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## The sidid.

## Stoam Cultivation.

winumsss, ccsmvitor, fe.
Tur: windlass of Messers. Howard, as shown in our first cat, consist of two drums which rerolve round the wrought iron axte-irce of a pair of high travelling wheels, and on which the ropes are alternately coiled and uncoiled. Iron brackete, at each end of this axle, support the pinion shafts inmediatelyorer the drums, and receive the pair of wooden shafts by which the windlass is moved from place to place. "Anchor flukes" are attached to the extremities of these shafts, for the purpose of firmly securing the machine sgainst the pull of the rope. When the steam plough is in operation, it will be seen by referring to the large illustration at page 305, that the windlass is placed in close contignity to the engine. A crank, with a " gexible unirersal joint," connects them. The necessity for "clutches" and sliding pinjons is obviated by this arrangement. The pinions are keyed fast upon their shaft, aud the alternate gearing and releasing of the drums are accomplished by raising or lowareaccomphished by raising or lowed is at once novel and simple. The drums revolve round the axle tree upon eccentric busbes, and, consequently, at enoh semi-rerolation the drum is are thrown in and out of gear by means of a spring; while a brake prevents the rope runaing off too rapillly. By this contrivance, the plough or cultivator may be stopped in an instant, even while the engine is running. The rope is coiled on the drums with as much nicencss and regularity as cotton thread is wound on a recl. This is an advantago of some consequence. Irregularity of coiling, it is obvious, greatis in reases the wear and car of tho rope, and impairs its strength and durability.
Howard's New Patent Cultivata: is shown in our next illustration. Thie is a thorewhly effective ins.

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 It is to be regretted, in spite of the impetus which eminent British agri culturists have given to furming as a science, during late ycars, that the premises for arriving at a definite conclusion, on this im. portant point. are extremely vague and unsatisfactory. An accurate comparison between the old system and the now oen only be based upon a full and correct method of farm book-kecping. The regular and conscientious discharge of this duty,-for it is a duty,- is apparently confued to a very limited section of the farming community in Britain, as well as in Canada. Like: many oiher excellent customs, it is, unfortunatels, " more honoured in the breach than in the observance." It is somewhat rare, either in the "old country" or in this province, to meet with a farmer who, hy reference to any fugitive account, can give the
history of one his fields for three years back. He may, possibly, have some approximate idea of the amount actually pocketed by marketing the crop; but, at regards the cost of cultivation, the crpense of mans

ing, and the amount cxpended in harvesting operations, he either replics with the most reckless umcertainty, or declines, with some alarm, to attempt so abstruse a calculation. The cost of boree keep, again, is one of the standing proWlems of the farmer, and perfectly indeterminate in its charscter. It is only necessary to question any number of farmers as to this expenditure, to be convinced that the most amusingly conflicting opinions exist on the subject. The samo ragucpess and inaccuracy exiends, in a greater or lesser deroce to almost every item of farm disbureements, which. had
they been rightly regarded within the prorince of manufacturing proper, would have been accuratels measured and tabulated. Had the results of stean culture been carefully bahancoll with thuse of hurst culture, we should nut now the compelied to geppe in the dark for statistice, while in all probability steam wouid hare been far more generally wed in farm tillage. "At the present time," a- hate beta abrewdly remarhed, "the s.aggine, whe rarely wait for results, and the fur-secing, who arriwe at their judgments by a species of intuition, are manisy those who hare had courage enough to become st am plough men." Their more cantivus brethern are sat euriously prying through the hedge, uncertain whether to praise or to condemn liwre, thery arr warmed up with a higuly coloured picture of profit. There. they are cooled down by exaggeratel statements of loss. So they oscillate between two opinions, num. half dissatisficd, drive on their trame till light from one quarter or another becomes clearer.
At the gane time, the lessuns taught by the and tillage of the steam plough have not been lost. beop fall ploughing is now one of the established features of british agriculture. By means of four, and esen six borias attached to a single plough, latal in many rounties is cultivated to a depth of trelse or fourtem inches. When, however, it is rememberen that in ploughing an acre of land with fuur horsec, at at three huadred thousand footprints are made, it with be manifest that this cnormous amount of treating ijust so muct taken foom the useful effoct of the ploughing. In acary wet land erery huree's fuot renders the soil covered at each stcp, impersivals to air and moisture. With the steann plongh this eril is entirely aroided, while the land is broken up into larger pieces, thus permitting the atmo-pherc to act on the newly exposed surface, and to teader it easily reducible to a fine tilth in the spring $A$ general opinion seems to exist among the pritish agricultural community, that steam cultiratio:a is bestadapted to heary land, and that it will be ex clusively confined to it. Although it is almost sulfcrident that tho steam-horse is a most valnable acquisition to the occupier of strong clay land, it $1, g$ no means follows that steam cannot be economically applied to lighter soils. The apparatus that is constructed especially for strong land may not be adapted to free soils, but with a special adaptation to varied circumstances, the power which is ro inroluable in the one case, is quite as invaluable in the other.
The adrantages of steam culture, as cs.alhebed beg the experience of British farmers who lase farly tried it, may be summarized as follors: Steam is cheaper than horse-porer for doing the hard work of a farm. Deeper and more eficient cultiration is obtained. The farmer is enabled to perform his tillage operations in less time, and at the most farourable scason of the gear. On clay and loam eoils, especially, better crops with less manure can be obtained. The land is speedily and effectually freed from thistles and other troublesome weeds. Tenacions soils are made more friable and porous. Drainage is promoted by stirring the subsul and breaking the "pan." Open furrors are unnceessary. Steam implements,-when the motive power is cupplied by a stationary engine like llowards or
 cable to worli with borses. And finalls, a minch less number of horses is necessary on a f.rm, white these that are still requisite can be mainuined at less expense.

Grest Yipins-EEb. Whillips raised the present scason in Sandgate, Vt., a cine gield of buckwheat, and he counted the product of one licrecl and fyund the yiedd to be 3270 seeds. Jacul Stanton, of Norlit Danville, sclected from lis oat Ildid uace spruat, seren straws, from each were gathercl 200 oats, making a
yield of 1400 from one. ralsed turee babhels of large ooions on less than 10


## Green Crops.

## Tio the Eilitur of Tha: Casama Farmen:

Sir, - In Great Britain, the system of feeding areen rupis wa the sual is well understuod and thoronghly dued hyon. The practice is, on all hands, agreed to one of the best methods of fecting stock : but in Cauadr this pinciplu in farmang is almost entirely urarluwhed. 1 c.an eee no good reason why thas mate well suited to the growth of the plants required. The system is one that, on farr trial, mast commend it elf to the farmer. lis it we sare the labour of cut'angure cherging the crup, nat, at the same time, minure the suil- thus saring the cartage of manure, Be sowing rye, in the fall, on the land we intend to f.htuw the ensuing season, we hare in spring a time when our stuck cease to cat cone winters at Wall relish, and when it would be the worst policy to now shingle hoof on meadow or pasture land. The ry, shouh he suna thathy, and allowed to grow
atoul a fuot hiph befure being fed. It is best fed in ahwid a fout hugh befure being feal. It is best fed in $t$ npoiary fa nee. It should not be eaten tuo close in uda, liatic mas spring fur another cropping, This (rup is specially valuable for breeding ewes and in cuns, miml in aleo tory usetal as a green food lorwe. The unly capense comected with the crop is that of seed antl harrowing, as it is customary, and wiscly so, to plouglis summer fallow the prerions
Dinutur r phent I would commend as a green crop, is wip. "r cidesced, now one of the established green cipp of ibritain. There, it is sown at the end of Junc,
(ur an Juty attur flac) at the rate of two quats per (wr un July attur fias) at the rate of two quarts per wat on the llat, in rows thirteen or fourteen inches apart, and wfen with the turnips that are to bo first hin all iny the s!eecn. In July, that sown in June is hoed and thinned out as sou would turnips, dnuble plants may be left in a place. The crop is ready for holk in Uctober, and is in season till all is caten. With us it may be sown thus, or broadcast, carly in spring and at interrals, being proop against the fly. It marures in about four months, and will thus be available (according to time of sowing) from August to winter. This crop is fed the sime as tho rye, andis rery valuablo as supplying a want in pasture during the months in which it is in season. Those acquainted with the plant say that it is one of tho best fat producers. Vetches, tares, millet and IIungarian grass may be fell with adrantago as green crops, hat siould be cat and carried. Were we to sow our late turnips a month or so sooner than customary, we could feed them off in September as we do raje.
On the f.urm of Messrs. Gooderham \& Worts, of this place, most of the above crops have been grown, and so well pleased are these gentlemen with the results, that hey purpose having about fifty acres of green crop the ensuing summer, 25 of which are
already sown in rge. The present jear they have grona ab,out fulur acres of rye, and about the same of rape. The furmer was twice fed over by the lambing ewes. furnishing at large amount of excellent food and the rape sown in June has been fed off tho past month It was sown on a hill side, and was as good a crop as could be expected on the suil.

