English market is concerned, for cither summer or rinter business. Within the last fer rears Canadian bacon has risen immensely in estimation with English dealers. Still tre occasionally hear complainte against the general mode of handling and curiag pork, which at present remains in fashion in this country. Tho following extract from an Englioh letter may serve as an example :-
" Literrool, 29th October, 1864.
"The great obstacle in the wry of high prices being giren for Canadian bacon is its dark color. The meat is most excellent; and if jou can arrange to hare the hogs killed on your own promises, nnel sal ted before the meat is touched by frost, we feel sure an extra price rould be made for it. Our impression is that the dark color is caused by curing hogs which hare been frozen.'

## GILLESIIE \& Co.

It is to lo hoped, for the adrantage of all concerned, that farmers will find bog feeding pay, so that there may be a steadily increasing trade in pork. such as will attract attention and large capital to the Prorince. The present price is, at all erents, sufficiently encouraging, and it is likelg to remain at a high rate up to the fall, if not through the winter.

Hamiltod, 11th May, 1865.

## How to Choose a Oow.

On this sublject, the Working Furmer says:-"There is alirays some risk in buying a cow, of whose prerious character and history we know nothing, for there are no infallible signs of excellence. A rougb coarse, ill-sbaped cor is often a noble milker. Iet there are a fer points, generally agreed upon by experienced farmers, which it is well to consider before purchasing. A small boned head and light borns are better than large. Long legs make too wide a gap betwixt udder and milk pail, and long legged cors are seldom quiet feeders, but wander about 100 much. A slender rather than a thick neek, a straight back, wide ribs and broad brisket, are to be sought for. The body of the cow should be large in proportion to lead, neck, and legs, though not excessively large; and the hind quarters if large out of proportion indicate good milking qualities. Me duin rized cors, all things considered, prove the best milkers for tho amonnt of food they consume. The color of the hair has probably nothing to do with the milking qualitics, and good looks should be regarded but litele in purchasing dairy animals. As to the culur of the skin, abright yellow, approaching that of gold coins, creamy color within the cars-this and good rich milk aro rery apt to go together, and. Whithal, a boft flexible hide, loose over the ribs and rump, is also to be eonght. The udder should be large, soft, and full of teins, which ramify orer it with full sized milk reing stretching forward along the bellv, and the teats be large and not crorded together. Test the cov's disposition and enquire abuit it. Irritable and ners ous cons are unpleasan tu hiande. and almost almays scanty milhers. Sume thing can lie ascertained from the looks and motiona Lavge, mild cyeq, easy guict motions when driven and gentleness when bandled, indicato good nature. What lutchers term 'good handling' is an important qualus in a mulch curi, for it indicates not onls goot unlhing propertucs, but easy fattening, when service: in the dairy are over"

A limp which Cattie can work thexieines. The Prototype aays a Mr. Cousins, of London, has insented a pump log wbich cattle can water themselres wrhout liuman nid. The water is fored up by the seeght of the anumal operating on a platform which yinhs down a certain distance by its weight, causing the water to rise in the pnmp and to flow out to the extent of throe pailafol. As soon as ono has slaked its thirst, another takes its place on the platform which brings up anolber mpply, nad so on till nil the flock are wate' id. This 35 a labour-eaving affair, certainly.

- "Well, John, horr mach did your pig Felgh ?" It didn't Feigh as much as I expected, and I alwas thought it wouldn't."
Moo-Pens.-"S. Massey" in the Co. Gent. gires the following caution:-"I would say to all persons intending to build a new hog-pen not to build a granary eror or adjoining it, as I hare hinown two cascs where grain stored in such places has become so impregnated by the cmariun of the hoge as to bo unfit for human food, and I doubt the propricty of making hogs ent grain so saturated with tho steam arising from their Fret and warm apariments, and $J$ doubt if porl. thus faltened can be at to eat, in auch damp and dark rooms, where the sun and winds haro no purifging influcace. A hint may be sufficient."


## uat tyalry.

## Scale of Prices for Factory Oheese Making.

A number of plans lave beon suggested to get at some scale of prices for manufacturing cheeso at factories, that would be estisfactory to both patrons and manufacturers. Tho scale adopied at the Ilerkimer County Union Factory appears to have considerable merit. We do not remember to have beard of any other factory making rates on the same basis, and therefore gire it for the consideration of those intercsted in this matter, at various faclories.
The price receired for manufacluring depends not only upon the sales, but the number of cous from which the milk is delivered, thus making it an object with the manufacturer to produce cheese that will sell high in the market, and for farmers to delirer milk from a large number of cows in order to reduce the rate of manufacture.
The price starts at 10 per cent. on sales for 400 cors, and falls $\frac{1}{2}$ per cent. for every additional hundred cows, as follors:

$$
\begin{aligned}
& 400 \text { cowz } 10 \text { jer cent. on bales } \\
& 600 \text { da } 9:- \text { da } \\
& 600 \text { da } 9 . \\
& 700 \\
& \hline d a \\
& \text { da } \\
& \text { da } \\
& \text { da }
\end{aligned}
$$

At this rate 1,000 cors would reduce the price of manufacturing to 7 per eent. on sales, and if cheese gold at 15 cents, would be 81.05 per hundred. At 103 cors, the sales being 15 cents per pound, $\$ 1.50$ per hundred would be the price for manufacturing But in this case, alloring the cows fo produce on an arczage 100 pounds of checse cach, the gross receipts for manufacturing would be $\$ 1,600$, while the 1,000 cows at 7 per cent., would amount to $\$ 2,800$. If checse should drop to 10 cents per pound, on the abore plan, the price for manufacturing for the 400 cows Fould be $\$ 1$ per bundred, while for the 1,000 cows tho price pould only reach 70 cente. In view of the unstable condition of the cheese market, the ahove scale of prices scems to be about the fair thing.-Utica Weckily Mewall.

Chear Foon for Calves.-A good deal has heen said as to the best manner of raising calves. Milk is an expensive food, but for a timo at least it must be used, as thers is vothing that can be se well emplosed in the early life of the calf. After weaning from milk o whey, ne are informed the lest results are obtained by fecding the sugar beet. Cut in thin slices, they soon learn to eat the bects, and become so fond of them as to cat with a voracious nppetite. This kind of food makes them sleck and fat. It is a cheap food and there is no danger of overfeeding. Where there are several calves together, of different ages, the younger will learn to eat them from tho older, and thus they can be often fel at a very early age. Ono point should bo observed in raising calres, which has not been generally noticed, and that is that the calf ought never to be allowed to suck. After the calf lias heen cleansed by its mother, remore it at once, and feed by hand. It will thus be much casier taugh! to drink its milk, and, never laving learncd to sack, there will be no danger of its doing 80 when turned out to run with the herd. There will also the less trouble of calves, when together, sucking each other -a bad labit which often injures their thrift. When the calf is immediately remored, as above recommended, the mother sooner forgets it, and there is much less trouble on this account. We have heard some insist that calres would not thrire 80 well under this treatment as Fhen allowed to suck for a few days.Having repeatedly tried both methods, we hare become satistied that this jdea is a mere whim, ns the calves uniformly do better that are never allowed to suck. We suggest to those about raiting stock at this season, if they have as supply of sugar bceta, to try them as
Ution Io
Iterall.

## Xitteritury getparturant.

## Cattle Poisoned by Eating "Splashes" of Rifle Bullets.

The following parliculars were communicated to the Vetcrinarian, by Mr. Broad, Vet. Surgeon, Bath:
"On February 15th, 1864. Mr. Whito called to consult me in reficrence to his cows, one of which had dicd on the lst, and nnother on the 1 th inst. These animals, with several uthers, had been falling off in condition forsercral months yast Mr White lironght wilt him, one of the rusiculum of two cows, together with a quandity of bullet splashes, whech the butcher had accidentally found in the riscus. The dirst cow that died was not examined. Upon enquiry 1 found that the cows, during the summer montlis, hat been pastured in a meadow in whele some ritle butte are situated, and that they had nerer since done well. Mr. White immediately, upon finding the lead, sus pected that it was in some wiay connected with the death of the cors. The stomach and contents were
laid aside for subsequent, examination, and I was reguested to risit the place, and further investigate the case. I may here stato that Mr. White rents the farm of II. D. skrim, Esq., Who kindly allows the lat, 2nd, 14th, lith, nud 1sth Somerset rilles, and also the militia to practice at the butts.
" lipon inspecting the other cows, I found them as Nr. White lad described, to bo moping about, and evidently suffering from some chronio impairment of bealth. They had a somewhat vacant expression, but there were none of the ordinary symptoms of lead poisoning present, such as colic, paralysis, loss of appetite, dic. On risiting the ground, 1 found a great deal of lead sprag all around the butts, and some eren at a distance of two or threc lundred yards. One important fact which I clucidated was, that the butts had been moved forward last summer, some distanco from a bank, and a more sheltered position. This bank had in a great measuro preTented the eplashes agiog over the deld, a fact which will to some ertent account for animals not haring been affected before, as thero has been shooting going on fur years."

## Choked Cattle.

Josman Alifs, of Rolling Prairie. Wis., says he has relioved cattle that had swallowed things, that defied all osdinary attempts at removal, by the use of the following means:-Take a fexible stick about the size of Jour finger and place upon the square end a ball of yarn, the size of a largo hen's egg. Cover orer the ball, lapping up on to the stick, with a thin piece of calfakin, beld in its place by being wound suugls to the stick. Grease the lesther, and it is ready for use. Throw the nose and licad up, by ting, or by
the aid of assistants, and push the ball down the throat. The bid of assistants, and pushithe ball down the throat. throat, or cesophagus in tho beast. When it meets with the obstruction, it becomes flattened, fills the carity, and drives the obstruction before it. The stick beiog fexible, no harm results by the struggling of the animal. Says, he relieved a cow for a neighbour, in a fer moments, after they lad striven in vain a whole half day, to remove a potato, that had lodged in her throat.

## Tape-Worm and Measles in the Hog.

 -o the Ellor of Tue Canada Eahyer,Sir,-It occurred to me while reading the objec tion of Dr. Cobbold, to the use of town-serrage as a dressing to fields, in jour arliclo on "The Serage Question in Britain," to give sour readers a mure detated sketch of the tape-vorm in man, of which thero are two kinds, the Tania Lata and the Tania Solium. The former are often 20 feet long, and some hare been seen over 100 fect. The latter have been seen 600 fect in length, and are much more annoying and dificult to cxpel. These worms have a square flat head provided with four suckers, by which they are attached to the intestines. The rest of the body consists of joints, each one of which is an independent hermaphroditic animal, capable of producing millions of ova (eggs), which are continuallg discharged with
the faces from tho human body. Tho hog, from its grovelling propensities, manages to swallow more or less of them. Being very small, they pass uninjured through tho processes of mastication, chymification and chylification, and are thon taken up by the ab sorbentr coter the circulation, and aro inally depo-
eited in diferent parta of the membranous and cel-

Inlar tissnes of this creatire. Once there, they are soon hatched and surrounded by a cyst, they become called mrasies in the hog. Itioe all tho Entozoa (intestinal worms, 18 species atlack man.) they must cxint in at least two kinds of nnimals. In this caso man is the viclim, for any person eating of pork so affected and bally cooked, is certain to have the creature assume the perfict form in his intestines. From what has been satd, it is evilent that a person having one of theso animals in his boily may infect a whole necighbuurhood. It is well linown that butchers, Who are in the h.obit of cating alines of ran pork, nre aubject to tbrac parasites Theg live by nbenrbing nonrishment through their boulies. Tho best remedy for their expulsion is perhaps ell of turpentine, in from 1 to 3 teaspoonfuls, floating on water, in an emulsion with macilage, or mixed with the solk of an cgf: (equal parts.)
Sonth Finct, Co. Stormont.

## Ehe giniry.

## Apiary in June.

Jint is the : lsarming monith in the ipiney, anil at least one new colony should be expecied from cacls oll stock. A hive from which no surarm issues should be examined. If ther lave refused to leare for want of a queen, they will usually be found weak, when it is best to drive them out and unito then with some other stock. If tho colony is strong, a ner queen, or a cell containing a queen, can bo introduced from some other hive. If a hive has failed to swarm from discased brood, drive them into an empty hive to commence ancw. When two swarms issun at the samo time, they are apt to eettle together. To prerent this, sprinkle the bees of one hire with water, as they are about to start, which may be usually discovered by the commotion about the entrance of the hive, a fur moments before flging. The eprinkling will delay them until the first smarm can be hived. The first issue from a hive is usually large enough for a good colong, the second half as large, the third a quarter, consecpuently irro of the second, or four of tho third will be needed to make a swarm
equal to the first. I: second strarms issue late in the month, it is adrisable to make one strong stock by uniting twe. It can bo readily done within a day or two after issuing. It has teen proposed to prevent the issuing of a second swarm by refurning the old queen to the live. This would only be likely to end in one of the following results: The queen might destros all the rogal cells, and go on laying eggs for three or four weeks, until annther snearm had matured, then she would issue, leading out a sceond srarm. Or sho might learo tho roral cells undisturbed, and issuo tho next day, taking with her a small swarm. Or sle might entircly disappear withont being heard ofagain ; at any rate her presence would not be likels to prevent a second swarm Prevention can be accomplished in the moreable frame hire. by cutting ont the queen cells after the first srarm has issued and after the young queen has taken her piace, and not allowing any such to bo profected. If $a$ second srarm can not bo well disposed of otherwise, return it to the old stock. Hive it first, carry it near the old stind, and let it remain until nert mornigg, when all the queens lut one will usually bo destroyed, as well as the fupernumeraring in tho parent hirc. Shake out the firarm, and find and secure the queen; then put a ferw bees at the entrance, with something on which the rest may creep there, and thes will all readily enter. All new strarms should be kept sluaded during the milille of the day. When bera cluster in a crowd at the ontside of the hire, it is time to sidd boxes to receive surplus lioney. If the honey is intended for home eonsumption, a rood box will be sufficient for marketing, those with glass sides are preferabie They should be not more than fire inehes decp. The bers will work in them moro readily if pieces of niue white comb are placed in the top. They can be fastened by dipping one edge in melted beesmax, and applying before it cools. Old colonies should be induced to birgin in the boses before they swarm, as the bees will be more likely to finish up the work, than to begin after swarming, especially if the colony bo not very strong Renove the looxes as soon as filled. It is not usually advisable to put on boxes immedrately siter hiving; the bees are likely to rear brood and store bee-bread in them. It is safo to put them on aftor the strarm has been lived three or four days.American Agriculurist.