Meadowvale, Dec. Gth, 1865.

- Fimencir Mantar, Mswafacton:-Tho Chemical Niers says :-"In the Juurnal d" Agriculture Pratiquc, M. Marra gives sume interesting dutails on the subject of the manufacture of animal manure at Aubervilliens. The manufactory consumes erery year 8000 horses, 200 donkeys, 300 cows, 300 pigs, 5000 cats and dugs. Guo halugrammes of meat infit for fuod, toins, and cu0,000 hilogrammes of other refuse animal matters, such as skims, horns, dc. The raw material is first cut up and boiled, to cxtract the grease. The desh is then separated from the bones, pressed, and dried. It is afterwards grownd and sifted, and the dried bones, wheh are also submitted to the same process, mised with it, forming a manure containing 5J per cent. of nitrogen and 55 per cent. of phosphate of lime. The blood is collecten separately, and also mado into manure. The soup obtained in the boiling is strained, and the solid matter thus collected is
added to the rest. The offal is piled in alternato added to the rest. Tho offal is piled in alternato
layers with other organic matter, such as wool and parings of horn and hoofs, with which is mixed at certiin amount of miaeral phosphates. The heap as well moistened with the straned soup, fermentation is set cellent the whole is gradually transiormed hoto ex of limn bruaks up into phosphoric compounds, moro or less soluble, and various salts of ammonia are formel.:"


## abt 젠ㅍy.

Making Ducdle Gros'ter and Stilton Cnresf.In answer to a correspondent, thu Irish Farmers Gazetle describes the process of making these populav rarieties of cheese as follows
"Double Gloucester checse is made from whole milk, and heated to about lut degrees, and let to cool dorn to 98 degrees, when the rennet is ndded, and gently mised up and let stand from three-quarters fo an bour. When suficiently heated, tho curd is gently lirolen up vith $n$ scoop, and let stand for a few minutes to subside, when the whey is drawn of, few minates to subside, when the whey is drawn of,
and the curd cut in every direction with a knife; it is then put into a drainer, with a cover to fit inside, and a weight pat on it , to press down the curd ; every linlf hour tho curd is cut smaller and smaller, nuil additional weight put on it ; in about three hours it is put in a tub, cut very small, and salted to taste ; the curd is then put into the mould, weighed, and put near the fire, and shortly after put in a cheese screw press and lurned frequently, rubbing it ench timo with a little fine balt for ten days; it is then rubled rith a little butter, placed in the clicese storeroom, turned three times a week, and rubbed with a coarse towel. Care must be taken not to expose the clicese to too much drought in all its stages, which would causo it to crack; or to damp, which would cause it to srrell. Stilton checse is made by using the cream of two milkings and the milk of one mixcil together. The process of making is the same as any other cheese, but the curd is not so finely broben, ant to be of tho best quality, should wo kept two sears."

Water a Dinect Agext in the Pronction of Misk--Experiments mado on this subject have been recently brought beforo the Academy of Sciences by 3. Dancel. Tho conclasion to bo deduced from these and from the observations made by various persons, is, that tho amount of solid food consumed is littio or not at all afected by the fact that the animal is firing milk, but that the quantity of milk produced is in exact proportion to the quantity of water drankboth circumstances being true also of human beings. A heifer which, before calving, will be satisfied with from two and a half to four gallons of water, when suckling, will require from six and a half to ten. A change from succulent herbago to dry forage will immediately reduce the quantity of milk to threefourths or eren tro-thirds. The necessity for a supply of water is different in different circuinstances.A lean person, as soon as sle begins to nurse, wit have a violent desire to drink; not so one that is fat, a supply of water being already stored up in her organisin for the supply of extra demands. Hence the milk produring power of any substance depends. as might bo expected, on the quantity of water it includes. Oil-cakes aro found to be bad milk-producludes. cers unless mixcu with rater. and nutritivo value is another. One animal may produce a large quantity of poor milk; another a small quantity of rich ; and the latter may afford tho more valuable product. M. Dancel does not enter into this, which is the most important part of the subject. If mere quantity depends on the water drunk by the animal, the amount of solid matter contained in the mill-that is, its real ralue-must necessarily depend on the quantity and quality of the solid matter con sumed by the animal. Dairykecpers know but too well how to increase the quantity of their milk; and to us it seems to mako but little difference whether the excess of water is due to direct adulteration, or unsuitable but to cconomic feeding. When we purchase milk we intend to pay, not for water, but for the solid matter it contains.-Scienfific Revicu.

## State fyusbuary.

Same of a Vancable Ram.-The Rural Nezo Yorlect says: "Wo understand that Mr. A. J. Jones of West Corawall, Vit., has made sale of his ram 'Young Comet,' that was awarded the first premium at the late State Fair at Utica, to Messrs. Eli and John Taylor
of Elba, Genesce Co., N.Y. for $\$ 2000$. We learn that the same centleman somo years ago, bought ono hundred of Mr. J.'s Vermont owes. The celebrated "Young Comet" can be seen by those wishing to avail themselres of the opportunity by calling on Mr. Taylor at his place."
Strengrt of Different Kimp of Wool.-A. F. Moon, l'aw Paw, Nich., asks us which is strongest, and will make the strougest cloth, coarse or fine wool. Fino wool is decidedly stronger in proportion to diameter than coarse wool ; and fine wool, if mpun into as largo threads as those of coarse wool, which are employed in leavy common cloths, would mate n fabric more than three times ras durable as the lattor - Randall, in R. N. Yorkcr.

## (entamolugy.

The Joint Worm.
In the last number of the "Practical Entomologist" (published by the Entomological Society of Philadelphia), there is a long article-much too long for insertion in its entirety in our columng-commenting on our observations respecting the Joint-Worm, (vide Canada Farmer, Vol. II, No. 19, p. 297.) The follow ing extracts will enable our readers to judge of the importance which is attached by Entomologists to the smallest particulars respecting our insect enemies ; and to perceive how much valuable assistance they can render us and the community at large, by carefully watching the depredations of such insects as come in their way, and sending us the results of their observations.
"The above paragraph from The Canada Farmer, throws some considerable light upon a subject of great practical importance to the Agriculturist, which has never yet been fully elucidated. For
many years back it has been known that whole fields of wheat, rye, and barley have been destroyed in the States bordering on the Atlantic, by a minute insect popularly called the "Joint Worm." All accounts agree in stating that this so-called " worm" is found in considerable numbers, imbedded in a small, gall-like swelling in or immediately above the second joint of the straw, or at all events some joint not far from the ground; and that, in consequence of its operations, the portion of straw above the galllike swelling withers and comes to nothing. This worm" of course must, in all probability, be the larva of some insect; but to what Species, to what
Genus, and even to what Family and Order it belongs, is at present wrapt in obscurity.
Both Dr. Fitch and Dr. Harris were originally of opinion that the Joint-Worm was the larva of a Cecidomyia or Gall-gnat, the same genus of insects to which appertain the common Hessian Fly and the Wheat-midge. Subsequently, however, because from a large quantity of the diseased straw they never bred anything bat Chalcis flies, they both of them came to the conclusion that it must be the Chalcis fies that were the cause of the disease. And yet it is notorious that the Chalcis family-to which appertains the genus Eurytoma mentioned in the extract from The CANADA FARMER-are generally parasitic upon other insects; and that, although hundreds of species of them are known to entomologists, in no one instance has it yet been satisfactorily proved, that any one of them is other than parasitic in its habits.
We have referred this subject to Mr. Benj. D. Walsh, of Rock Island, Illinois, who has paid special attention to the Natural History of Galls,* and has published Papers in our Proceedings, on the Galls of the Willow and Oak."
The article then gives Mr. Walsh's opinion on the subject. He first states his reasons for believing that the "Joint-worm" is the larva of some Gall-gnat, and not of a Chalcis fly, and then proceeds as fol-lows:-
"Let us recur now to the extract from The Canada Farmer, in the light of the above suggestions, which I offer, not by any means ns a complete solution of the question, but as menc pinions formed from the very incomplete evidence which has as yet been published. Three things are tolerably plain from this extract-1. That the 'two small sections of wheat-straw, in which are imbedded pupx' and the straw, are true Joint-worm galls. For if the papse had been those of the Hessian fly, it would not have been necessary to make a 'section' of the straw in order to exhibit them, as the papa of the Hessian Thy always lies, not inside the straw, but between the straw and the shank of the leaf that enwraps the straw above every joint. 2. That the 'tiny little fies ' bred from the pupa found in the wheat-straw
from Canada are Chalcis flies, probably belonging, not to the Frurytoma group, but to the Pteromalus group. 3. That they 'ate their way out of the sides,
of a certain pupa' found in these 'Joint-worm' straws, and consequently that they must be, not gallmakers, but parasites like all other Chalcis flies whose natural history is accurately known. Whether that pupa is the pupa of a Gall-gnat, or of a Gall-moth or of a Saw-fly, or of a Gall-fly, can be readily and certainly determined from the simple inspection of a
easod growths upon plants no matter what all unnatnral or dis which are caused by insects, are technically termed "Galls." by Naturalists
single good specimen either dead or alive. But the particular genus and species to which the insect belongs, can only be found out by actually breeding the living pupa to the perfect state. For these two purposes I most earnestly solicit the gentleman in Cobourg, or the Editor of The Canada Farmer, to mail me immediately a few specimens of the pupm spoken of in the above extruit and the flies bred from them, packed in any small, stout, pasteboard box in cotton wool, so that they may not rattle about and get broken on the road; and so soon as Spring opens and the supposed Joint-worm galls have nearly got their growth, to mail me every three or four weeks, enclosed in oiled silk to prevent their drying up, a fresh supply of them, roots and all if practicable-say a good large handful at a timeuntil I notify him to stop, which I engage to do as soon as ever I have attained my object. This may seem unnecessary trouble and expense; but it is ibsolutely necessary for the end which we all of us have in view, In order to breed Gall-gnats with success, it is essential to have fresh galls from time to time; for by no method known to me-and I have tried dozens of different methods-can these delicate insects be kept alive any length of time in the Breed-ing-vase."