## (Entamolagy.

## A Turnip-eating Caterpillar.

Tur: moths recently forwarded to us by Mr. George Bruce, Narkhatn, for filentidleation, aro specimens of Ccramica cxusta, Guénée. The information nfforded by our correspondent is very interesting and useful ; for although the perfect insect has been deseribed hy M. Gutince, its carlicr stages, and the food plant of the caterpillar, have been unknorn to science. It trelongs to the family orthosida, the members of which are noted for the rarages they commit in the regetable norld. Their caterpillars are usually regularly cylidurieal in form, without any hairs or protuberances; they lire either upon trees or low plante, and generally remain in concealment during the day. Those of the nsect before us are said to be of a green colour, varying from an inch and $\mathfrak{a}$ lsalf to three inches in length, and to andergo their transformation in the earth. They feed upon the turnip, to tho crops of which they were very destructire, last gear, it the neighbourhood of Marlitam. The inost curtain mode of preventing therr ravages is to go round the plants early in the morning noll crush under foot all the caterpilhars that can le found, looking underneatis the leares as vell as abore them; by so doing, not only will the plants in the feld be saved, but, prob ably, many thousands in future gears. The use of salt, lime, ashes, or other applications for the destruction of caterpillars is of very loubtful cfficacy, the most certain and by no means lifllult remedy is to gather them by band and destroy them cither by burniag, or crushing under foot. We subjoin a description of the perfect insect, that our readers may be enabled to identify it :-
Fore wings, reddish brown, lighter in the inner part of the wing, and nimost yellow in the lower part of the median space. The usual kidney-shaped spol hardly visible, but forming a yort of dirty yellow, or gray blot, edged with black. The sub-terminal line (that near the outer edge of the wing) is only indicated by some yellowish or grayish atoms. The fringe is reddish brown. Hind wings white, with a darker fringe; their underside has a dark central spot, and the front dusted with brownisla scales: that of the fore wings being almost entirely corered with dusky atoms. Body beneath, legs, head, and thorax, covered with brownsh hairs; abdumen ash-colored. The wings expand an inch and a half; the body is a little over half an inch in length. This moth is wot uncommon throughoit Weatern Canada.

Wongs and Insects which Attach Beetrioot-The Central Society of Agriculture of the district of Calais has offered a gold medal for the best report on the worms and insects which attack beet-root, and on the lost means of arresting their action.
Caterrilain Trale- A gardener at Glaggow practises a mode of destroging caterpillars which he discorered by accident. A piece of woolen rag had been blown by the wind into a currant bush; and when tahen out wis found corered with the leaf-deronring insects, Ife immedi.atly placed pieces of woolen cloth on every bush in his garden, and found next day that the caterpillars had unirersally taken to them for shelter. In this way he destruys many thousands evary morning.-Bell's W: 3fess.
The Spider and the: Wand.-I ouce save in a hothouse in Shropshire a large female wasp caught in the irrcgular web of quite a small spider; and this spider, instead of cutting the web, most persereringIf contmued to entangle the body, and cespecially tho winge of its pres. The wasp at first aimed in vain repeated thrusts with its sting at its little anfagonist. litying the masp, after allowing it to struggle for more than an hour, Ikilled it and put it back into tho web. The spider soon returned, and an hour after wards I was much surprised to find it with its jaws buried in the orifice through which the sting is protruded in the living wasp. I drove the spider away two or three times, but for the next twenty-four hours I always found is again suching at the same place. The spider became much distended by the juices of its prey, which was many times larger than itself.Darnin's ,Iournal of Researchos.


A Fumbs Bath Wartid. -"R a Y "Waristill" makes the following earuiry: "Con yout or some of gour readers suggest a goold phan fir the cometrie. tion of a family bath:"
Tar Finas Mus, Evqutar-A enrerepnenlunt slat. 9 in repls to an article signed hy Jolun Duncan, of Moore, Co. of Lambton, nod tradel "Finx Mill Wanted," that he mrote to Mr. Duncan upmisis of tro weeks ago, refuestion some iletails. as specificd, but that ho has hasd no reply. l'robably the letter bas been mislaid in the l'est omice.
 Subscriber" makes the following enquiry: "I nish to know what horse turnip hoe is the vest, and if any are mado with a miniature sorwegian harrow attached, to tear out the reeds that are cut up by the boe; where it can be got. and the price. Would you or any of the readers of Time Clinan Fimamin. form me?"
To Safe Cors zron Croms--" W. S.," of Nenton Brook, rolunteers the following adrice to corn grorscrs: "If you wish to sare your corn from crows and other birds, take 3fay apple leaves and boil them. Take out the leares and let the watct coul, then put in your corn, and let it remain all uight before planting, and rest contented for the result. .I have tried the process thirteen years with succers."
A Bus Nasasce.- 18 currespondent. wriliag fron "Browda Farm," complains of the annoyance caused by so many parties keeping worthess bulls, either running at large, or cloe in fields, wath bad fences, adjoining the road. Our correspondent suggests that some measures should be adopted to render the orners of such animals resputaitle for the monary they mas do to well bred cose, whe being drisen along the road.
Where Whatea Barlar msy be proctred.-In reple to the enguiry of a coriespondent in our uumber of May 1st, "J. R. S." writes as tollows:-" Winter hirr ley is raised to some extent in this aciehbourtoond but is more lisule to winter-kill than wheat. If your Lambton correspondent winh communicate with 'J. R. S.,' box 153, Woodstock. at the proper se2son. say middle of August, it is likely that he can te sumplied with good clean seed."
Lavgstrotis No. 2 Hires.-A correspondent makes the following enquiry:-"At page 139 lawt year, "Diogencs" says, he obtwined a copy of I.ansstroth and used his No. 2 hires. Will he oblige me lys saying how the fred bottom board of No. hive (deecrit). ed at page 3:2), is pat in, und what entrance is left?
 of c , as the front and rear duneusons are the sunce, this, allowing z for bottom board would leave a space of half an iach betreen the botom board and rear
Thomocol bred Sted horse.-.- D. Menomald Goderich, enquires as follors: "Cau you infrim m." if there are any thorough bred stud horions in ranala Fiest, and if so, where they are kept, and aho prie" of serrices? By thorougit hred I mean such horses as rould rank in the English Macing Stud Boos."
Liss. There are several, amone whirl we mey name - "The Tester,' mupurted from England in

 and the celebrated "I Bhak lionny."
"Charon," the pruperty of Mr. John Boulton and Mr. St. George, of thit city.
"Venact," the propurty of V Arbland, Esyy, of
Oshawa. Oshawa.
"Captain Buford," owned by 3ir J. Grant. of this city
We are unable to state the terms of service; but our correspondent may learn by communicating with any of the gentlemen named
 lowing hit of experienen:-"I set me hirh.ga in me band as carly as lean. and with not orer 5 c egsapice. When they il tich I put then unter a crate and feod them on cracked corn and wilk curds. and if I have mith curds enough 1 feed them on it altagether, and 1 hardly ever lose a young one When they are four weeks old I let them out to ehinf for themselves. The what ones sometimes hatela a second brood. Fiomr of mine have this year. If they lis thore than afieen eggs I set the balauce under hrns, and so I raised from six old hens ninety goung ones, worth now, at market prices, one humired and finy dollars."
Amonsss or "Agmolal."-J. h. Martin, Eaq., Darrister. Cayagu. Co. Haldimand - the gentleman who reccutly used the num if plume of "Agricola" in our columns-in responke to the empliry in our issur or May lat, Sirwards his real ndilessa as above, and adds: "I bate on hand, continually, numbers of farms for sale, in this county, at low rates ; though the change in value of Ainerienn monery is somewhat adrancur the priees. Fionha we be faroured by a good harrest, we hope for mach higher prices, which wonld make farms here very desirable and proitable invertments."
Deserfont Srein.-" Briar" mrites to us, on this subiect. as follors. " I 7 matistied that beets grown in Canada are culli.inent'y saccharine to mahe it worth using fir sugar or arrup making. I tricd a latle a ferr jears sinew by grating and expressing the juice. Not having any means of getting rill of the colouring, it mas nearly black and had the earthy flarour of the berd. I have latily brea informed by a l'russian im. migrant. that the saccharine matter may be easily obtained by boiling the roots. This method appears oo simple that 1 intend trying a small lut, and will give the result:"
Ihasd Iowra Stral Maclenf. -" Darid Messenger" writeq on this anhigery as follums. In gour last issur I nntime an enquity about hand power stumping machines, nat koowing gour wish to have any information in cumnection with agriculture, I beg to inform you that the finm of latterson \& Brothers, Iichmoml lill, make a rery nice little hand power etump marhine rapahle of extrating ang ordinary stmang, cither oak or pina. It is worked by two men, and can be casily carrical by them from tump to stump. I have dealt with the Mess-s. Patersom,and would willingly reconmend them to the public as agricultural implement makers."
To Disiolve hones for Mante.-- R. S." Amberst Island, writes:--" Bones are dissolved with sulphuric acid and watea Can you inform me of the proportions. de?"

Axs-In determining on any proportion, the strength of the acid nomits liability to adolteration must be consulered. l'resuming that ynu obtain it of average strenght we recommend yon to use one part by weight of water to tour of acil. The tempurature is immediately rai-ed to 3000 Falr. by this misture, whinh of roirre gratly assigts the prucess of decomposition. Perhaps the berst way is to atd the water to the hones before pouring the acil over them
Sew Reasias fur Dammu--" J. McD.," of South Fiarh, Co of Sturmunt, writes:-"As this is the spawin of the year when swarms of mosquitoes are tormentiag man and beast, day and night, it is a ma'ter of sume interest to farmers and others, who wish to enjoy themselves in the country, to knon of a reumely whil will, in a measure, put a stop to this plazir By thaking themselves acquanted with the histriry of these iusects, the remedy is plain. The mooiguito wina;s to the fanaty Culichta, order Dip. tria (tris winged), and like all insects, undergons seviral mutimorphoses before arriveng at maturity. In the carty sagag of its cristrnce, it ilites in pouls of nagnant waser, where they may be gnen in myriads, under two furms, the first elonzated, consisting of nine segments, and change therr skin three times. assuming the second or Lean-hite lurm, from which the perfect insect escapes By draining, $t$ e water is carried off, leaving no vools in which the larve can
be hatched be hatched

A Wurk on Canadas bmbas Wasted.-" in A. i"" "rites an follums:-" You wonld confer a havour if you would inform me, through your valunble paper. is there is ans standard work publishel, in Toronto. on Canadian biris nad there egge, or on the lattor only. If so, how can I obtan at ? Please answer as soon as possible, as this is the season for birds to build:"
Ass. - Thicre is no Canadian work publistard on the subjor alluted to. Audulon's celelornted work is. lowescr quite npplicable to this country, bat it is cost15. "Wilsons Anerican Oruitholoery' is a cheai" ocher work, but we do not hnow if it is kept in stock by Canadian loookseller3.
 in reply to a communication which appeared in our issue of May 1st:-"If that portion of the counly of Oxford travelled through by ' 15. . S S.,' be taken as a criterion of the whole, the sooner that very flattering title 'garden of Camada' is discarded, the better. But it shonta be understool by strangers, wat he who gare tue county such a nattering ilesignation, never saw that portion where ' 1 . C. $s$.' travelled ; and at that time it ras unselted. It is still tho wildest portion of the countr, being the latest occupicel, and rith a class who hare giren but hitle allention to root culture. I trust the remarks of your correspondent will avaken thent in this respect. Tho East Zorra Agricullural Society, with a ries to encourage this branch of farming, have gisen liberal prizes in cash, for the best turnips and carrots, judged in the fleld, for the last are years; and if 'W. C. S.' had ween present at the inspection of those crops, I think ho would hare admitted that reots are grown to a considerable extent, and are very much appreciated by the farmers of Eanst Zorra,-8till not to the extent they should le in a country liko Canada, where we have to use dry food so many months of the year."
 Vore? "- "R.W S." again propounds this question ns follows:-"The question, ' can a Secretary of an Agricultaral Society vole at a regular Board Mecting, was asked some time ago, and you answered; - most certainly.' Notwithstaming this, the question came up at one of our latr meetings, and at the request of one of the dircetors, was put to a wotw, before we should vote on another matter, and wearly all voted yea. Still wo would like you to give authority, by law or custom, so that it may be understood. If there is no authority to decide the matter, then the quicket it is done the better."

Ass.-The question has been answered fifty times in the anirmative. There is no direct statement of the fact in lar, but it is certainly implied and well urderstoni. In the consolidated statutes of Canada. Cap. 33. Art. 50 , it is enacted that "the snectings of the oficers and directors shall be heh. ©c."-and "at my meeting fire shall be a guturum." (olicers, it will be observed, are first named, and of course the Secretary is one of them-while any dive may transact bustues.
Tolbrafref stifen amo loosta.-" a Subscriber" writes on this subject as follows:-" Wo frequently hear enquiring for some process that will prevent stakes and posty from rotting, where they are sunk in the ground. The following, which I copy from an old file of papers, gives a method at once simple and cheap. and is worth a trial :-
"، Quite recently, whise walking in the garden with the Foo.. J. W. Fairfield, IIudson, N. Y., be called my attention to the small stakes which supported the raxpherry c.ans.s. The end in the gronad, as well as the part above, wid ay sound and bright as if lately made, but he infurined me that they had been in constant use fur twelve years. Saul 1, 'Of course they are cyanizel.' 'Yes,' he replied, • and the process is so bimple and cheap that it deserves to be universally known, and it is simply thes. Uue pound of blue vitriol to twenty quarts of waker. Dissolve the vitriol with boiling water and then add the remainder. The end of the stick is then dropped into the solution and len to stand four or five days; for shingles, three days will answer; and for posts; six inchen square-
ten days. Care is to be taken that the saturation takes place in a metal ressel or keyed box, for the reason that any barrel will be shrunk by the operation so as to leak. Instead of expanding an old cask, ns other liquors do, this shrinks them. Chloride of zinc, I am told, will answer tho same purpose, but the blue vitriol in, or was formerly, very cheap, riz. : from three to sia cents per 1b. Mr. Fairfleld informed mo that the French government are pursuing a similar process with every item of timber now used in shipbuilding, and that thoy bave a way of forcing it into the trees in the forest as soon as cut, cjecting tho sap and cyanizing it-all on the spot. I have not experimented with it, but Mr. Fairdeld's suceess ecemed to be complete. The process is so simplo and cheap, as to bo within tho convenience of every furmer, and gardener even, and I therefore thought it so valuable as to warrant $n$ special notice of it.-n. G. Pardee, in New Jersey Farmer.'"

Eyfects of Dechwimat Straw on Sueep.-A correspondent, writing from Co. Carleton, describes the symptoms produced by feeding his sheep with the cleanings of buckwheat, as follors:-" leeing rery short of sheep fodder during the past winter, and finding that my sheep eagerly ato the buckwhent stram, 1 kept it for them, and fed them chiclly on it, and they did well with it until the middle of March. I lad reserred the cleanings of the buckwheat as being somewhat better feed, and at this timo began to give them some. As soon, howerer, as they got this they were seized with an intense itching and a disposition to rub their heads, especially their ears and cycs. They did this so violentiy as to make themselves bleed, and I was afraid they would injure their sight. Their ears, instead of being erect as usual, were drooping. The lambs, which were then with them, but had been separated all the winter and fed diferently, weronotat all affected. I immediately stopped the straw and chaff, and gavo them all tho turnips they would cat, when they began to recover, and all but two that wero most seriously affected have now (guite got over the attaok."

Ass.-Readers of Tue Casada Farmer ought to be familiar with the effects produced on sheep by being fed with buckwheat chaff. If our correspondent refers to pp. 20 and 72, Vol. I., he may read details of symptoms identical with those above described.

Av Appreciating Subscriber.-In the communication appended, "R.W.S." rebuts one of the objections alleged against subscribing for agricultural papers; and points out some of the useful hints ho has derived from our columns as follows:
"In canvassing for agricultural papers I am often told as a reason why parties will not subscribe, tbat they 'print so much hambug,' thus saddling everything on the shoulders of the cditor, and ignoring the fact that the humbug generally originates with farmers themselves. For instance: a far' ier tries an experiment, it answers to his own satisfaction, and he forthwith transmits an account of the affair to an editor, vouching for its truthfulness, and of course it is published, though neither tested nor endorsed by the said editor. Another tries it, under very different circumstances, and it fails. The editor is censured, and tho paper condemned. I havo often failed to obtain the results predicated when testing various recipes, and other matters recommended in agricultural papers; but I sometimes get hints worth a year's subscription, in a very brief paragraph. No longer ago than last week, I opened Tas Canada Faryer and ono of the first items that caught my eye was a way to make ewes ofa strange lambs. I lost no time in trying tho experiment, on a cruel old ewo that had been tethered from 'tree to tree' for nearly two weehs, and all our efforts had failed in reconciling lier to tho imposturo; but as soon as her blood began to flow on the back of the lamb, and she got a chance to smell it, she was reconciled, and began to make a great fuss over it, after trying to bunt it to death nearly two wecks. I have given one simple instance of the value of an agricultural paper, but I could refer to dozens of very important articles, pab-
repay a year's anbscription, if acted on. Tue Fanmen is open lefere me at pago 130, and there aro two raluable articles following each other. If the alvice of 'llolly Tree' were carried out in reference to beautifying our homes, whit an influeneo for good, rould result therefrom, on our sons and duaplitors, and oren on ourselves, though wo may bo getting a littlo gray, and bowed down with hard work. Then hero is the arliclo on ' Eirly Pall Cultivation,' every farmer can find somo usuful tints in it, no matter what may be the natare of his soil. With my circumstances und experience, it accords most admirably but I forbear making any moro references, crery sub. criber can sce for himself, and those whom I would Fish to convince, will not bo likely to see it."
Procras and Resilts of Tunif Ccitime.W. C. S., of Haysville, gires the following details of the method ho pursues in cultivating this useful root crop. It is satisfactory to learn that our correspond ent has hat every reason to be satished with the results of hig labours :
"I lay on 30 raggon loads of dung per acre, ia the latter end of September, or the beginning of October, and plough it under as soon as it is apreal. If the land is in a dirty, grassy state, I harrow it when it is lry. In the spring I plough, or cultivate as soon as the weeds begin to grow, about the middle of June, then harrow, and roll with a heavy roller, sowing the seed the same day on the level, with a brush drill (made by Blatchford, Hassville, price $\$ \mathbf{j}$; it rows both carrot and turnip secd). I set the coulter of the drill 2 incles below the wheels, so that the seed will be deposited that depth under the surface. Sufficient oose soil falls in after the coulter to cover the seed I sow 2 lhs. of sced per acre. In sowing a largo breadth of turnips, it is better to sow the seed nt three or four different times, on account of tho hocing. In order to test the quality of the seed, take dive or six seeds, and lay them on a piece of stont wrapping paper, and crush the seed with a hard substance. the seed is good it will stain the paper over twice its size, ns good turnip seed contains 40 per cent. of oil. It will pay to grow turnips. Our turnip crop has averaged over 600 bushels per acre, for the fast fivo jears, and 1000 bushels per acre is not an uncomnon crop. Turnips aro worth 6 cents per bushel for fattening cattle, and that would give $\$ 30$ per acre for our turnips."

## The dianada djatuer.

TORONTO, UPDER CANADA, JUNE 1, 1865.

## Extract of Meat.

The price of fresh meat in nearly all the Euronean markets has been gradually advancing for many years; acd this has been especially the case in Greal Britain, whose immenso manufacturing population, in the varions busy hives of her commercial industry, require a large amount o: meat as well as of bread stuffs from abroad, to meet the constantly increasing demand for human food. Salted provisions have consequently been sent to these markets from those parts of the world where population is comparatively sparse, and the means of raising and fattening cattle, sheep, and pigs, aro abundant ; such as is presented by almost any considerable area of this American Continent, both north and south. Salted meat, however will only command an inferior price, as compared with fresh meat, and the expenses incidental to its preparation and freight must always be considerable. Hitherto the transportation of live cattle to distant markets has been found impracticablo, as has likewise dead meat in a fresh state. Tho British farmer has always reckoned on a monopoly, in his own markets, for fresh meat, how much soover his profits in home grown grain may be diminished by importations from abroad. It would now appear that this state of things is about to reccive a considerable nodification, and that fresh meat, in another and much reduced form, will be sent to Europe, from distant countries belonging to other continents. We will give our readers a glance of what is intended, or
illustration of the bencficent application of science to the most pressing wants of man.
About fourteen years ago, a German civil enginecr, George Christian Giebert,commenced belng emploged by the Brazilian Governmeat to construct roa ls, and while in that country he was much impressed at sceing vast hords of oxen slaughtered, principally for their hides and tallow, the floll being generally neglected and wasted. It naturally occurred to this obserrant man, what a blessing it would be if this wasted material could be transporied to the populous marts of Eirropean industry, where meat is generally so high in price as to necessitate a comparatively small consumption by the toiling and deserving millions. Giebert spent fourteen years in, apparently, unavailing thonglit upon this subject, till he met with a treatisu from the pen of that distinguished chemical philosopher, Baron Liebig, who had desoted much attention to the devising of means for extracting from meat its very essonce, and $0^{\circ}$ thus giving, in a small space, a large amount of nourishment. This he had actually accomplisher? ma'iy years before, but to obtain one pound of ensence thirty-tro pounde of meat are required, and, when the latter is 20 dear as it in In the moat prpulous countrics ${ }^{5}$ Europe, the transformation would be attended in no pecaniary ad vantage. Liebig, howerer, continued to cherish the hope that the time would come when his discorery would reccive a practical application. That aupicious day for the toiling millions of the old world has at length arrived; the engineer bas arailed himselt of the analysis of the chemist, and is about to afford another encouraging instance of the way in which the discoveries of science are sure, sooner or later, to confer great and lasting beneats on mankind.
"The two men," to quoto the words of a most interesting article on this subject, in the last number of the Pupular Science Reviev, "each farnishing tho completing circumstance which alone rendered the cherished plan of the other possible, discuss the mat. ter together. The one gives his scientiac knowledge, gives the result of all his examinations, experiments and trials. The other accepts this as atock-in-trado; he orders boilers, steam engines, and all necessary apparatus - has a plan for a building laid down, with storchouses and workmen's dwellings; and leaving wife and family in Europe behind him, starts off again, with half his fortune, for La Plata, there to put into operation, and carry out, the thought that Erst germed in his brain fourteen years ago, on the plains of South America. And so, God willing, we, in a month sitwo, shall have in our kitchens and hospitals the juice and essence of the strong oxen now feeding on the Pampas."
The mode by which this invaluable preparation is obtained is thus described: "From a certain quantity of fresh beef every particle of fat, bone, and tendon is carefully removed. It is then chopped up, and placed in a ressel, with a small quantity of water, in a water-bath, great care being taken to remoro the albuminous coagulation which forms, as well as any fatty matter, which may show itself. After a time a pale brown, thickish fluid, of the consistency of treacle; will be found in the vessel. This is pure meat-juice; the sap, so to say, of the licsh. It is then poured off, leaving behind all the fibrous remains."

It should be borne in mind that one pound of this preparation contains the essence of thirty-two pounds of beef. All the nourishing properties of the meat are entirely concentrated, and what remains is perfectly innutritious. This extract of meat possesses the valuable quality of keeping many years, without undergoing the least change. It can be kept in ordinary jars, simply tied down with paper, as with domestic preserves, and it is not liable to be affected by damp, or changes of temperature. It is stated, "that two pots had been kept ten years in a cellar, where, owing to the damp of the place, a furry mould had formed about them, and even on the edges inside,
thad tonched the e. rthenware pot, there was no trace of wouldiuces. - - One quarter of a teaspoonful of this juice, that for ten gears had beon barely corerol, with but a sheet of paper, tusted. when mixed with hot water ame a little salt, hibe delcions beeffea made that same moming." The exate proportous are, one-cighth of an ounce of meat cespuce, and mesistecnth of an ounce of common salt. This makes a ureakfast-cupful of beef tea. The extract admits of reaty and cheap transportation to the anost dishant places, and will heep in all chmates, -. the case of it weighiag lults. contains the essence of 3.0 O bs of bieat.
It is curutal that bereral cases of this essentec late alrealy been receired in England from Monto Video; and that a cup of beef tea, nade with half a spoonful of the extract, is quite delicions. It has a peculiarly fine, delicate flavour. The extract of the flesh of fheep is thengigt by some to be preferable to that of beef. Herr Giebert has at length got lus apparatus in full working order, and will be able to furnish $5,000 \mathrm{lbs}$. of essence per month.
This discovery, it is asserted. 'will canse a reronution in continental cooksrs, m wheh the daly plate of foup is considered indispensable. The meat which now is boiled, will then in many fanilies, be roasted ; and the soup will be made will a spoonful of the extract, and the usual culdition of regetables. This would le a gain in erery mag. Not only is roast meat nore palatible, but it contains a greater amount of nourishment than that which has been boited, in order to procure soup. When a goodsonp is thus obtained, the meat looses its malyamating propertics. They have been extracted fiom 1t. The usual boulli of the continent, which is mere fiber, supports and supphies strenglit only beciause the soup is caten with it. Without the soif. it would afforit very imperfect sustenance. Herci:a lies the great difference betwen boiled and roasted meat. The Einglishlmau cats his soup in his roast Uef.
The manafacture of the pure essence of meat aidmits of several most valuable applications, in the interests of humanity. The material, apart frobe its use as ordinary foud, among the myrads of workers in the ercat centres of industry, will prove quite a God send in our hospitals, and on board of slip, in long roy ages; and in fortresses, and in the batle tield, may do no small service in mity gating the suffering' imident to mar. In how many ways does scimee minister to buman welfare!
zet F. W. Stone, Issq, of Guclph, has been appointed to the racancy in the Buard of Agriculture. resulting from the demise of Col E. W. Thomson. The honour is richly deserved. ami the vacancy well billed.
Seens Recerrew. - Wie hare to ackuomedge the recript of a package of choire flowr-acole from Xr
 of regetable-seeds from Mr. J. A. Simners, of this city. They are somn in "good ground." in a place that we wot of, and we may lave somewhat to say of their guality, when the phants thry produce shall have come to perfection.
Peat as Feen - We learn from the Syracuse Journal, that an experiment has been tried on the New Yurh Central Railsus, in asing peat for locomotise rucl. A train of one car and a locomotire was run a distance of twenty milere o ansuming less than half a ton of peat, while the curs umption of coal for a simi lar distance is never lews than a ton. The peat was obtained from near Fultoi, Oswego Co., this State. There are 100 acres of $\mathrm{f}^{\mathrm{m}} \mathrm{m}$ in the beds.
Lexts Neterer-. The Miton Champion says Mr. Lendis Noonan, reatums uear Mhton, has on his phace a colt wath only three legs. The beft fore Ifg is catirels wanting. and has the appearaner of being tahen of at the shouhtr juca.. The shoudider bade, or to speak techncalis, the mapuia, is tilly derelopod, and in all other respecis the animal 19 perfect. It is liroly and in perfent bealth, hopping bristly abont, Lite a three legsed stool in motion. Mr. Noonam hat rofabed $\$ 100$ for the colt. Probably it wat oo bought up for exhibition.