Should our Cobourg correspondent be willing to accede to Mr. Walsh's request-as we trust he willhe can send specimens of the diseased wheat by mail at a very trifling expense. The following is the Post Office regulation for such matter:-" Packages of seeds, cuttings, \&c., may be posted in Canada for delivery within the Province, or to an address within the United States on prepayment by postage stamp of a rate of one cent per ounce." No communication, whether written or printed, must be enclosed in them but the nature of the contents must be marked on the outside, in order that the package may go at the reduced rate.
-In a matter of such importance, affecting such vast interests both in this country and in the United States, it is surely the duty of every one who has the opportunity, to do all in his power to increase our knowledge respecting these tiny foes, and thus render assistance towards the discovery of efficacious remedies. We know of no one better qualifed than Mr . Walsh to make use of information contributed from various quarters, and to deduce from it results of practical value. We trust that any of our readers, who have observed their wheat attacked in a similar manner to that described by our Cobourg Correspondent, will also favour Mr. Walsh with specimens of $i$.
Errata.-No. 19, page 279-article, "Walking. stick Insect," for "Bacumentus" read " Bacunculus.",
Ibid.-Article, " Wheat-Joint Fly," for " Erureptoma," read "Eurytoma.

No. 20, page 311-article, "The Turnip Caterpillar," for "specimens of an (Ophion, etc.,)" read "specimens of an Ichneumon (Ophion, etc.)"

## Zoultry yaxa.

## Fattening Table Fowl.

At the approach of Christmas we usually receive many queries respecting the best method of fattening fowls for the table. In reply, we cannot do better than quote the following very practical directions from Mr. W. B. Tegetmeier
The place in which poultry are fattened should not be close, but should be free from drafts of cold air, and kept at a moderately warm and uniform temperature; the roof, therefore, if of tiles, should be thickly lined with straw. Quietness being so especially desirable it should be so situated as not to be accessible to those fowls at liberty; and should be partially darkened, if possible. It is also important in the highest degree that it should be perfectly dry, as it is scarcely necessary to add that a fowl suffering from cold and inflammation is not likely to fatten, and it must be kept scrupalously clean. The fattening coops should he two feet six or eight inches high in front, and about two feet deep, with a boarded roof sloping backwards, the back and ends should be closed, and the bottom made of flat bars with rounded edges, two inches wide at the top and narrower bencath, so as to prevent the dung sticking to the sides. It is very important that the bars should run from end to end of the coop (not from back to front), as the fowls cannot stand towards the front when they are in the
latter position, and they should be two inches apart on the upper sides. The front of the coop should consist of rounded bars, three inches apart; two rods connected together by a loose cross-piece below, and sliding through holds made in the roof, will be found more secure than a door, as it cannot be left open by a careless feeder. Before the front should run a ledge to support the feeding-troughs, which are best made by joining two pieces of wood at a right angle, and securing the ends by letting them into grooves in stout end pieces.
The coops should be raised on legs so far from the ground that the droppings underneath can be scraped up every day; the most scrupulous cleanliness must be observed, otherwise disease will be produced. The coops, therefore, should be frequently limewashed with freshly slaked lime and water, and then thoroughly dried, before a fresh batch of fowls are in troduced. In cold weather, the front should be covered up with matiing, or some other warm material, at night. The length of the coop must depend on the number of fowls that it is required to contain; but it is not advisable to place more than ten or a dozen together; and if strange fowls are put up, care must be taken that they agree well together, as otherwise the constant excitement would would prevent their fattening. It occasionally happens that fowls are infested with lice to such a degree that they become irritable, and refuse to fatten; in these cases a little flour of brimstone dusted under the feather before cooping them, immediately expels the vermin. The age at which fowls should be put up to fatten is a very important consideration. When"a pullet has once laid, she can not make a first-rate fowl for the table. She should, therefore, be cooped before she shows symptoms of laying. The young cocks should be put up when the curved sickle-feathers of the tail begin to show beyond the straight feathers, or, as the country women say, when the tails begin to turn. If these ages are exceeded, the birds do not fatten so readily, and the flesh is not equal in tenderness and delicacy to that of younger birds. The best food for fattening poultry is sweet, tresh oatmeal or barley-meal, mixed either with scalding milk or water. Cooped fowls should be supplied with fresh food three times a day-namely at daybreak, or as soon after as possible; at mid day, and again at roosting time. As much as the $J$ can eat should be given on each occasion, but no more than can be devoured beforc the next meal; should any be left, it should be removed and given to the other fowls ; as, if kept it is apt to become sour, when the birds will not eat it freely. The troughs for the soft meat should be scalded out daily, which can only be done conveniently by having a supply of spare ones. In addition to soft food, a supply of fresh, clean water must be constantly present, and a little gravel must be given daily, otherwise the grinding action of the gizzard, which is necessary to the due digestion of the food, does not go on satisfactorily. The supply of a little green food will be found very advantageous to health; a little sliced cabbage, or some turnip-tops, or a green turf to peck occasionally, being all that is required. A variation in the diet will be found very conducive to an increased appetite, and therefore the occasional substitution of a feed of boiled barley for the slaked oatmeal is desirable. Some feeders have a division in their troughs, or, still better, a small extra trough, which always contains some grains for the fowls to peck at.
Should the birds be reqnired very fat, some mutton suet or trimmings of the loins may be chopped up and scalded with the meal, or they may be boiled in the milk or water preparatory to its being poured over the food, and the fat of fowls so fattened will be found exceedingly firm. In the course of about a fortnight to three weeks, at the utmost, a fowl will have attained, under this system of feeding, the highest degree of fatness of which it is capable; and it must then be killed; for if the attempt be made to keep it any longer in that state, it becomes diseased, from an intlammatory action being established, which renders the flesh hard and even unwholesome. When the fowls have arrived at a state fit for killing, they should be kept for twelve or fifteen hours without food or water, in order that the intestines may be as empty as possible, otherwise the bird turns green and useless in a short time. An objection to this mode of fattening will probably be made-namely, that it is expensive, owing to the cost of oatmeal. Barley.meal may be substituted, but it is not equally efincacious, and we strongly doubt whether it is any cheaper in the long run, as we believe that a fowl may be fattened at the same. or even less, cost on oatmeal than on barley-meal. In situations where good, sweet Indian corn meal can be obtained at a low rate, it will be found to answer quite as well as oatmeal ; it contains a very large amount of oil, and it is invariably used in the States of America as a food for all animals put up to fatten. Wheat-meal is too expensive, but some small tail wheat is far superior to barley to place in The trough, as whole grain for the fowls to pick at.The Field. repression and cure, has issued its first report. it is a long nad able document, entering minutely into the history of the disease, and offiring such recommendations as have apprereal them. selves to a majority of the Commissioners The report oponswith a few re-mark- on the object of the Commisson, and then procecds to stare that the discase was first observe ! in Creat Britain in the latter part of June. Un the 19th of June tiso Foglish cuwa hat been purchased in the Metropolitan ratto market ly a comkerper residing at Islington. On the 27th June, symptoms of discase in
the same cows attracted the attention of the reterinary surgeon, the cows having remained from the 19 th in one shed. The day after, similar symptoms were discorered by the same surgeon in a cow belonging to a dairyman at Hackney, which had been purchased at the same place on the same day. On the 21 th tro Dutch cows
in the Lambeth shed were attacked; and these likein the Lambeth shed were attached; and these lhe-
wise had been bought in the marbet on the $19 t h$. wise had been bought in the market on the 19 h .
Immediately after, this, the disease broke out in many of the London dairies, and spread with great rapidity. The Islington cowkeeper lost his whole herd of 53 ; be afterrards bought more, and lost them, making a total of one hundred and seven deaths. In the early part of July the disease appeared in Norfolk, then in Suftolk and Shropshire; then it invaded one county after another in the south and west; then reached
the north of England, crossed the Tweed, and spredd the north of England, crossed the Tweed, and spread its ravages in Scotland, until, on the 14th of October,
it had extended to 20 counties in England, 2 in it had extended to 29 counties in England, 2 in
Wales, and 16 in Scotland. Wales, and 16 in Scotland. From the metropolitan
market the disease scems to hare crossed over the sea to Holland with some Dutch oxen, which had been bipped from Rotterdam to London, and which, after being exposed in the market for three successive days, wese re-shipped from Eendon to Rotterdam.