## The Weather and Crops.

Ir is nors sumiciently far on in the sensoa to begin to indulge an somewhat coufident anticipations as to the present year's return for the labour of the ngriculturist ; and wo are happy to eay, that the tidings from all parts of the country, are of the most cheering description. The past winter was romarkably fituurable for fall wheat and the grasses, which whanco ed their :pring gruwth mosw sigorously, and at an carly date. Nothing, thus far, has marred the pro-peets presented at the beginning of the beason indeed, if we excepta few rery cold days, the weather las been carcmely propitious. The spring crups have leen got into tho ground in good time, and have wade carly and rapid growth. In some parts of the comitry there has been rather an excess of rain, rendering it dificult to get the land properly wothea, but on the whole, the spring of lows will take rank as one of the best we have known in Canada. Or course there are still contingencies and uncertainties enough to moderate expectation as to the coming harvest, still there is thus far cause ouly for encouragement and gratitude to the Giver of all good. We are pleased to notice less of a disposition to spoil a hopeful present, by the indulgence of apprchension as to the future, than we lave sometimes ubserved when prospecto were cheering early in the seasun. This foreboding teldency has carned for the farming commmity, a reputation for discontent and distrust of l'rovidence, of which it would be well to get rid as quickly as possible. It is of course unwise to be too sangmine concerning that which is yet dubious, but a cleerful, hopeful spirit, is at once the most wecoming for us to cherish, aud is the best incentive to earnest effort on our part.
Fruit promisea well. sn far ; indeed there is not often a greater profusion of blossom than we have beheld this apring. The country has been perfectly gay with bloom for some time past, making the fortunate possessors of orchards feel that their trees are worth ant a lithe for the beanty of their Rowering, as well as the sield of their fruit. Snall, as well as large fruts promse a fine return : currante, gooseberries, ratpoerries, dc., looking remarkably well. Rarely have we seen strawberries tirow up so large a quantity of flower truses as they have this yearThis is owing dombltess to the steady protection afforded by last winter's snow, and it suggests the adrautage of some artificial coreriug for this and other cloice fruits.
Owing to the scarcity of fodier during the past winter, stock, generally speaking, entered on the spring in poor condition, but the early bite of grass which has been afforded, has wrought a great change for the better. There is, we apprehenel, a dimination in the number of catte thronghout the country, in consequence of the large sales eniected last fall ; the prospect of a hard winter inducing everyone to sel all he posstbly coult. As the result, meat is high, and likely, many buyers think, to continue so for sone time.
Thus far the season has beena vers favourable one for dairy operations. Butter, of the best quality, and at reasonable price, abounds in our markets, and no doubt the manufacture of checso is going on with viguor, both in large and amall dairics.
We are very ancious to bo able to kecp our readers informed of the state of the weather, and the progress of the crops, and shall most thankfully recrive communications on this subject, from all parts of the country. Last 3 ear setcral correspondents regularly sent us notes from their respecture anighhourhonid, and we hope thery will resume the tash The Secritarics of Agricultural Societine, espubuils, are heruby ruinciced to forkard us all information of interest, respecting the agricultare of their destricta. If Tine Cakada Farmar is to bo the means of making the rarious parts of tho country acquanted with one another, our readers must sond lus atems of farming nows. We trast ther will do ao

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## Meeting of the Board of Agriculture.

Agmeli,tiral. Ilali, Tunomto, May 1lth, 1865.
Tho Board met this day, in accordance with adjournment from previous meeting.
l'mesevt. - IIon. D. Christie, Vice-l'resident; Mon. II. Rutlan, Hon. G. Alexander, Hon. A. A. Burnham. R. L. Denisun, I'rufessur Buchland, WI. Ferguson, Mer. Dr. Ryerson, J. C. Ryhert, l'resident of Association, Dr. Itichmond, Dr. Beatty, President Board of Arts.
The minutes of last meeting were read and ap proved.
It was then mored by Ilon. H. Ruttan, beconded by liev. Dr. Myerson,-That this Board woun revercntly recognize the solema dispeasation of bivime lrovidence in so sudulenly removing from them their late most highly cesleemed and eflicieat l'resident, who was among the lirst projectors of the l'rovincial Asrical tural Association, and who efliciently sustained the honomable position of the l'resident of this Board trom its tirst organization ; whoso life was largely deroted to the prollution of objects of th. highes: benefit to lis country, "specially in promotiag the interests of societies in relation to agriculture, and at all times, and in all his social relations, evincing himself a useful citizen and exemplary Christian ; that this Joard further desites to express their deensym pathy with t'r widow and family of the decrased, in this their great bereavement; and that the lresident be requested to transmit to them a cony of the foregoing resolution. Carried.
It was then mored by Mr: luanham, seconded by Mr. Alexamder-That lion. Mr. Christic, Vice-President of the lourd, be l'resident for the current year, in the roum of the late leregident, deceased. Carried. Moved by Mr. Nyteri, seconded by Dr. Hichmond, -That Mr. Pirgusun bu Vice-l'resident fur the current year. Carried.
The following mentioned commanications were then submitted ard dispused of as stated :-
From Mr. J. Dhillips Day, dated Quebec, April 10th, offering to dispose of to the board a copy of his work, " Eanglish America," in which he had de. voted tome attention to the agriculture of Upper Canada. The -ecrethry instructed to procure a copy for the Libuary.
Jetter from J. C. Tache, Esif, asking for minutes of the last meeting of the board at London, and also the following letter in reference to the action taken at that mecting in regard to the lieport of the Minister of Agriculture: -
" 3cheat of Agmiceltche asd Statistics, " Qumac, 22nd April, 1865.
"Sir,-The Honourable Ninister of Agriculture, before leaving for Europe, has given mue instructions to write to you concerning that part of the minutes of the last meeting of your lyoard, by which it appears that a committe is appointed to preparo an answer te slatements made in the leport of the Nimister of Agriculture, and alleged to be a criticism directed agains: the lisord of Agriculture. Mr. MeGee deeply regrets that such a construction should bare been put ou the referred to paragraph of his Report, in which no criticism is made, and no criticism is intended, against neither the lloards of Agriculture nor the Boards of Arts. The paranraph in question merely btates the fact that the relations leetween this Department and the different Boards connected with it had not been intimate as they should bave been, and the whole context of the Report shows that this fact is to bo attributed to the previons state of disorganization of this Department. For ing part, I am sure that nothing was further from tho Mon. Minister's intention than to relect upon the cfliciency of you: Doard, knowing as I do tho high personal regard ho caterknowing as tains for the gentlemen composing it.
" 1 remain, de.,
"J. C. TACIE,
" Deputy Alinister of Agricultare."
This communication was referred to the committeo appointed to answer the Report of the Minister of Agriculture.
Grom Mr. Tache, accompanying 50 copics of a pamphet rritien by Mr. Minnt, at tho requisition of tho Ion. Minister of Agriculture, for distribution at the Jubha Exhbhtion, entitled "Caneda: a Gengrapheal, Agraculiural, and Mincralogical sketch. Famphet accepted rub thanks.

From the same, dated May lst, acknowledging the accipt of the omeinl announcement of tho deals of tho late l'resident, and stating that tho question of the cacancy in tho lloard would bo submitted to the Gorornment, as also the suggestion relatire to a postpodement of the quention till the next meeting of the

Board had taken place. In reference to this, it was unanimously agreed by the board to suggest tho name of Mr. Cowan, M. I. P., to the Government, to smpply the vacancy in tho I Soard.
from tho same, in reference to an epizooly said to prerail int somo parts of Upher Canada, and asking the nttention of the Board in the matter. lieferred to Mr. Smith, veterinary surgeon, to report to the Hoard.
Copies of the pamplilet written by Mr. Donaldson, on "Tho Cultivation and Treatment of the $\mathrm{F} \cdot \mathrm{NB}$ Plant, 'as ordered by loard at last mecting Also, a Rejort from Mr Ilonald:on, of the progress he lind made in lecturing, and otherwiso endearouring to promoto the cultivation of flax since appointed by the Buard. Received with approval

Copies from Mr. Tache, of the ratalogne of articles sent from Canada to the Dablin Interaational Exhibition of 1865. Received with thanks.
The Board adjourned at 1 r.a for one hour
The lluard reaumed as Council of the Agricultaral issociation, and took up the business connected with the Jroviacial Exlibition.
The following communications and reports were re-ceived:-
From Mnjor Camplell, President of the Lower C.tnada loard of Agriculture, in reference to the Uppar Canada I'rovincial Show heing appointed to ho held during the same week as that of Lower Canada. The Secretary stated he beliesed tho late l'resident had replied to this letter, regretting that the two Exhibitions shouk clash in point of tume.
From Mr. Johnson, of Londun, surgestions in reference to the Ploughing Match, and staling that he would be happy to act with Mon. Messrs. Christio and Alexander in arranging the particulars, as requested by the Board. Referred to commitice on the prize list
Fron the committec on the prize list, Report subsmitting draft of Rules and Regulations, and list of prizes, as rerised by them. Received.
On motion for the adoption of the licport, rulo 17, prohibiting articles from competing at more than one rahibition, was ordered to be amended so as to pre-
cent manufactured articles or works of art from being awarded prizes at more than tro cxhibitions.
Ordered, also, that the prize ticliets be coloured as Solloms, viz. : 1st, yed ; 2nd, blue; 3rd. yellow.
Ordered,-That the prince of Wales' prize be offered for the best bull of any age or breed.
Resolved,-That the following gentlemen be appointed Superintendents for the current year, viz.:ent Agricultural and IIorticultural Depariments, James Fleming ; Superintendent Arts and Manufaclures Department, J. E. l'ell.
Some firther amendments of tho rules and of the prize list were adopted, and the Committee heport was then adopted as amenied. The Council the

Tho lloard then resumed the consideration of Board business.
Morcd by Dr. Richmond, seconded by Mr. Mykert, -That the sum of cighty dollars bo given to Mr. McEachran towards defraying his expenses in giving lechures to the Students of the Veterinary School in materia medica. Carried.
Moved by Professor Buckland, seconded by Mr. Denison,-That the Secretary be instructed 10 communicate the thanks of this Board to Dr. I3orell, for his valuable lectures on physiologry, givin to tho students of tho Voterinary School during the last session, and for the interest he has expressed and shown in the welfaro of that undertaking. Carried.
The Secretary sulbnitted copy of Transactions of the Board from 1860 to 1863 , which had Iately been completed and bound. Laid on tho table.
The Board then adjourned.
Tef Ferges Montaly Fairwas held on the l8th ult., and largely attended. The prices paid exccoded those giren at tho last Monthly Catto Fair, and tho buycrs seemed to think that thero Would be no im-
portant reaction in tho present cerorbitant rates for some time to come.-Guclph IIcrald.

Ser It is thirty-four yearssince the Spring hasucen as promising and forward as it is on this fourth day of May. Many of tho slirubs aro in fill lear-cirly lowers aro dereloped-the meadors are beautifully green-tho brallows are trittering as they lart on actove riags through the air-and there is a checring prospect of vigorous regelation.- lirce I'ress, NY $S$
Advest or the Gres.-Tho Prince Alluert Obscruer
egrols to learn that tho grub, which destroyed so much wheat threo years ago, has made its ajppearance in the 11th concession of Ileach tornship. They are found on the ligh land, and the ground nppears to be litorally alifo with them. Tho obscrier th
that to roll the graio at night is a sure romody.

Scarcitr or Fonderk.-A ecarcity of cudider exists to an alarming extont in several parishes on the Is land of Orleang. dt st. Laterent one farmer lo the cows, and another liree, in consequence of darilt, and almost all the inhabitants lave suffered mo-e or less in the sime way A' St Joachim. on then North Shore, the want of fodder is also severely felt, ats well ag throurhout the parishes on the South side.- $D$ uty Neecs.
Tur Crors:-The lielleville Intelligencer says:-" I 1 obu
 accounts of the manner ble f.ll grain stuod the wia A much larger breadth of ground was piona to fall grain last year than for several years, andit preseat. a most promising nppearance. A largo duantity of a pring gran has been sunn, a good deal of whicli has already mate its appearatace abose the grotud, and althongh the wealher has been cold, and there has been too much rain for lowlands, on the whole the Spring has thas far been favourable, and the prospecis are in every respect encouraging."
 was visited by one of the most severe and destructive wimd and hail storms which we have ever wimessed In many paces the fences wero carried away by the frevhet, and many farmers are to day lamentug the destraction of some of then choicest and most prombsing fichlds of grain. Messers. Vernon, MeGill, Tarle; Wiales, Gilmy, r.nid liobson, are the principal sufferers of whom wr have lieard. On the ridges the hail Storm was most severe, id many of the stones were as larife, sume of our mintmants say, as pigeons eggs.-I'rince 12 l ert Observer, 181 h all.

## Britisht Cilauniags.

## The Folly of the Ridge and Furrow System.

We make the following extract from lsells Wechly Messenger, prenising that tho paper, of which it form a part, was read before the Wjgton Famers' Clab, Mr. R. Jefferson, of Preston Mouse, Whitehaven :"Now for a tilt at the barbarous custom of ploughing our lamd into small ridges. Cau any practical man tell me the use of it on tuy land which is thoroughly drained? And we all know it is a waste of capital to cultivate umbained land, and that ro man with common sease will attempt it. To illustrate the folly of the ridge nad furrow system, I will take, for example, a fallow field. We have it manured with farmyard dung, and plonghed into ridges; and, after sowing wilh wheat, wo water farrow it, and do all we can to facilitate the quickest escape of the surface vater. What is the result.? Why, the first heary rainfall washes away the very essence of the dang. lon may see the rich brown thid goating of the fielid like a stream of liquid manure (which in fact it is), aud making its escape to tho nearest riyer, thus pollating our waters with tho material which we intended to enrich our soils. Now, supposing we plough our land as lorel as possible, and tare no water farrows in it, what would be the effect? The rain water rould gradually percolato down to the drains, and thus legitimately make its escape in a limpid strean. having been purified by passing through that best of bilters, mother carth. I conld enumerate many other crils attending upon the ridge nad furrow system, besides its unsightly appearance. The land is more linblo to drouglit ; tho grain docs not ripen so equally; it militates against the free use of machinery; and the furrows act as 60 many iraps to catch our shecp, where we will find ther, fect in the air, and unable to rise. Inde d, the loss of many a goodsheep can bo attributed is no ollier cause. I Ehall feel obliged to any gentleman who will tell me what andvantages wo deriro from adhering to this old-fashioncll custom, which can compensate for the ovils Lhave cnumerated."
How to Koep Cattle on Thirty Acros of
Land.
Ono of the most interesting papers, in tho Journal of tho Rogal Agricultural Socicty of England, is that in which tho Rer. J. I. hrereton relates his experience in the use of bought food upho about thirts
acres of grass land, tho cxtent of his gleloc. On this small plot about $£ 1500$ worth of stuck has been liept by n purchase of food and manuro to the amount of nearly $\mathrm{sj00}$, that tho result is a profte of about 100 , besido manure, " rorth about $£ 20 \mathrm{~J}$." Tha following are Mr. Jrereton s conclusions on tho question of fecding cattlo on bought food. . . That it is quito
possible to feed animals on purchased food alone.
2. That a mixture of the common grains and pulse, e g., linseed, peas, bea:ns, wheat, de., may bo mado for flo per ton, which will fatten any animal. 3. That the addition ofseaconing (anisced and fenugreels are those that I have used for five years), at an additional cost of el per ton, appears to pay well in the added relish and the improved condition of tho animals. I. That doubliug the quanilly of linseed, though suising the price, prolabbly pives quito a propartionate inerease to the rahte of the misture. 6 . That by the use of this meal twe farmer may fearlessly mercase lus stock, without addung to his acres; and fet, by that mercise of soch, grastly increase the probluetheness of his farm. This consideration both surfersted and replied to the folloving exclamation of': neighbouring farmer:-" Mr. Brereton, if you're domg all thas on larty acres, 1 m thaking what's to become of the lamiturds." 6. That the use of ecas.and as bedding will enable the farmer either to dis. pense with straw, or to use it more profitably as tuo:l; and that besules possessing, necording to its yuahty, mumurid properiies, the eand acts as a puri tive of the land, ant seems to allow of a closer herd ing of stock than might be otherwiso safe. 7. That sherep may he folded on grass with great adrantage, if some shelter and dry treading are provided in adjacent latds during excessively wet weather ; but the buliuchs and horses do bect la yards and sueds, the grase grown after the fold being cut by the scythe and carried to them.-Scollish Furmer.

Lamiz: luce: rom a tho of Dorkngs.-The Scollish Farmer says:-. It is not long since we knev of a Dorking cockerel and two pullets being fold for 5 sis; and amotater inshance, where the birds were sold for the same sum, wish the proviso, that if they won a mize (which they did) at a certain largo show, the seller was to get it."
Promes of Gient Marmas:-A correspondent, Writing to the Mark Lanc Erpress, estimates the yearly consumption of wheat in the United Kingdom at trents-futt millions of quarters. The imports are calculated to average six millions of quarters; thus learing cishteen millions as the produce of the 1 British Ishinds. The live stock is estimated to consis of 28 millio:s of slicep, 8 millions of cattle, and 1 millions of pigs. As fecd for stock, wheat is now 40 per cent. cheaper than oil cake; while the average price, for the list nincteen years, was 53 s . per quarter.
 opiniuns of a British journal respecting what it deens the most profitable breeds:-
"Pur chuchens fur the table, nothing like Dorkings.
" For si.e of egg, nothing equal to the Spanish; but they do not lay very regularly.

For nomber of cygs, nothing like the llamburgis, but the size of erge is small compared to tho Spanish. The llamburghs liy about eleven months in the jear, and nerer sit.
"For eggs during very hard frost and snow thero are nothing jike Bralmas. Hard wather does not seen to affect them, and they alrays look vell and 'soncylike,' let the cold bo never so severe."
Lave.-The Mark Lane Erpress gives the following table, furnished by Prof. Vocleker, showing the amount of lime, in pounds, actually removed from the soil by the different crops of the farm, per acre:

|  | Grid. | In tho etraw or roots | Total. |
| :---: | :---: | :---: | :---: |
| ITheat, 25 hushels. | 1 | 12 | 13 |
| Bavley 40 bushels. | $1 \frac{1}{2}$ | 152 | 17 |
| Oats, 60 bushels... |  | 19 | 22 |
| lige, 26 lushels. | 13 | 151 | 17 |
| Beans, 25 lmabels. |  | $3{ }^{+}$ | 36. |
| Turnips, 20 tons. |  | 72 | 118 |
| lotatocs, 8 tons. |  | 31 | 33 |
| Red clover, 2 tons. | 0 | 37 | 77 |
| Mje-grass, 2 tous. . | 0 | 30 | 30 |

As to the quantity of lime applied per acro in dif frent districts, the following is given by the au thority abore quoted : Roxburgshiro (npplied to the
f.llows), 200 bushels corn, 19 years; Ayr (applicd to fallores), 200 bushels corn, 13 years; Ayr (appliced to the fullow or lea), 40 bustacls erery 5 years; Carso of Stirling (rpplicd on the fallows or lea), 50 bushels ercry 6 years; Soulla l)arham (applied to the fallows or lea), 90 bushels every 12 years; Worcester (ap plied bufure grasses or tares), 70 bushels cuery of or S years. "It thus appears," says the protessor,
"that in thesa countics $S$ or 10 bushels a year are pretty unuformly applicd. ${ }^{\text {a }}$ Tho following is a re sume of the opiniuns of the lro:cssor on the practical use of lime. "While some farmers prefir using lime in large doses at one application, others prefer to gire small doses at intervals. The former methon appears to bo the best in soils naturally destitute of lime, or in which thero is a superabundance of rige into gnoil culture, tho safest way undonbtedly is. to
auphly liwe to it in small doces at alort intervals. ay at the rate of about 8 bishels in the yorperacte. buit repeated liming with small does at larger or gtorter intervals is neec-sary to keep the lamd at its maximum sate of tertili:y: for, in the first pace. lime has a andeney to sink into the suil beyom the reach If pionts, and this tenderney is greatest in light somt: but stll it is met with in beany ones. For his tea and leme should be applige at the surfare. Heave rains increase this tendency in lute to sink into the soil, and dissolve also a harje proportion of it llenee batlly dratiod require later supplins of lime than well dramed soils. Finally, all our cultixatem erups take from the soil certain coustituents. limu iv he quired to bo added from thme to time. and as some crous take more lime than others, it is nerescary to give at times special supplies to the soil when such crojw ille tsken.
 mor much attention in lirtum jut now. and roently a paper was read burfore the kingeror armiers clut, by Mr. What, the head miserer of the middle class school at Dunsley. on "Educ.ution, that of the midde clanses generally and the tumers at partacalax." After an intereiting diacusion, reoIntions somewhat to the fullowing efleet waye adoyt -ll :-

That a sonnd, religions, moral, ind general edu. c.ifon: should form the gromindwork of fle eilim.tion of the farmer

That a meatus of ins'runting gimela offor they lesre schuol, between the ages of 15 and 21 , is greatly meded.

That while fally appreciating the impor'ance of the prac:ical experjence ab'ained live then at bame wh the farm. it is rery de-arable that they shonla ro -ive sound scientafic anstruction.

That for this purpoce a pervon property qualitied should he engated to atford such instricion

- bind, provided a sumioient aumber of vonng mun unte and engago such mstrinctor, Fissofed, That this association grant from their funds the sum of Elu tomards the purchasc of chemical and other app,aratas."
 topic, from the liorih biatash igricollurist. With - ery advanco in the cultivation of the soil, the imparstaro of manures becomes hatter undirstuon, lиreanse they are more imperatis ely regured to mann-
fertility, and to ensure abnal.ant crops. The It.is $r$ ite ctops prodtuced, the morn is the fretility of

 11 "Chang", in these chements of piant life, which hato laid in a siate of matailablo combintiont, and It delor. them sutable foon for the growing plant. Gumamer fiallow is oate of the olduit methods used for this purpose; while another mothod in more geatral ase, conststs in stirring the soil between the rows of Whats. the chief difirence being that in the oue case the whole soil is turnml 1 ) :nd revhered, in the other, only the portions no: occupind by the crop. divanced modern husbandry is based upon the right pract.ce and apprecation of the drill and mamare Esiterns, atad on the julicions usf wf looth depmouls



 and usually of a supprior quality. This remart applies to all kimis of firld crops. where the pertod of erowlh is in some me:tane cireamscribed ly the rhortuess of the soason of growth, bominuing wih -prug and rading what the rlose of summer. The same hold goon umber virisble comditunt of climato, *inch as where the prowth of spring is sucdianly rheockod by the draturht and lirat of summer. Any mannre which tednds to dowelope the ronts, and os pand the loctros oprrates most benweicially hy thr carly establishment of the phants in the coil. This is rיry apparent in the growith of turnops and nangold wnrzel.
 froet. Lamdon bave lately had a curtons instance of the anorinoms arengith of tho genwth of Fingi forced una their athention. A: a particular spot in their street one or two of the pavement stones were obser ved to be puated up and didouged. On cexamination it was funnd to be cansen hy the growth of a mass of Aymricus cartilayinous (Bull.) growing lelow the shoures. It had raised a pavement stone weighing tivo hundred weight, aud neasuring t fees 1 inch by 2 feet 1 incl. The specimen has been sent to the British Muscum.



Improved Spinning Wheel.

## To the Eidiou of The Casaba Faruer:

Sut,-There are various sorts of work to do on a farm buth in and out uf the house. In general, however, farmers are more careful to proride good implenents fur the lami than for household pursuits ; althongh the chief in-door occupation-spinning-is very hard, t.diums worh, and requires a stout, healliy person t. d., it. Mure e pecially is this the case when tha old methot of walking backward and forwarl. luring the whole time, is pursued. In using the improved machiae. figured abore, the spinner miy sit duwn, and move the spiodle back or forward at hirpplasure. This is effected be pressing the foot on a latloe, whirl guthos the spindle backwards with great caso. and in half the time that the diasance conld be walliwl orer. By means of this machine, a person
 tively imirm. can spin just as well as if young and smart. Perhaps such it person could not make so moch threan: but it is not necessary to stand, or walk to and fro. as the spindle comes and goes at hav pirasure of the operator. I deem it a great agquisition to frmales, who have a large share of honse work. and who would oflen like to sit down, hat yot not be inle. This patent pendnlum spinning whed sates time and trouble, health and strength; amd cannot be surpassed by any other in Canada. It has been thoroughly tested, and fumid to be almost aulthes. It can epin filling, or warn, or any sort of roollen yara, and may now be pronounced the Champion of the West.

ROBERT A BROWN.
Nis:nuri, St Mary`s, Mar. 28th, i8f.j.