## ©lut Bretller and Gruzirr.

## The Ayrshiro Bull, "Baldy."

Tun aboro is a life-like portrait of a goung Ayrthire Bull of excellent points and rare promise, the property of Messrs. Wolcolt \& Campleell, of New lork afilla, N Y, and first prize taker in his class at the last New lork State Fair Ite is an imported unimal, and his stock, should he do well, will be an acquisition to the Arrahire herds of this continent. In our necount of our risit to the New York Chhibition. Which appeared in Tus Civime Favere of Oct. 16, we expressed our very high opinion of this splendid bull and we hare great pleseure in presenting our readers with the above engraving of him. which has been prepared expressly for this paper.

## Report of the Cattle Plague Commissioners

## Tus Commission appointed by the British Govern-

 ment to inquire into the origin and nature of the cattlo plague, and to consider what means may provebest adapted for its


In the judgment of the Commissioners the disease is contogious-the contagion, they also think, is re markably subtlo in its nature and destructivo in its effecte. From the general characteristics of the dis case, the symptoms which are exhibited during life, and the results of post mortem ecaminations, they conclude that it is ilentical with the rinderpest, or steppe murrain, known for so many generations in the northern parts of Europe. Nor do they consider this to be the first appearance of the malady among English cattle. As early even as 1348.9, after the black death hal produced great mortality among men, a grievous placue appeared antong the catle. and swept them of by thonsanils. Afterwards at long intervals, in 1180, and in 1515, 1745, and 1757, it decimated British herds, and appeared to have taken deep root in the comery. At these different perinds commision* were appointed, and orders in Council were isuned ; but some of those regarded the disease a $\omega$ " "an incurable nature," and enjoined nlmost in wholesale destruction of the affected cattle.
Ilaring thus traced the origin and defined the nature of the disease, the Commissioners next proceed with certain recommendations for its suppression. arerted from Ireland altogether."
tion, whether it be absolute or limitel, the Commis sioners suggest that no catllo should bo allowed to bo turned on common or uncuclosed ground. In the tho fifth place, they urgo that steps should be takon for obtaining periodieal returns of all tho horned catthe and sheep within the area of every parish in Great Britain, and of their sanitary condition, with special reference to the present disense. Finally, the Commissioners deen it their duty to make some reference to Ireland, admitting that the diseaso has not get broken out in that country, and that therefore, there is no necessity for the application of the measures which have been recommended for Great Britain. Still there is some possibility of the nppearance of the discase there ; and hence it is important to take precautionary measures, so that " the calamity may bo

Such are, in substance, the recommendations of the majority of the Commissioners. But on some of the points herein mentioned, it seems there was not unanimity of opinion. Earl Spencer, Viscount Cranbourne, Dr. Bruce Jones, nad Mr. Read, hare issued a scparate report, stating that they cannot join the other members of the Commission in recommending the total stoppage of all movement of cattle in Great Britain. If such a measure were practicable, they say, it would be more effectual than any other in extirpating the disense. But they do not think it practicable. It would involve an interference with the course of trade at varianco with the national habits; and it would demand sacrifices from large numbers of persons whoare farremoved from the presence of the dizease, and who will, therefore, not see or feel the necessityforsostringent a measure. Another separate report is also appendcd from Mr.McLean, who opposes the ininterference with the traffe in cattle

These are six in number, and are of a rery simple and summary character. In the first place, they re commend that Gorernment should have the power to suspend for a limited time the movement of cattle from one place in Great Britain to another; and that thes should extend or shorten such period, and ropow the prohibition as often as circumstanees may render necessary. In the second place, the Commissioners are of opinion that the power to seize and slaughter vested in inspectors by the Consolidated Ordor may properly be withdrawn ; or that, if retained, it should be exercised only in cases where the inspector's directions as to the separation of sound from diseased stuck, de., or any general preventative or sanitary regulations assued by the Government, are not eomplied with. The third recommendation has reference to the importation of foreign cattle; and should their furst recommendation be entertained, and an absolute embargo be placed on all traffic in cattle with Great Britaiu, then the commissioners think that imported cattle should be slaughtered at the ports of landing. And further, they express an opinion that cattle should be allowed to land at certain ports only, where proper facilities can be afforded for inspection
and transport. Fourth, during the period of prohibi-
altogether, and who states that, in his opinion, the evils arising from it will be far greater than thoso arising from the discase itself.
In conclusion, the Commissioners publish a supplementary report, containing sanitary regulations for preventing the spread of the discase, certain remedies when the disease has attacked a locality, and measures for disinfecting sheds which have been affected. The pith of all these suggestions is, that increased attention should be given to secure strict cleanliness, good drainage, efficient ventilation, the separation of cattle that show symptoms of diseaso from those which are sound and healthy, and in all cases to aroid the overcrowding of catle-sheds and cowhouses.

Such is the present result of the inquiries which Iave been made, and of the evidence which has been obtained by the Government Commission. It is im possible to deny to the Commissioners the credit ol great industry and care. Their labours have extended over littlo more than a month. They have waded, during that time, through an immense mass of evidence, and bave formed and published their convictions and recommendations with the utmost elaboration. Yet, it is very problematical whether any real
practical gooll will follow as the result of their inquipieg. They hare added little to the information rieg. They hare added littie to the information
Fhich had previonsly been obtained on the sabject, and the zalue of their recommendations is very much In; ;aircel by tho division of opinion wbich prefailed amongat themselres, and which is now proclaimed to tho world. Thi" " may bo some little satisfaction in the assurance that this formidablo plague is nothing moro than the well-known riulerpest of Germany and Russia, nnd is, after nill, susceptiblo of colicacious treatment. It may haro bcen imported; it may lanre sprung up without infection in some of the liondon cowsbeds. liat the esmploms are illentical with those of the steppo murrain of the North; and, as far as practicable, the discase shonld le treated in the samo manner in Britain as in Gerinany. The practical recommendations are, for the most part, good. They aro such as commenil themselves al once to the common sense of mankind. In many cases tho value of them has long sinco been tried. is presentive measures, nothing, wo are persuaded. can bo better than cleanlinese and pure air; and allowing eren that an effectual remedy may be applied after the discase has set in, still, in this, as in oller eases there is risdom in the prorerb that presention is vetter than cure

Singelar Deatil of Beldocks.-The Furmer (Scot tish) has the following :-"Earl Manvers, of Thores by Park, during the past fortnight las lont nineteen fine beasts. Report in this vicinity soon nseribed the cause to the fatal Rinderpest; but on a post-mortem cxamination being made by an eminent professor of the Netropolitan Veterinary College, it was found death occurred from their having caten too many chestnuls and acorns, which disurdered their stomachs, and so brought on typhoid freer."