## Presence of Mind and Common Sense.

It a per-on swallow poison deliberately or by clamer instead of breaking out into multitndinous incolmernt exclamations, despatch some one for the do 'or; meanwhile, run to the kitchen, get half a oflus of watc: in anything that is handy, put into it a cospoonfut of salt, and as much ground mustard, stir it an iustant, aatch a firm hold of the person's nose, the month will soon dy open-luen down with the mivitury: am in a second or two up will come the poison This answers better in a large number of we's then any othet. If, by this time, the physician has not arrired, nake the patient swallow the white of an cep. followed by a cup of strong coffec, because hese nullifg a larger number of poisons than any ofber accessible article, as antidotes for any poison chat inay remain in the stomach. If a limb or olher pat of the body is severely cut. and the blood comes out hy sparts and jertas, bo in a barry, or the man will Je dead in five minntes; there is no time to talk or scma for a plyssician-say nothing, ont with your hamelierchef, throw it nround the limb, tie the two endy together, puta stick through them, twist it arount tghter and tighter, nutil tho blood ceases to now. But to stop it the tic must beabore the womad, or t lows no goon. Why? Because only $n$ severed artery throws blood from the heart; hence, to stop the flow, the remedy must be applied betweca the heart and wounded poot-in otter roods, abovo the wound. If a vein had been severed, tho blood would have howed in a regularstrean, and, on tho other hand, tho tie should be applicd below the round, or on the other side of the romnd from the heart; becauso the blood in the reins llows towards the heart, and there is no need of so great a hurry

## Preservation of the Teeth.

Homact: Wal.pol.t: bays ("Letters," vol. iii. p. 376) : "Use a little bit of alum twice or thrice in a week, no bigger than balf your nail, till it has all dissolved in your mouth, and then spit it out. This has fortified my teeth, that they aro as strong as the pen of Junius. I learucd it of Mrs. Grosvenor, who had not a speck in her teeth till her death." Do not let your brushes be too hard, as they are likely to irritate the gums and injure the enamel. Avoid too frequent uso of tooth powder. and be very cantious what kind you bug, as many are preparal with destructive acids. Thuse who hrash their tecth carefully and thoroughly with tepid water and a soft lorusla (cold water should never be used, for it chills aud injures the nerves have no occasion to use powder. Should any litile incrustation (tirtar) appear on the sides or at the buck of the teeth, which illness and rery often the constant eating of sweet-ments, frnit, and made dishes containing acids will cause, pata little mag. nesia on your brush, and after two or three applications it will remore it. While treatiag on the care of the tecth, which is a subject of the highest importance to those who bave young familics, and in fact every one who wishes to preserve them. I beg to remind my readers that as the period generally occupied by slecp is calculated to be about (at least) six hours ont of the twenty-four, it would greatly promote the bealthful maintenance of the priceless pearls whose loss or decity fo greatly induences our appearance and our comfort, if we were to establish a habit of carefully cleaning them with a soft brush before going to bed. The small particles of food clogging the gums impede circulation, generato tartar and carics, and affect the breath. Think of an amalgamation of cheese, flesh, sscetmeats, fruit etc., in a state of decomposition, remaining wedged between our teeth for six or seven hours; yet hor few erer take the trouble to attend to this most certain cause of toothache, discoloration, and decay, entailing the miseries of scaling, plugging, extraction, and the crowning horror-false teeth!-Godey's Lady's Book.

Oct-Door Hutewasu-C. E. B., Champaign, Ill., askis us to republish the following recipo which he has lost and regards vuluable: 2 quarts skimmed milk; 2 ozs. fresh elaked lime; 5 lbs. Whiting ; put the lime into a stoneware vessel, pour upon it a sufficient quantity of milk to uake a mixture resembling cream, and then add the balance of the milk. Crumble the whiting, and spread it on the surface of the fluid. Stir or grind as you would lead paint, and apply as
yon do other paiuts. It dries quickly, and a sccond or you do other paints. It dries quickly, and a second or third cont can bo added if desired. It is inodorous, does not rub off. This quantity will corer 57 squaro yards with one coal. It may be colored, if desircd, by adding coloring matter.

How to Clesasse a Cistern.-Another simple thing I have accidentally learned ; aud it, too, if not generally known, ought to be, relating to staganat, odorous water in cisterus. Many persons bnow low annoying this sometimes becomes. After frequent cleanings and olice experiments, all to no positivo germanent utility, I was advised to put, say two poumds of caustic soda in the water, and it puribed it in a few honrs. Since then, when I tricd what is called concentrated lye, I had quite as good a result. One or both of these articles can be obtained at almost any druggist's.-Working Farmer.
Lario on Mcyas Milk.-Woman's milk contains less salts than cow's milk, but it possesses a stronger alkaline reaction, and contains more freealkali, which in milk is almays potash. It is clear that me can asily calculate what mixture of cow mill and flour will contain the samo proportion of blood and heatproducing ingredicals as Foman's milk (that is to say, the proportion $1: 3.8$ ) ; but in other respects it would still not replaco woman's milk, because wheaten flour has an acid re-action, and containa less altali than milk. This alkali wo mast pre-suppose in requisite in the body for tho normal functions of the child. And eren althongh starch bo not ungtting for the nourishment of the infant, the chango of it into sugar in tho stomach during digestion imposes an unnecessary labour on the orgabizalion, which will be spared it if the slarch be beforchand transformed mo the soluble forms of sugar and dertrinc. This is easily done by adding to tic whenten Dour a certain quantity of malt. If a sort of pap bo mado by boiling mili and whenten flour, and adding to this a given quantity of malt four, the mixturo will soou become fuid and acquiro a sweet tasto. It is on this transformation of atarch into angar, and by euppiying the failing alkali in the milk, that the preparadom
this new souo in based.- Podular Science Hecieso


Mulch.
Too many are apparently quite ignorant of the value of mulch. Indecd we inave met with parties making some pretensions to lo gardeners, who did not know the meaning of the term. As a protection and help to nerly planted trees, there is nothing like it. Few transplanted trees wouhl fail, if this precaution were thken. A good mulching of straw. litter, leares, newly mown grass, weeds, spent tin bark, or saw-dust, keeps the ground loose, friable. moist, and in the best stato generally for securing steady and thrifty growth. A correspondent of the Rural New Yorker, writing on this sulject, urges the use of all manner of matorial for the purpose, that may happen to be within reach, and says that shavings, brush, cut short, chips, and even colbhic-stones will make a mulch, if nothing better is at hand. He also gives an interesting account of "the philosonty of mulching," a point on which little has leen writien. IIc observes: Downing says, "by preventing eraporation it keeps the soil from becoming dry." This is the general theory, zight as far as it goes, but is far from expressing the whole truth. Mulching is actually watering. It is proriding a constant and ample supply of moisture. It does more than this ; it provides a constant supply of fertilizing matter. Some years since, obserring the remarkable effects of mulch, the writer tried some experiments, which, to his mind, tended to throw some light upon the mode of its action. l'erceiving that a heary mulching of sav-dust produced all the apparent effects of heavy manuring, and kept the ground moist in the driest season, the bulb of a thermometer was sunk to the bottom of the mulch, and the mercury fell ten degrees. This demonstmates to my mind the c.anse of the moisture and fertilizing. The minch beingalwars
porons, permits the free circulation of the air, and porons, permits the free circulation of the air, and the moisture of the air is condensed. This accounts for the constant moisture of the carth muler it, even in the driest scason. The fertilizing matter of the air consisting of the ammonia and carbonic achl, are deposited by the condensation of moisture under the mulch. Weareall familiar with the fact that frequent stirring of the soil, in a dry time, will prevent injury to a crop for want of raid. This acts on the sume principle as the mulch. The soil being liepe porous receives its moisture ly condensation from the air. Nitre is ofen gathered from the earth in damp, datk cellars, and from under rubbish which has been long undisturbed, and it was deposited there in the same manner as under the mulch.
Mulch has another remarkable quality. It will render the hardest and most compact earth loose and porous in a few months. The benefit of summer-fal low is based upon the frec circulation of air thro:igh the soil, cansed be many plonghings. If the soil is and little or no benent arises from a year's rest. If the ground were mulched, it would need no plourehing to produco the samo benefit. It is weommendied by sotne horticulturists to remore the mulch in September, for a time, to prerent too much vater from being taken up betreen tho bark and sapewood. which, it is said, will frecze in winter, and cause the frozen sap-blight ; the mulch may be returned at the
commencement of the cold weather. This may be commencement of the cold weather. This may be
done by those who beliero the winter-blight thas produced. Ilut let no one neglect to mulch who has anything to do it with.
> --" Mracinitas, Teltrey and Datrodls That como before the sxallow dares, asd tako Tbo minds of March trith benuty; Violets brikith, But areeter than the lids of Jono's esca,
> Ialo Pirmosess that de onmariot;
> Thio Crown Imperin), Latics of all kinde,
> Thio Flomer.del, icoo belag ones
> To make sou curlands o["-Shaiespare.

## The Orange Tree.

As an ormamental plant the orange has been greatly undervalued. In the estimation of the fuirer sex, at least, its delicate, white and delicionsly fragrant blossoms are Floras gems; and every cultivator of this plant knows that, howerer fragrant and beantiful the flowers of a bouguet may be, when it contains "a sprig of orage blossom" it is all the
more prized. It is gingular that so litte attention is bestowed upon its cultivation, consideriog the pre ference of those whose taste it is the interest of gardeners to study.
lor general pot culture the more delicate growing Yarieties-as nobilis, japonica, myrtifolia. de.--shonhe be preferred, as to keep slese varietie, in moderate
bounds it is not necessary to resori to means injurious to the health of the plants; and if these are propagated ly cuttings inste:al of hading or grafting. there is lithe damger of orer-luxariame growth.
In selecting cutings, choose hall-sipened wood, and ins oft them in light, sandy soil, plunging them in a bottom leat of about 65 or $\mathbf{i v}^{\circ}$ (they will reguire altention in regard to shading from strong sunshine, (x.).), where they will root widh certainty ; but if the operasion is deterred till Octover, and the cuttings phaced in a temperature of $55^{\circ}$ to $60^{\circ}$, and in the spring lemoved to a sharp bottom heat. hardly one will lail. As soon as they are sunficiealy rooted, they should be potted of singly into four-meh pots, and, if at commanal, placed in a gentle botto:n heat, where they will grow rapidly if liept ciose and moist, and shaded from the middas stm. Keep the plants growing oa rapully till the month of Uctober, shifting them oat ay they reanire it, whea they should he gradually hardened of by at free circulation of air and at itier atmosplere to mpen the wood. They should the: be removed to a light dry part of the greenhouse for the winter months, where they shothid be kept all but dormant.
When grown in heat, the orauge is very linule to the altacks of brown scale; and as soon as it makes its appearance, adrantage should be taken of the firm stade of the fulinge to remore every restige ol this. is spring, the plants should be remored to a pit, and planged in a bottom heat of from about $65^{\circ}$ to $70^{\prime \prime}$, treating them in the same manner as recommended beforc. on!y using less shade, but stopping all gross shoots, so is to secure nice bushy plints. By the end of the sccond years goowth the plants will be handsome little specimens; and if the wood is properly ripenced. will tioner profusely in spring. As sooa as their forrering season is orer, the phath should be pruncd, all weak!y shoots remored, and the stronger ones shurtencd; and see that the foliage is periectly clean. Insects will now be got much more casily rid of, than when the plants are covered with tender folinge. The most effectual way to proceed in this mater is to lay the plants on a clean mat, syringing them with water at a temperature of about $150^{\circ}$. This, however, will neither liill nor remore the bromn scale, which must be brushed of with a dry brusb afterrards. Such plants as yequire a shift should be attended to: others which may not require it should be surface-lressed with a rich compost.

To secure a succession of flowering plants is a very easy matter, requiring no further care then to grow the stock at turo or three seasons of the jear, slightly forcing some and retirding the others. There is no plant more accommodating in this respect, or that is more casily had in bloom all the jear round.-W. F. W., in Scollish Furmer.

## A Day-Labourer's Garden and Home.

G. W. Lamrence, of Oswego, N. I.. writes to the Utica Iferald that, in 1850, he bought a lot olland in the outckirts of Oswego, 66 by 198 feet, one end of
which was a ledge of rocks, the other a pond of water. Pntting up a rough shanty, he went to worli evenings. after labouriag for lis employer all day, making ditcbes and digging rocks. The nert spring it began to look a little more like life, and he set out a few trees that he dug from the roods. snd horrowing Downings fruit book, went to grafting on his onen book. No other time than "odd spedls" when he had no other employment, has beea devoted to his land or buildings. Ife s.ys:
"Fourlecn ycars hare passed amay. and now we behold on the lot 66 by 198 ia $^{2}$ snug liouse, bara and other out-houses, a good well of water, and all done by my orn hands-shingled my house. dug nud stoned my cellar by candle light The fruit is as follows: cight applo troes, bearing thirtr-five rarictics. choice kinds, ripeniog in sucecesion, from earliest to latest; sixteen clerry trees, nil clooice raricties; nincteen plam trees, bearing treaty firo differcat
ards ; I cultivate no dwarf trees; all the pear, and a portion of the phums are on trellises, the trees now bearing being from seven to fifteen feet high. The number of raricties of pears I cannot gire, as some of the buls are not yet in bearing, but rill ventare at least from fixty to seventy-five different kinds, ripening in succession, from the earliest to the latest varieties. One of my largest and best trees is on a thorn. The tree has seven varieties, and las borne a full crop for five years. The tree grafted on monntain ash, bore more peans ham lever saw on a standard of the sume size. The thind crop it was exhamsied and died. In aldition to the above, on the same lot, we find the Lawrence seedling grape. This grape was foum ten years ago by my wife, while picking blackberries. The gripes resemble the leabecta, but the bunches grow more compact. amp they ripen firom ten to fifteen days carlier. ds to prothetheeness, 1 challenge any other ratiety to beat it. I sell these vines readily to our citizens, who saw them in bearing, at $\$ 3$ a piece. I will venture to challenge any man in the State, under the same circumstances, and with the same means, to produce ecqual results. I hare taken five first prizes at four dillerent State Fairs, two first prizes at l'rovincial Fairs in Canada, and at County lairz for the last seven ye:tre."

## Glazing Greenhouses without Putty.

In compliance with your requst for information respecting the abore mode of flazing. I hare to state that I sar one greenhouse so glazed in the neighbonrhood of lloston, U.S. It hat a neat, clean appearance, and was must facurubly repurted of as a secure house. My informant stated, that the glazing was not so linble to be iajndiciously inthenced by the weather, as when done with putty, which one cau readily believe, as most of the leahs in our houses are cansed liy defects in the patt or pattying.
The way in which the honse alluded to was glazed was this-after the priming coat the glass was laid on in the usual way, but without beddiug ; the panes were securely pegged it, and then three or foum coats of white lead gisen, which prosed quite capable of resisting the great extremes of heat and coid in that country, and I si:ould imagiac would prove fuily as empient in this. At all ecents it would be worth trying whether putty cannot be dispensed with. for it is a source of amoyance in more ways thin one. I should think that it the glass were haid in a feesh coat of white lead, and three coats orer it, it would bestill more secure than the above mode.
I hare learned that white zinc is a better paint for out-door worli than white lead. Can you, or any of your readers, confirm the report? - J. F.. Arch hall Gardens.

## The Petunia

Tur Petunia is a well-known and fironrite bedding. plant, though more generally, perhaps, treared as a hardy annual. Plants in po's may be obtained at most of the murseries, though, as they can be grown easily from seed, and hower easily the first stason, this course is the most common way of obtaining plants. Pebhaps no hower has been more improved vithin the past ten years than the letunia. We now have flowers of extraordinary size. stiped, blotehed, reined and mottrd. siagle and double. Double flowers can only be obtained by procuring plants. as there is no certainty that seds will produce donble blossoms. For a brilliant, showy bed, the single varieties are the best. If seeds are sown in a hot-bed or cold frame, in April, or in the open gronnd about the first of May, the plants will lecgin to tlorer by the last of Junc. If planted about eighteen inches apart, by the midde of July, line whole hed will be covered, and cxhibit a mass of brilliant jet delicate flowers, until hard frosts make an end of their glory.
The following are some of the best varicties I bave erer grown, and they are excecdingly fine:
Jicrmiscna Grandijtora, a rery latge forrer, ranging from crimson to scarlet. There is one variety in other respects the same, with a whate throat, and it is clegant.
Alaculata Grandiffora, has white gromnd, spotted, striped and marbled will red or purple. It is a large and magnificent flower, somewhit of the characier of
Buchanan's Blotched, but larger, nad of nore robust growit.
Marginala, is mottled and veined with green. Moro singular than brilliant, and nol alvays truc.
liosca Grandiflora, a rery fine, larac, deep rosecoloured fower, with white throat. This is a imbly cantifal nower.
l'chosa Grandifiora, is of a varicty of good colours fincly reined, with a delicate net-wotk of a decper colour than the ground of the forrer.
Cunness of Ellesmerc, is a smallish rose-coloured dower, with a white thioal, almass comes true from seed, and makes a most magnificent ved. $-\sqrt{ }$. V. in nural $\lambda$ cto Yorker.

The fruit prospeot in Ohio is roported unusually promising. Penches, pears, apples strawberrios, and all the early amblate small fruits wall we abundant if no killing frost comea to blagt them Thu glight frost of the last two weeks does not appear to have afiected unfarourably, and the foliags is now so woll adrancod as to furnish the temder frut protection We may. therefore, calculate on an abumbance, and lower pricea this year.-Cin. Com

Recbasa asd Roseucgs - It in anid that rosebngy will resort to tho llowers of rlabarl iu preference to any otber plant, and that consequently grapea, de. may be sared from their rarages by planting thabarb among the vines.

Age of Sexeds-Paschall Morris, in the Rural Adcertiser, sags: "Wra prefer turnip seed one jear old to raise a crop of turnips from, and insteal of only 5 per cent. germinating, when lour gears uht. it is more probable if the seed has been property kept, that there sill not be fire per cent. whuh will not germinate. While there are come seeds of regetable Whach it is ungafe to rely on over a year old.
it is also well established that hare are oblurs actuit is also well established that hare are others actu-
ally improved by ago, and which beem when a fow years old, to run less to vine or top, and more to fruit or crop. The melon family is of this class; and for our own planting, we wonlif prcier watermelon or cantelope seed four years old."

Mr. Vices Flomer-Gamen. - 1 correspondent of the Rural New Forker, gives an account of a visit paid by him to tho gardens of Mr. J.unes Vick, the noted Secelsman and Fluist, of Rocheswr, N . Y. Uur contemporary thes comments on the commanica-tion:-
"The abore is from one of our special contributurs, who has just visited Mr Vick's splendid garlen. Yüat he is a little excited amb pocticil. alth.0 ght number ing nearly four score yeas, will not be cunid, red strange by our readeri. when we inform them that Mr. Vick now has more than Thirty thousand Tilips in bloom, dazzling the eye with the ir brillimit and
varied colourings. An arre of surh aplandour is varied colourings. An arre of such entantour is
enough to intoxicate the mast sober-minded, and its effect upon our renerable friend is apparent. Long may he lire to apprectite the beantilit in Aature:and Art!:

To Cene Wonar Trefa - Th following recipe is published in the New York Elening Puot:-" With a large gimet or angur hore into the buty of the tree. just below where the limbs start, in thee places, a grooro incliming duwarards. Wi,h a sna.d tuatel
 grourc. J'eg it up clusely, and wateh the result. Had it been done when the sup bint st.rtied on hasupward circuit, it would hare been invre caticacions-
yet, even now, it will greaty abote ine wusame. The
 Sones, Esq., of Canaan. Colund,n Co, N. X., and witb entire suceess. It is believerl that, far frum damaging the trees, it will even adh to the beanty of the foliage. Incese of tho fruit ahove mectioned the cure was suprising, not only the fuit becommer per-
fect and beantiful, but the very leaf semed to grow fect and beantiful, but the very leaf s,
larger and far more dark and glonge."
Move to hate Chen Gandris -First, hoe early. Fieds when first up are very tender, but when large, many will lire unless buried, but if buried when fresh, Will decay before another houjug becomes necessary. Continue the hacint throush the season.
or as long as weeds grow. A fur wecds allow:al to go to secd will stock a large gurli n. I'urelamo in partieular, one of our most iroublowme parden pieeds, bas a multitude of seced, and rijens it while the capsules are greon, and manya cornticld has been otocked with it by manure from the hor-jard.
Second, pat no fard manure on the gardenthat has uotbeen thoronghly fermented. Ilen mamure. guano. phosphato of lime, ground bohe and wood to mix intimately with the contents of the prisy a sulicerent quantity of some suitable absoibent, such as coal
sales, clay, sramp, muck or charmal asheq arn all ashes, clay, siramp. muck or charmal ashed arw all
good, but poudretto is better than cither of them slagly, and erery family should minnufacture their own. Nothing more is necensary than dust, which should be dry, and improvell by ilir adhtion of atp sum. To facilitate the operation I have so constructiol my privg that rhenever a hid is clused a gocen quourtity of absorheat is deposited undertheath, and teestes answeriag tho purpose intended, it operates as a disinfectant, allaying tho unnteasant odour of the pre-
misce to such a degrco as in iny opinion to pay for all tho troublo and expenso, if that alono wero ibeolject. tho troablo and expen

## goultry jatid.

## Dosing Hens with Lime,

## To the Edilor of Tue Casion Fanser:

Sat,-In your l.ast number I observed at lutter, by 3r Gregory, oupied frum the country Oentleman, and Louled-"Shall wo Doso tho Inens with Litee?' and as my experience puints to an opposito cunclusion from that indicatod by the writer in question, I submit it, in order that jour readers may judge of the relative merits of two contlicting theorica.
During the past rinter ( $1864-5$ ), I rirtually experimented upon some rery valuable forts of a particular breed (Brahmas crossed with Dorkings, but bred with much care, and crossed backmards and forwards in the same blood, so as to aroid immediate relationship), fut hiving to nove my residence in the winter, tho fowls were ubliged to remain fur somo time in a pace, whero they could receivo no other attention thin plenty of the best possiblo food and water. With this fewding, I thought, I might spare the trouble ot providug pounded bones, mortar, de. I therefore only bept them supplied with hard coal ashes to dust in, and len them to find the necessary amount of grit for digesting their food, as best they might. Thure were suren bens and a cock,-all last summer's rhiekens, and besides these a hen of 7 or 8 years old. The hens beg in to lay soon after the snow fell, and crenfur sumu time after it mas so deep, that they could not get out of their house. At first they produced plenty of egss with good hard shells. In about 3 fortnight, howerer, the eggs ceased coming, most
mgotrivisiy, ant vat ur wo suf shelled ones weru ubservenl mader the perches, which were, of course, eaten by the forsls. Close watching revealed the fart, that the hens continued to lay, but that tho eggs were caten by them as fast as they were laid. The funls were quate fat, meighing from 5 to 6 lbg . each, and thry always had tho best of grain before them, besides tho scrapes of the house, such as potatoes, breid, fic., but the dog, which was kept at some distance fom the fowls, got all tho bohes and the meat. I cuald not beliero that with such feeding, Wamt of phosphate conld exist. I therefore blamed the ohd lan, and she was sacrificed to tho pot. The jound ones stal devoured the eggs, although erery means were tricd to cure them. Close watch was kept,
atad the egzy removed as quickly as possible, and ather a timo earh nest was supplied with 8 or 9 artilictal esgrs, so that the fowls might not know which were real and which were not, and the real egas quehty removed. Tho full number of cgers expected was then obtanned for a short time. while the hens used to break the artaficial eges, but of course they Were doappointed, and gave up their bad habits.
However, they ceased lay However, bay ceased laying forsucha length of time. ant berame so very discontented as to conrince me that there was really the ceant of something for them, :and they were at once supplied plentifully with crushed bones. Within a week, 6 eggs a day were obtained, and the destruction or itu eggs entirely cuased.
Now, these fasta cannot ho denied, and the natural uferesce is that tho hens from not being able to rauge, could not get their proper supply of lime or phosphateg, and felt such a want, that it orercame the uatuat .thect10.a all birds feel for their egga. The old ben doub:less showed the young ones where the want conld be supplied, by eating their own cggs,
and so long as they dad this they continucd to lags and so long as they did this they continued to lay,
that eorrce being stopped, thes ceased laying. Ground bones were supplied, thus furnishing both albumen and phosphates, when laying was resumed, and the depraved lubit ceased. These facts surely ought to convance even Mr. Gregory, the anthor of the quoted artale, that we shoudd "dose the hens with lime."
There is anolher point in which the article is wrong The author says hat egy-ghells are carbonate, and not pho-phate of lime. Tlte actual manufacture of the shell is not well understood, but it is believed that the pho-phoric arid is generated in the orarium of the hen, and combining with the carbonate, which is deposited on the surface of the soft slecled egg, forms the hard sold shell. At all erents tho sbell is
wore phosphate than carbonate, and from tho quickwore phosphate than carbonate, and from the quick-
ness of its tormation, wo can only snpposo that tho linrdening of it is effected by somo rapid, thounh natural, chemical chango and adinity, carricd on in tho body of the lien. I think the writer in question,
is mrong on some other points, but they are of minor importance. The fact is, we require moro eggs than would be produced in a stato of uature, and we select the breed which whil afford the supply, Such breeds naturalls require more "egg material" thau others nud we must supply that material in the food and other things we providu for them. We thus meet the drcin with a supply of phosphato, obtained from crushed bones, or othermise, and if we atop tho supply of such articles, the eggs stop also. Whon hons cau get to whero a log is thed, thuy never sant phosphate, as they devour, whe great aridty, tho hard white excrenemt of the dog, which is the result of digeste bones.
C. A. J.

Toronto, May 6, 1863.

## Devices in Egg Hatching.

Prr eggs umier three hens at the samo time, a full number, thirteen. Should they all como out, each hen must keep hor lot. If thoy only partially hatch, put all the chickens at once to two hens, and let the third bo one of three more put on fresh egge, taking caro that tho second time she is allowed to cover those sho has hatched. But in order to reduce hatching almost to a certainty, tho eggs should bo examited at the end of a week or ten days. All the bad should be thrownaw:y, the good ones put under huns that were nested at the same time. It may bo doge in this way: Choose a sunuy morning, and the middlo of tho day. Hold tho egg against any small opening in the door or other part of the building, where there is a strong concentrated ray of light. L.ook at it through both handy placed telescopo fashion. If the light comes clearly through it, and the whole of the esg is of one unitorm warm bright colvur like the sun, it will nerer produce a chickon; but $\mathbf{x}$, like the moon, it has dark shades and spols, it is good. These may be seen at the end of four days. Then when the eggs are within two days of hatehing get a pailful of warm water, and choosing the time Whan bie len is fecding, put the eggs into it. They all suim, and after a minute or tro, one will give a sort of jerk, hecause ho feels the warmeth, nnother and another will do tho same, till th: :y are all dancing the most extraordinary quadrille everseen. They elbow, lick and bang each other, and seem to enjoy it so heartily, that one is almost tempted to put the ear down to the water, in the expeatation of hearing lankhter inside tho shell of a merry one, or a deep "gluck, gluck, gluck," like the Domine in "Jacob Fathful." from some staid and steady chick that is obliged to l:ugh, but thinks it infra dig. The eggs secm to enjoy it immensely, and our conviction, Somuded on considreable experience, is, that the clackens hatch all the better. The softening of the shell renters their exit casier, and they eome into the world stronger. Tho two or three sulty egga that take the blows and return nono may be discarded. It may be truly said they have no life in them. Theso little precautions make hatching almost a certainty, and by discarding tho bad eggs at the end of a week, and just before hatching, time is saved. Perhaps after the water test, one-thirl of the efgs submitted to it are rejected. All tho good and lively ones aro put unier two hens, and the third is put on fresh eggs. Spite of all these precautions somo will fail, but where they are ndopted there is littlo disappoint-ment.-Cottage Gardenei.