## Claf Gpiary.

## Bee-Keeping.

If a man engages in beckecping with the ilea that he shall make a fortune, he will simply be disappointed. Tens of thousands are alisappointed yearly. They are led to investments in bees, lecause somo one swarm or more has realized great profits. These are accidents, just as large puaphins, and ertra crops, in facourable seasons are. We must not calculate on general principles from were accilents, for these are the exceptions.

Eee-keeping is profitable to a certain extent, that extent depending, like other things, much upon the manner in which it is conducted. According to the statistics, bees are worth abont four dollars $y^{\text {rer }}$ swarm, that is they realize a profit mahing them worth that. This is the experience of the world. as beeseeping generally runs. Some cases aro more successful. Each one, in engaging in lecekeeping, intends to be this succesitul cast-yet he tarns out with the ordinary profit. Ife stands just as much chance to lose as to make. The probability is, that with the usual care lie will have the usual moderate prodis. Were it not so, and liee-keeping were the profitable thing these entbusiasts imanine, ererybody would engage in the business. Ise notdeceired; beekeeping is moderately profitable when fairly treated. So is hen-keeping. So is angthing which people magnify to great heights-to be let down after trying. With moderate expectations and proper treatment, any of the departments of life can be made remuneratire,
Wo will here mention one of the principal things in bee-keeping. Never engage in bees-at least largely-in a neighbourhood where they are already kept, as the pasture, so to speak, is cropped short. There is but a certain quantity of honey in each locality. Exhaust this, which is done by a largo stock of hees, and there will be little to get. A new country is generally favourable to bees; but any country is where there is much bloom and few bees. In a locality crowded with bees, keep at most hat if few strarms, as these will exhaust the honey in their immediate neighbourhood. You will get the eame honey that you would if you had a large number of swarms, in which case the large number of swarms among which the honey is difided, would not pay income on the amount invested. The fields are a pasture for hees as well as cattle, and they must not be overstocked.

Rules for Pcrciasing Bees.-Sclect two soar old stocks of large size, that swarmed the prerious year. It has been demonstrated that such stocks hare young and vigorous queens, and are gencrally well conditioned, promising a bealthy gencration. A very old atme should be rejected, for they will be found of mall size and insignificant in numbers.-Flander's Noro Bee Book

## Official Notico

Boand of Aomictltire fom Uitere Casada.
Tus members of Counts Agricultural Societies are equested to take notice that the members of the Boarl of Agriculture whose terns of office will expire in January next, in due rotation, in accordance with statute, but who are rligible for re-election, are the following, viz. :-IIon. II. Ruttan, Cobourg ; IIon. G. Alexander, Woodstock ; 13. I. Denison, Issl.. Toronto ; F. W. Stone, Fsq., Guelph; and that it will be the duty of such Societies, at their annual meetings in tho third week of January next, to nominate four proper persons to be members of the hoard of Agriculture, in the place of such retiring members.

IICGII C. TIIOMSON,
Sccreinry.
Boann of Agmictitcre Office
Toronto, Dec. 11, 1865.
To tho Readers of "The Cannda Farmer."
Subscribers to "Tho Canada Farmer" will please observe that this Issue is the last of the gear, alid that the next paper will not be sent to sny one who doek not remit for 1866. Our Club terms will be found advertised elsewhere. Porsons engaged in getting up Clubs are requested to closo up their work at once, so that abbacribers may receive their pipers without delay.

## Bound Volumes.

The curroat volumo of "The Canada Farmos" is now ruady, consisting of 24 numbers, and comprising 384 pages of reading matter in a bound form. The binding will be charged 30 cents in addition to the subucription price, making $\$ 130$ in all for tho volume. Partice deairous of having their Noa. for the precent year bound, will pleaso send thom to us, securely packed, with their name and addrema, together with 30 cents in stampe or otherwiso, and we shall retorn them bound, free by port. Vol. 1, containing the numbers for the year 1864, may aloo bo had at the amme price.

## (lhe ceanada filamer.

TORONTO, UPPER CANADA, DEC 15, 1865.

## Publisher's Notice,

TO TIIE FARMERS OF CAN.IDA.
We hare to remind subscribers to Tue Cusada Farmer, that the gear's subscription ends with the present number, and that in accordance with our invariable rule, all papers will be stopped for which a fresh remittance is not made. We lave found the cash system to work so well with Tum Farse:r that we hare adopted it for all our publications. A few who complained at first aro now satisfied that the advance system is the best for all partics. On the ere of a new rolume, we desire to call the attention of our readers to a few facts and figures, re specting the circulation of this journal. Looked at from some points of vient, the subscription list of the Casama Farmer wears a most gratifying and en couraging appearance, and we lave every reason to be satisfied thus far with the reception it has met with at the hands of the public. Our Prospectus announced that the Proprictor and Publisher "had determined to make the experiment whether a firstclass Agricultural Journal could be sustained in Canada." That experiment has been thoroughly successful. It is no longer a question, but a fixed fact, that such a journal can be sustained in Canada. The ordeal to which it has been subjected during tho past year, las beeu a most severe one, from the prevalence of hard times among agriculta-
rists, and the adoption of the cash in adrance prine:p:4 as our invariablo rulo. Notrithstanding the acere, v of this test, our subscription-list held its own womb, fully, and gare abundant evidence that thongli $0: \mathrm{y}$ of a gear's growth, this journal hat rooted itself mist firmly among the farmers of Canada. Now Hit. we hare been favoured with a bountitul harrest, folluwed by ligh and brisk markots, so that money is pientiful and business fourishing, we may reasonably expect a greatly increased circulation. We shall spare no pains or expense to mako the Casivis Fammer a worthy representativo of the agricultural interests of the country, and doubt not that with larger experience and wider obserration, it will improve unon itself. We must, howerer, repeat the statement made in our first number: " Jf the paper is to bo mado what it ought to be, it must be gexerotsis, twitboly sustained." The Clivas Farmis is a marvel of cheapness. In what other form can a volume of 351 pages quarto, profusely and beantifully illustrated, bo bad for the small sum of one dollar? The calculations respecting it as a business enterprise, have been based all along upon its commanding a very large circulation. Considering that we lave in all Canada, no fewer than 237,654 farmers, 131,982 of whom reside in the Upper Province; and that this is the only Agricultural Journal published in Upper Canada, is it not reasonable to expect, that with proper exertion, an immense circulation may be secured?
Our olject in calling attention to this subject, is more especially to stimulate the cfficers and members of Agricultural Societies to make a grand effort to increase our subscription list by means of clubs. From the first, special inducements have been offered in this direction. Jaring the past year, in addition to a most liberal scale of club rates, the Casisd Fabyer has been supplied to Agricultural Societice orderino more thin 125 copies, at the low price of Suxty Cexts. Forts-two Societies availed themselves of these terms, and sent lists varying from 101 to 725 A comparison of these and other lists is at once a pretty fair index to the netirity of these sereral societics, and a tolerably accurate guide in forming a judgment as to what might be accomplished were all to exert themselves as some hare done. Thus the County of Durham, the banner County of the C.hisda Fanmer subscription-list, sends us 725 names from its Agricultural Secieties, and we hare independently of the society lists, 843 subscribers in that County ; in all 1,505 . The County of Durham contains a population of 39,115 , of whom $3,386 \mathrm{re}$ turn trecuselves in the last census as farmers. Sixteen Counties in Upper Canada have a larger agricul tural population than Durbam. One of them, the County of Muron,-has a farming population more than double that of Duriam, viz: 6815. Huron sends us a list of 436 names all told, while Durham with less than half the agricultural population sends us a list three and a half times larger. We have no idea that the Durham people feel that they have reached the highest point they can attain, yet if every County in Upper Canada yielded as well in proportion, our subscription list would swell up at once to 50,000 . It will perhaps bo urged that a comparison between an old County like Durham, and a new one like IIuron, is hardly fair, especially as the newer parts of the county bave felt most severely the pinch of the recent hard times, resulting from a succession of poor crops. Admitting a degiec of force in this objection, it must still be remembered that Huron, though comparatively new, is settled not by raw emigrants just arrined from the Old world, but very largely by experienced Canadian farmers, who have stld out their homesteads in the front townships, to purcioase larger tracts of land where their familics may spread themselves out, and who therefore may be cxpected to appreciate highly and reace extensively an agrieultural journal. Let us however institute a few other comparisons. Running our eje .uswn the alphabetical list of countics, and singling out a few of the more notable exnmples; wo find Brant, an
old and rich section of country, with a farming population of 2,333 persons, furnishing Society-lists to the number of 39, and single subscribers 222, total 261 Bruce, a new county, but with a farming population of 4,185 , sends a Society-list of 85 , and singles 190, in all 275. Carleton, with a farming population of 3,721, furnishes a Society-list of 50 , and singles 45 , irrrespective of the city of Ottawa; which, with a farming population of only 39 , sends a list of 65 . Total for Carleton, inclusive of Ottawa, 160. Dundas, with a farming population of 2,196 , sends a single list of 43 : total for Dundas. Elgin, with a farming population of 3,248 , sends singles to the number of 203 names, no Society-list. Grenville, with a farming population of 2,478 , furnishes a Society-list of 13, and singles, 83 ; in all 96 . Glengarry, with a farming population of 2,476 , has no Society-list, but merely contributes 71 singles. Grey, with a farming population of 5,713 ,-second only to Huron in the number of its agricultaral inhabitants, furnishes a single list of 125 ; total for Grey. Haldimand, embracing a fine section of country, and having a farming population of 2,629 , has no Society-list, but sends 119 singles. Kent, with a farming population of 3,453 , furnishes Society-lists of 60 names, singles 144 , in all 204. Lincoln, in some respects the garden of Canada West, with a farming population of 1,993 , sends no Society-list, but has 173 singles. Leeds, with a farming population of 3,706 , sends Society-lists of 38 names, singles, 75 ; total, 113. Middlesex, a splendid farming region, with 5,930 farmers tilling its fertile soil, sends us Society-lists of 155 names, and singles, 509 ; total, 664 . Norfolk, another fine section of country, and long-settled, with a farming population of 2819, has no Society-lists: 118 singles form the total for "glorious old Norfolk!" Oxford, one of the finest farming sections of Canada, with an agricultural population of 4,353 , sends us Society-lists of 123 names, singles 407; total 530. Renfrew, with a farming population of 2,679, sends 61 names on Society-lists, and 106 singles; total 167. Stormont, with 1,819 farmers within its bounds, furnishes a single list of 10 !Perth, with 4,513 farmers, sends 162 names from Societies, and 391 singles; total, 553. Simcoe, with an agricultural population of 4,614, sends from Societies 141, and singles, 284 ; in all 425 . Waterloo, with 2,792 farmers, furnishes 325 single subscribers. Welland, embracing within its bounds, most of the farfamed Niagara District, with a farming population of 2,181 , sends singles to the number of 129, -grand total for Welland! Wellington, fertile, turnip-growing, stock-raising Wellington, with 5,407 farmers fattening on its unirivalled soil, sends 155 Society names, and 486 singles; total 641 . It is clear from these comparative statements, that with moderate effort, the circulation of the Canada Farmer can very easily be doabled, trebled, and even quadrupled. In addition to the brilliant example set by the County of Durham, other instances may be cited to show what has been done in some places, and can easily be done in others. Thus, the County of Wentworth sends us 1,083 sabscribers. This, however, includes the City of Hamilton, which to its praise be it recorded, sends us 500 names. This flne list is chiefly due to the activity of the Horticultural Society of that city. Even Toronto, in this respect, "pales its ineffectual light" beside the radiant example set by "the ambitions little city," furnishing as it does only 208 subscribers. The County of York, inclusive of Toronto, sends us a list of 895 , which might easily be doubled were suitable exertions made to that end. Why, for instance, cannot the combined efforts of the Toronto Horticultural and Gardeners' Improvement Societies, in a city of more than twice the population, at least equal Hamilton? The County of Hastings, with little more than two-thirds the population of York, and no Toronto in it, furnishes a list of 812 . Halton, with only 1.877 farmers, has 503 names on ourlist; Lanark 737; while Northumberland sends us the respectable number of 1273 names.-