A Niwn Iront on Tansos.- "Holloa, young fellow!" said the cock to the shepherd's tog, egeing him very fircely as he ran by, "l're a wrord to say to gnu."
"Let me havo it,"'said Shag, "I'm in a hurry."
"I wish to rewark," said tho cock, "that thero has been a great mistako made in tho stack-yard, and you can tell your master that he and the other man, instean of turninn the corn ent of the sheares into tho stack and leaving the stubbles outside, should havo done it the other way. How are my hens and I, do you thinh, to get at the grain unuer tbe circumstances?"
"Anything clse?'' asked Shas.
The cock wis offended, and shook his, rattles, but answered "Yes, I laveralso to remark-"
"Nerer mind, never mind," said Shag, internupting lim, "yon're under a general mistake I gee, and one answer will do for your objections. You fancy
that farm-yards were made for fowls, hut the truth is, forrls rere made for farm-yards; get that into your luead, and gou won't medllo with arrangements which youl can't understand. and in which you and your affiri are not taken into account."
-2 0h' what s the uso of frottlog
Actmajimary hilngs.
Dospalr not alimeroitidice
sco ribat tho morroiv bringe,
'Ths tho only way to do,
Bat nercr troublo rouble,
nill troablo tronvice jous.

## ghiscrilautous.

## Visiting Farmors.

In ancient times, the English las required a young man, on completion of his appronticoship, to trazel over the country a cortain number of years, working at his traco, before ho could be liconsed to mato a permanent begiuniag for himself. Tho object was to compel bim to become famatiar with the different modes in which other craftemes conduct tho busimess to had learned, so that by knowing all he might become a perfect workman.
Travelling from ons farm to another, te leara what was going ou upon each, how this or that process ras conducted, what machiacs wero successiul, which frere failures, what was the most profitable fruit crop and how best to produce it, who had the most successful garden and how it was managed, with the long catalogue of items on kindred topics-wguld be a mero repetition of the Englishobligation to become perfect in the farmer's calling.
There aro times throughont the year when most men can indulge in this useful recreation, and there aro those who systematic.illy desute to it a purtion of every season. I havo indulged in it mygelf, and have rarely gone anywhero without leaming something that was new to me, and many times useful.
On these brief perambulations 1 have uniforinly fonnd the latch string of the door within sight and reach. Going in uuheralded, aud erea anonymously, I have never been received discourteously. The house-dog may have been snappish, but tho proprie-
tor has deen all suavity. - Author of Ten Aeres tor has Deen all suavity.

Doo Shacgnter.-The work of destroying the surplus masterless and unregistercd dogs, is carried out with more gusto than caulion, by the St. Joln's constables. People cumplan that tho dogs, are shot in the street during the day, at the risk of the lives of passers by. From morn to dersy evo the crack of the musket and the "yowlings" of nortally wounded curs make a melancholy music, that has no resemblance to the "Old Dog Tray" melody.-Ifulifax Weckly Citizen.
Polshma Plocans.-The following recipe, sent as ly a practical as well as scientific farmer, will be fonnd useful at this season
The application of sulphuric acia, diluted with its own reight of water, to the mould-board of a plough, and allowing it to remain on the iron for twenty-four hours, would bo calculated to eat the surface into holes, and destroy the iroa. Diluted sulphuric acid will not only dissolve the oxides of iron, but will desiroy the metal. If those who wish to spare themselves the trouble of polishing a rusty mould-board, will have recourse to muriatic acid (quite as cleap an article), they will find that this acid will not tonch the iron, but will reader the rust soluble and easily removed. I would not adviso allowing the surface to remain moist with any acid twenty-four hours, Muriatic acid will do the work in fre minutes, and should bo cither washed off, or cleansed by running through the soil without delay.-Fium Journal.
Scarlmaga Fanvers.-This is a fanny heading, and it gocs against the grain to write it. But there are scalliwag farmers in the country-a few black sheep in a very large and fino dlock-and we feel a grim satisfadion in pointing them out. Who are they? Wo will tell fou. That farmer is a scallivag-a ncer-do-well, a weed, a black shecp, who strips his farm of lean slock, just when the grass is startiug, and turns it orer to Janke drovers who are taking it out of the country just now by a sort of wholesale. Some men can't help this-they are forced to sell, or permit the Bailif to sell for them-and such, when they are forced into this position, we pits. But wo hare no sympathy with the lazy, thistle-growing, fence-neglecting, land-robbing varlets, who sell becauso they aro too shinless to beep, and are tempted by a little extra price to part with the young, lean stock which should bo tho life-blood of their farms. It nover did pay to sell golden-egt-layers, even at gold price, and never will. The farmer's young cattlo aro his manuro manufacturers; and if he semds them suirift ho puts his hands into his own pockets and turns them inside out. And to sell lean stock now, with a good summer's grass growing for their fecd, is as snicidal as takiog faudanum by tho quart, or arsenic by the pound. Wo don't know how to epcak of the miscrable culprits whin are guilty of the practice. Wo hopo that the want oibecfacet Finter, and a six month's regimen of potatocs and enlt, may bo tao least penalty to bo borne by them for their nin. Earmers, who aro morthy the name, frown them domal Let them know that yon havo your ejes apon thom 1-EFIora Observer.

A Word to Farmars' Bors.-We hope every farmer'm son will set out at least one ornamental troe on the homestend this spring. It will be one of the frst things he will look at when he returns home at some finture time. We almays search out the npple trees that we raised from the seed-large venerible looking trees, and derive a peculiar pleasure as they help the memory to run back to the scenes and pleasures of boyhood. To-day we eaw a beautiful maple that wo get out twenty-six years ago. Go and get a luealliy looking sugar maple, with as many roots as possible. Cut the top off, but leare the small underbramehes. Set it ont before tho buls begin to swell, in a rich soil, and it will grow and be an ornament to your home. Almost every boy is anxious for the time when he shall go away from home and see the worid for himself, butafter he has been bruised about a few years, he turns his eyes towards the hople of his boyhood where every object has a peculiar interest, and if he can see a beantiful tree thet his own hands planted, it will add much to his pleasure. Fiarents are often advised to make home attractive to their boys, but boyy enn tu much themselves to make it pleasint by plantits trees. We hope that when we ride by your home, we shall see some trees planted by your own hands.-Maize fiurmer.

## 

## Toronto Markete.

"Catada Farmzr" Omce, Slonuay, Hay 2:", 1805. Nothing could exceed tho geacral auenest of the weather for tho last two weels Wo havo had almost uninterrugted sunshitoc and marmith, and bur on tho upenage of Janc, tho Leat of uur Canadian sulamer begins wo feth. Thore has becu muro actanty In our atreet maxket during the past foratght, owing to farmers barlog got through thetr scedtng, and aro now at hucrts to como thto town with what producu they bave for sale. Tho houl scasin, too, is about to open, and for tho next fort weeks wo maj exject a condnuanco of the activity unth the hay crup requires atthatun In our breadstuma market there bas been no small anount of are gularty and ductuation. Pricea haro advanced colustlembly to all branclies and thit, couphed with the lightriess of stock', which are beld in a fer handa sho refuso to uperate, in anticipation of still higher rateg, bee mado tho market somountes pantcky, otuct tomes admaces, stathonary and tregular, whis but few transac thons In llro trock there has been a steady orodus to the states, both from thes maskot and otber ports on the taka. These in ica domand now, howerer, than formerly, whea tho tmmense Amert cap army, which is now roducod to one.funth its original ste, has to bo fod by Government. In all branches of trade on the other sldo thero is, stranso to saf, more or less dulunes, which tho stoppago of tho war, and tho openang up of tho Evu:h, wuutu scarcely secm to wartant. I.umber has berun to muto fr an our molt to tho Amertean market with a good deal of brininess since
tho onentog or tho canaly ahtch causos a further actity in our shipplos and harbour sercral lario carrocs have cicaral durin
 Tho Seagull, Captain Jackman, also lef Lecto mha a largo cargo of pino lumber for Port Siatal, in Southaftica. Sho ts tho not rease arer left here for such a distant port, and sho was tored out of the luarbour with all honount, amld tho greetings ant good whese of our citizens
Flour in gool demand; Na. 1 superlne at $\$ 525$ to $\$ 530$ per bu,
 to $\$ 120$ per bustict;'lower on tho strect \$prng Wheat
$\$ 15$ jeer bustel.
bartey qulet and unchanged, at 5se to Cúc per buslicl.
Oats at asc to joc per bustuc), from tcamy and ta store.
Rye coc per bushel
prase thath nollilyg dolng, at 50 C to 85 c per bushel
Hay- Hatict filtly gupplicd at \$1s to \$is per tou.
Straw in woor suphly ni $\$ 14$ per ton.
Provsiont-Luter-Fresh wholcsale,



## to 13 c

Hawd Whalesale, per 1b., 12 yécto 138 , retall, per ilu, 14 c to $15{ }^{\circ}$
 146.

Checre-Wholcsale, por ib. 11c to 12c; retail, per 1b, 14 c to 15 c

Bese In small suypity at $\$ 560$ to $\$ 650$ per 100 lbx ; ic to 7 s

Sheep, by two car load, \$3 10 \$650, cach, $\$ 5$ to $\$ 7$.
Lames. $\$ 260$ to $\$ 300$; very good brang $\{500$.
Irork $\$ 650$ to $\$ 725$ per 100 lus, amill supply.
Ifides (Erecm) lower; per $100168, \$ 300$ Lop $\$ 305$; drg hitices reto sperll; curel and tannod, the to sc.
Tallow-rougi, bo per lu.
Woot 30c to 3 c
Calfakns (green) ic to 8 c por Iu: dry, 16a


Hod $\$ 10010 \$ 360$ per cord

Water lime \$1 50 per bol
Iblatoes in cood supply at 400 to tse por bushol rocill.
Apples, $\$ 3$ co st por bbl .
Applis, $\$ 310$ st por bol.; Amertian da, $\$ \$ 50$ io $\$ 5$.
Duwa, sse such.
Chichens, 30 c to 35 c aech.


Monirenl Markete, May 27. $\rightarrow$ Fowr-Racopas 4,00 barrcla maries rery quict; quotatlons nomalualy unoxchanged

 lity. Com-No sales rejortod Ashes dull at
clanged wila sollers, so arnie at lower rates.

Ioniton Marketm, May 27 -Spring Whent, perbuncl, it o \$1 03. Full Wheal, jer bustuel, \$1 US to \$1 08 chour, jor 120 bushit 40 to to 22 a . Pariey, Mor

 Gnrnia Marketa, May in -rian wheat, isc tu 80c giving Hherat, 70e to itc Oate, 50c to 52c rhour, per barrel, \$f io ti 'otatoes, per butiel, Sje to isc. Apphes, ner bushel, \$1. owlf

 Beans, leir
Camdan
Merlin Dirketn, Jiay 27 - Fiul ITheat, $\$ 1$ to $\$ 100$. \& ring Wheut, \$1 to $i 106$ tiour, per 100 Juy , it is is. Oats, 40 c \& 45 a
 $\$ 15$ to $\$ 16$.
Telegrajh.



Wellmnil Mnrkety, Hay 2: Fall IFheat, per Lushel, 93 c












Port IIope Markety, Mas $2 \mathrm{i}-$ Full wheat, $\$ 115$ to $\$ 1$


 F'resh biater, 10 c to lic.
to 9 E -lintish Conadam.

 Hay, jer hus, s? to $\$ 10-$ Horld.





 dewath, Cunht bithers at si: - j, Ned Wenter and White at
 at $\$ 130$; Lio Chteago prins. sela in Chicago to arrive at $\$ 140$.

 Arnur atif to Butter winderale domand abd luwer, Ledd at 13c. 10 20c. - bijpircs
Now Ionk Markete, May oi-Ficur-lleceipts 10,6:8 barrels, mathet githet a al willout deculeal change; sales 5,000 bar. cha at \$6io So 40 for sujperthe state, is $\$ 0$ to $\$ 095$ tor extra



 byo min ruict. dye quiel varley dull cira-licaries -450 vusicls spring.
 700 barrcle at $\$ 23$ to $£ 23: 3$ for new me $s, ~ \$ 21$ for 1803 and $18 G$ duo, and $\leqslant 15$ to $\& 15$ hi fu: frume. Be $f$ guet

## galurtisemeuts.

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whith co acres are about clmr or etumpe nod under crop with
 Wheat Oate siricy, mitatocs, ani ifay, and the balanio al: yasture.
 Cardiog avi Fullini 3lil, a miles froin Collime coni Harbour is from tho Scotch Comers Thio nuoro witl to gold cheap for Cath aud 7 percenk of discuust alloted, or time will to given for the ode-lutf of the purclaz: mones

Apply by lector, Post-pald, to
PMTER BEVERIDGE
Nollawaygr, Apoll 13b, 1968.
12 8-w

# 1865.量造 NOTICE. 

 1865.THIS YEAR'S IMMIGRATION.


#### Abstract

 Scriants Merlanks, turn lainostr, Ac. aro wou kiginiting    npplicant, and aduress any of the collowing Guvermment linmisration Agcols:-


 CIMEF AGETT.
A record of sucli applications will be kept, and no pains sparel by the various onleers of the bepurtment to supply nll waits
 frec inepection of Immlgrants and discribution

|  | A C BUCLASAS, |
| :---: | :---: |
| Govrrnumtr Impigration Ofsicr, Qucbec, lat April, 1503. | $\begin{array}{r} \text { Chief syent. } \\ \text { rar. } \end{array}$ |

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