Little Russell, with only 690 farmers to boast of, furnishes 44 names.
It is not the least encouraging feature in our circulation, that we have many patrons outside the farming community. Hamilton is only credited with 26 farmers in the occupation department of the census, yet as we have seen, it nobly sends 500 names to our books. Toronto has only 67 farmers within its bounds, and yet takes 208 copies. Ottawa, with 39 farmers, furnishes a list of 65 . The census does not tell us how many farmers reside within the precincts of Brockville, but to its honour it sends us 195 subscribers. In our first issue, we stated that it would be our aim to make the Canada Farmer indispensable to every one who cultivates a rood of ground, and from the amount of space devoted to Horticulture, we may fairly include the gardening as well as farming commanity within our parish. Moreover, there are not a few pent up in city and town houses, who have not even a rood of ground to cultivate, who look forward to an escape some day into the country, and have many pleasant anticipations of rural life. To such the perusal of a journal such as this, is not only a preparation for the pursuits in which they hope to spend the even-tide of life,-but with their decided rural tastes is very like looking out of a town or city window into the country. Our Household, Poultry Yard, and Miscellaneous departments, are useful to others besides farmers and gardeners, and during the coming year, the department of Natural History will enhance the interest of the paper to general readers.
It is decidedly encouraging thus to survey the field of possible circulation, and see what room there is for indefinite expansion. And we feel that in urging the officers and members of Agricnltural Societies to take up this matter, we are pleading for what,more than almost any other means, will tend to the increased prosperity of these organizations themselves. It is the reading, intelligent class of people who take an interest in such Societies ; and, moreover, the offer of The Canada Farmer at its lowest club rate, is often found to be an effectual argument inducing membership in these Societies.
We cordially tender our best thanks to all who have laboured in the past to increase our circulation, and beg to assure our kind friends in various parts of the country that we highly appreciate, and shall ever gratefully remember their endeavours. Even in those counties where the lists are comparatively small, we are aware that there are those who have done what they could. Such deserve, and will please accept our hearty thanks. We beg a continuance of these favours from old friends, and trust they will be emulated by new ones. In this matter, union and co-operation are needed. Let each in his sphere and circle of influence do something, and the work will be accomplished to the satisfaction of all.
"The Farmer's Gatr."-We would direct attention to an advertisement in our present issue under the above heading. Having two gates in satisfactory operation on our own premises, which were constructed according to the plans advertised, we can confidently recommend them. The cheapness and simplicity of this gate, are such as to leave no excuse for the existence of bars. Let every farmer, not properly provided with gates to his fields, improve his leisure moments during the winter and make a supply.

## Notice of Publications.

The Rectproctity Treaty, pp. 15.-This pamphet gives the history, general features, and commercial results of the important Treaty to which it relates. It is the admirable speech of the Hon. Joseph Howe, of Nova Scotia, delivered at the great International Commercial Convention held in Detroit last July, put in pamphlet form, for wider circulation and more easy reference. Published by T. and R. Whitr, Spectator Ofice, Hamilton.

Ceristlan Union in Canada: its Desirableness, Possibility, and Extent. By Richard West, pp. 20.We have received from the publishers, W. C. Chewett \& Co., a copy of this pamphlet, the object of whichthe promotion of Christian Union-is certainly a very laudable one.
New Music.-We acknowledge the receipt from Messis. A. \& S. Nordheimer of the following pieces of new music : " Decs Misereatur," ("God be mercifal to us and bless us"), by Mammat, arranged for four voices. This is a very fine piece of music, specially suited for church choirs, and appropriate either for ordinary or anniversary occasions. The manner in which it is got up reflects much credit upon the enterprising publishers. The Band: a collection of choice music, such as is performed by the military bands. A selection of ten of the most admired pieces is bere presented to the musical public, who will, no doubt, show their appreciaticn of them by purchasing them largely. Though it is band music which is selected, the whole collection is adapted to the piano and suited to the drawing-room. The Messrs. Nordheimer deserve much praise for their endeavours to furnish choice music of Canadian publication, and we have no hesitation in saying that the entire "get-up" of the pieces issued by them equals the issue of any other music-pablishing-house on the continent.

## Country History: A Good Example.

Messrs. McLagan and Innes, the enterprising proprietors of the Wellington Mercury, announce, in a circular, a copy of which has been sent us, that they have been engaged for some months past in collecting materials for a "History of the Early Settlement of Guelph, the Villages and Townships in the County of Wellington," and that they have made such progress as will enable them to commence its publication in the Mercury, in the first week of January, 1866. A portion will be given in each week's Mercury, and it will be continued weekly until the whole is finished. We quote a paragraph from the circular above mentioned :-" We are happy to inform you that many of the most intelligent and oldest settlers in the county (whose names and reminiscences will be given as the work progresses) will be contributors to it. In addition, we have, after long and patient search, succeeded in collecting many rare and valuable documents, books, letters, reports, \&c., bearing on the early history of the County. From the actual experience and observations of settlers, and from the information to be obtained from these records; we will thus be able to lay before the public as full, complete and anthentic a history of this district as it is possible to give. Many interesting reminiscences, many exciting stories, many amusing adventures, and many important facts not generally known, will enliven these sketches. As a record of the past, it will ke most interesting to the old ; and as a means of supplying information on a subject with which they are but slightly acquainted, it will be equally valuable and interesting to the young. The history of each Township will be brought down to the present time, and its progress from the period it was first settled till now, can therefore be easily traced."

This project, if carried out in a lively and entertaining manner, as we have no doubt it will be, cannot fail to prove an attractive feature in the Journal above-mentioned, and will be a valuable contribation to the local history of Canada. We cheerfully give publicity to the matter, at once, in the hope of aiding somewhat in the accomplishment of the object aimed at, and suggesting to others the performance of a similar duty, in other parts of the country. Many interesting facts are fast becoming traditional, and their memory will be utterly lost, unless the hand of some historian hastens to record them. We know of but few better purposes to which a portion of space, in o local journal, can be devoted.

## Writigh cltaniatys.

Minomise of the Stason.-A British contemporary says: "A second crop of pears has been grown at Haghec, near I es, where strawberrics, nun nearls ripre, growing, lu , at open air, mag le sect."

BCil's Aff - Mr states : - We to not know from an ndicial soure what measures linre been taken by the l'risy Come. , secure a fair trial for the homoccopathe have wo treatment. but we unteratand that a meeling of the Cunncil on Suturday weeh a resulntion to the crfeet that the homncopaths sbould be permitted to try lheir esstem, was agreed to. Tho resolution, Tre believe, was atrongly supporical by Loril GrimVile. The experinenis will be carricd out at the
Hosal Veterin ry College, Camdes Town, and will, ve understand. lio continuml until Cbristmas.

Itrack eros Was ny as Mamiant. - We clip the following from The Ficid:--"Last week, as Edmonds's (late Winmbwell's) menagerie was entering Maidatone, a lony in the crowd offered the elephant an apple. One of the men in atteadance interfered, sherenpon tho animal scized him round the waist, dashed him to the ground, and tried to gore him
with his tusks. The man was cravling away, when With his tusks. The man was cravling away, when
the animal again seized him, and lashed him ngainst a wall. IIc was at last rescued, but was found to lie sererely injured. The keeper, who was riling on the elephant, did all in his power to divert lisatitention, but without success. The animal is dugeriberol as generally very quiet and docile; but it is said the injured man onco teased the animal in a manaer whichjured man onger forgot."
Enonuors Beecir Ther:-The Shefieh Thegraph has the following:-"It will be in the remembrance of some of our readers that in the month of June las: a rery large beech tree, supposed to bo the largest of its kind in lingland, was blown down in the Worksop Manor l'ark, the seat of Lord Folcy, and
with whose familf, as well as the Norfolk fimily, the With whose familf, as well as ehe Norfolk family, the
tree was a great furourit. This tree has sinco beea purchased hy Mr. J. Coaton, Imber merchant, of
Worksop. Its weight was near upun furty tons, and Worksop. Its weight nas near upun forty tons, and nino feet from the root, the bole of the tree measured cight fect in dianeter, and took a number of men fue days, at the cost of $£ 1$ per day, to orepare it for re-
moral, and w.as equal to thirty-cight loose-loads. The tree was haken to the purchaser's saw-mills, to be cut into chair.wood and other purposes.'
Coxparative Price or Prodece is Iremand,-On this subject the Clonmel Clronicle discuarses as fullows. - "In $18: 0$ and $18: 31$ watter was selling in Tinperary at from $36 s$. to 40 s por firking of 69 llh.; it is now s0a. for the same quantity. The price of bacon has increased in the same proportion. In 1 s.al the per cwt.; now he rill crumble if the price f.lls belor 65 . Here, then, in reference to our wo staple commoditios, we lare the price of butter and bacon within a fraction of being doubled since 1861, and this notrithstanding the importations both from the United States and from Canada. These importations since the conclusion of the American war, hare greatIf fallen off, and it is expected that for some montlys to come they mast prore as deficient as at present."
Feedina Prorerties of the Mangol.d.-A correspondent of the Scollish Furmer writes: "The mangold, like the turnip and all other root crops, varies in feeding properties according to soil, climate, manurial enects and other circumstances under which it is cultirated. According to chemical analssis, it is more valuable for feeding purposes than the cummon turnip or swede. In pradtice, during the autumn and carly winter months, we consider it inferior in feeding calue to good swede turnips; whilst during
March or April, and as the season advances, we March or April, and as the scason adrances, we
consider it almost in wut as food for store stock. Wre have used it rather extensirely for some years, when pulped and mixed with cut straw, and allowed slighty to ferment, in which case chemical changes takes place, enabling the animal more easily to assimilate the substance of the food. We bave used and found the roots equally raluable for erres sucking their lambs, and for dairy
cows in milk; and when given in conjunction with cons in milk; and when given in conjunction with
oats, beans and other nitrogenons foods, the quality of the secrotion is not deteriorated in value. The mangold being originally a native of a warmer climato than that of tho United Kingdom, other things being ejaal, wo invarinbly get our best crops during dry, hot summers. The past season was, thercfore, unPurourable fur the production of hesry crops of this
root Ours wat greatly under tho arcrago of former

Ploigef of hats at Brafian.-We learn from the Alderdeea Free Piess that "a colony, or rather an army, of these pernicions vermin have recently migrated into our mountain land, and are literally swarming in myriads orer the length nal brealith of The destrict, causing ntter elismay fin mang of tho lieges. Drery homesteal, farm-gard, anil barn is teeming with them, and the destruclion to property in many cases brought under our notice is tremendond. Our shopkepers hare hat whole webs of
cluth cut through aud through, and ansets and fuit disappear nt fabulous rates. One man, living in a bothy in the wilds of Glencallater. has lieca ac, anally under the necessity of learing his clomicile, tho rom cions wre!ches liaving disposed of a!l the eapables, ding piecemeal. and cut up the blankets and bedfew dags ago the firm unanager at Allanguoich hail in run out of the stackyard, obliged to toke shetter."
 lishes the folluming answer to a corre pomdent:-- Capercailzie will find the following an excellent receipt for !arness blacking. Il appeared in yoar paper masy years ngo, since which I have used no ollare; and being out in all kind of weather, am perfeet!y crnvinced of it, superiority 1 those soll. and it is not so expenswe :- Beeswax (shred fine) zoz. turpentine sumcient to corer it ; let them stand till the wax is li, slyed (three or four days) ; ivory hlack dnz.. olive oil (l use neatsfoot oil) 2on.., I'russian blue 2oz. linb the ivory black and I'rusgian bh:e well together to a fine powder in a mortar, then add the oil, and gradually the other ingredients, and
thoroughly mix :hem. If it gets hard loy lieep, soften with turpentine. J hare only one brush nised-one end for the blacking, the other for polishing."
Aroet Ilybs Pam.-Wo clip tho fulloming from an Euglid! contomporary: "ds soon as it was enclosed, is appears to hare been promoted frum a manor into a park, with a " keeper," who ereatually was clignifed with the title of "ranger.,' Tue first liecper on record was George Roper, lisq., whose pay was 6al. ady. In 15j! the omico was dirided, and the salary raised to an. a day, with pasture for twelve
cons, one bull, and si.c oxen. The keepership appears to hare licen lield anceessirely hy Carcy, I ord Ilunslon, Robert Cecil, Farl of Salisbury. Sir Walter Cone, sir Menry Rich, and the Earl of Newport, bewore the licuethon, when, three gears afice the dusih of Charles I., it W.as ", resolred that IIfde I'arh be sold for ready moner," The park, as we learn from the pristed particulars of the sale, was pat up in three lots, the whole, 621 acres, which it then con
 " manger," to his brother, the lonke of Gloncester, who was succerded by Colonel James Manilon, one of the grooms of the bedchamber, afer whose willow, Lane we.ce called ILamition Ihace

Ons: Wir op Maning a Bag.-The Paris Correspondeat of the Irish Times writes as follows:-- Sportsmen ia France as well as in England are often exposed to the shafts of ridicule, especially if unlucky ; but fortunato sportsmen sometimes do not cseape. A certain marquis lately excited a good deal of jealouss in consequence of his extraordinary success in bagging game. A doctor of his acquainlance, no great land with a gun, was particularly
envious, apd he was invited to set a watch npon the marquis, by which means ho obtained the secret of his boasted success. A dinner was appointed at the chatean of the maryuis, and the doctor made a heary bet with him that on this day ho would not kill a single licad of game. The marquis, horever, came at the appointed time, and, as usual, had his bar filled with hares, pariridges, pheasants, and snipes. The doctor commenced to joke with a little pleasant bantering, and remarked that if the dead conld speak they conld tell a strange tale of the way in which the marcuis became possessed of his game. The marquis retorted with the remark that this would be exactly the case if the doctor's patients could gire Hardly had the laugh subsided when the doctor opened the mouth of one of the hares and pulled out a piece of paper, on which sas vritten, "The mar-
quis lought ne of - 'The doctor then explained thot he had been round to all the game dealers of ti:ce neighbourloud, and hat bribed them to putsuch a ticket into the mouth of every bird or haro bouphit by tho marquis on that day. Ajglers sometimes buy their finh to save appearances. A popular writer, remarking upon this fact, says, "It you want fish, take not a line, but a basket, and go not to the rives,
but to the market."


The Lavounou op Finntra, and Fruins.-The Lila jun Apri-" Gire me leare." The Rose in June - Well, Im blowel. The Asparagus in JulsCome anil cnt again.". l'eas in August-"Shell out." The Appl. iree in Seplember-"Go it my l'ippins.", The Cublbaze in December-"My Leart's my own."
A Masster Lemon:-It is thought that California ru: to leer invariable principle of being alecad in everyilhing, has now prodnced what is probably the i. - st lemon ever grown. The last steaner brought "1 rem isos Angeles a lemon whirh measures 181 inches in circmmference one way, and 13 inches the
olher, nnd is soand and lieffect -San Francisco Mining I'ress.
Niw Wathrmaion:-At the recent Chester connty Agricultural Exhibition, held at West Chester, ono of the judges o:a fruits ndvised us of a superior water melon, brought to tl:c altention of the committec, ex Chester county. It has the remakiable property ot keeping through the winter and preserving its delicions llavour unimpared. It promises to bo a great acquisition in this dite. Hayand Taylor informs us he obtained the seed bimself on the Yolga, in the interior of Russia, from a melongrown on the Persian shore of the Caspian Sea, not being aware at tho time that it possessed the property of long keeping afte being gathered, althotigh he knew that there wero such muluas in hussia. It seems to retain this property here, as the melons raised this season havo
uow ween six week off the vines, fully ripe, and now been six weeks off the vines, fully ripe, and
promise to keen for three months set.- Iforris hural Alde.
Dolmbe Gurfas Thas.-A correspondent of the Gardcucrs Clircric'c writes on this subject as follows I have found that double-grafting of the golden IIamburgh vine hasstrengthened the footstalks ofitsberries On its own roots in a late rinery and in an unheated horder it prulluced large loose bunohes with weak costsialhs. besiring to have it in an carly vinery, 1 rorlied it on the bhack Lamburgh, on which it gres vigorously, but still it produced looso bunches with tender footstalls. The same gpring and in the same Luuse I hith itworhech on a strong shovt of the mascat of A.-x.indri.h, which hat been grafted on the black Hanburgh the previous spring. Cutting back the muscat to within six inches of the black Hamburgh the scion of the goliden Hamburgh was worked on the muscat, adupiang the cumanon tungue system of grafting. It fruited at the samo time as the above, but the result was diferent, the bunches beng compact apparently fit to otand carriage cqually well with any other grape, and in every respect like a well-finished bunch of its 'black brother'"

Winvow Gardens.-The efforts recently made to encourage window-gardening are likely to be followed bra beneficial effect. It was indeed interesling on a late occasion in Edinburgh, to behold the flora! produc tions of closes in the Ligh-strect and Canongate, noted for their crowded population and forbiuding atmosphere. The old iron pot bearing a treasured geranium, the twining plant in its rude wooden or earthenware can, forming its coils around hoops picked up by a cimler-woman among the ashes thrown out into the streets, and numerous other flowering plants, showed the advantage of encouraging the working classes to c: for plant-growing. The posies gathered by the children from fire to ten years of ago were objects of great interest, and proved that the prizes oflered ha:l set the young to collect the bean teons gems which grew wild in the ficlds, in the meadows, and on the hill-sides; the small collection of named weeds sent by a young boy conld not be seen without calling furth sentiments of the warmest sympathy. While the wild flowers of nature or the cultivated plants of the window afford sources of pleasure to the poor, the productions of the garden sunply recreation to the rich; thus the floral treasures of the earih contribute to the comfort and gratification of all members of socicty. In sunshine and shade, in prosperity and adrersity, in the early days of youth, in tho vigour of manhood, and in ripe old nge, the garden is an object of interest. The philosophers of olu meditated in academic grores, and many a man famed in literature and science has derived hints from meditation amons fowers.-Sunday Majazine
for Ow.

## ciliscrilancous．

## A Word to Smokers．

As fres，when they occur in wimer，ouring io high Finds and other camese，are often very disasirous，we shonta take especial pains to guard geanst them．The moans ly which conflagratic，ns ard kindled are mani－ fold，vet wo prono：e liriefle ts notice hat athe－the cigar and pipe．Both of these are iudulged in ex－ sensirels，and both nre prominent sourees of molern contlagration，Smoking，while it allase excitement athl promotes ease，teaches an indiridual to become carcless to a criminal degrece．The halfeonsumed cigar or smouldering pipe is cost aside wilboat a moment＇s retlection upon the probshbe consernernee． of such an aci．Tubaceo contains nitre．and like ＂tonch weed，＂it may continue ignited for homre． Too many of our fires ane traced to this cance，and if people will smoke，it is time that they were learning to be a little cantions and proment．If a cigar．when carelessly thrown away，falts into a bundle of shat－ ings，the lisst curront of arr may fan the smouharing spark imto a flame，and if undiecorered．prose most elin．estrons．In the same way，a cigar may le dropped isy the wayside of thrown into a fieble．and by at brecze be carricil into a haystack ur straw pild，ind produce a fearful conlhgration．
A smoker chould nerer lay his pipe away，or cast the stump of his cigar down，withont lecing certain that the last spark las heren extingnished．Imd ho should not forget that the bitre comtained in the tobaceo is calculatel to deceire his ere sight．The fire may le preent and yet not apparent to the hasty observing eyc．The inviterate smoher，too miten，is a licensed walking incendary，and is nearly as much athensed walking incentiary，and is neary as much to be feared as the dark－nearked vilhan who apphis
the burning torch to gour barn，store，or dwe iling house．IIe carries the dangerons chement with hitn． and not a day passes that our property is not placed in jeopardy．Ife may kindle at fire when and where We least cxpect it，and when the conflagration rages hottest and fiercest，he can stand coolly by aml hear his criminal carelessness disen－sed ni an arcident． Surely we hare had enough costly lessons $t$ ，teach the einotier the importance of heing more careful． We lave cnough canses for tires withont adding to them that of tobiacco．－Sportman＇s Oracie and cinemtry Genticmun＇s jevespaper．

登家＂If fon arer think of marrying a widow，＂ said an anxious parent to an heir，＂select one whose tirst husband mas huatg ；for that is the only way to prevent her from throiring lis mernory into your face，and making annoring comparisons．＂＂Even that wont prevent it，＂exclaimed a crusty ohd bache－ lor，$\cdots$ she＂ll praise him by eaying that hanging would be too good for sout．＂
fov－in innkeeper lately complaining to a wentle－ man，that his house was greatly iafested with rats， and that he would willingly give a considerable sum to got rid of them，was on the following morning thes accosted by a Frenclaman，after he had received his，bill，＂I shall tell you vich way you shall get rid of de rat．＂＂I shall be much obliged to you if sou of de，rat．＂replied the landlord．＂Yell den，only clarge can，rephied the landlord．＂y rat as you charge me，and int be hangrly if de rat ceer come to your house again．＂
liacino at Aghecitemar Fams．－The California Farmer complains of the＂meagre and pitiful＂exhi bition of agricultural products at their late State Fair It says－＂The race for supremacy in the minds of the Directors of the Society lias lieen won at the stock frounds by the fast horscs；they have caten up all the fodder，and the inducement to our cullivators is not sufticient to secure their interests or habour in be balf of the Society．＂
Woma＇s Far for 1867．－Preparations for the Paris exhibition of 1807 are going on．The park which is on surround the central buithing is to be laid out in the English style and will contain an international laeatre，and a lawn where the games of all mations will be played．These will also be a lecture room． with a labomory，for tho use of any foreign surant who may have a new theory to propose．The exterior circle of the park will contain the arricultural cxhilition，with model farms，domestic animals，and c shibitions of horticulture and pisciculture．There are to be twonty cntrances，and it is proposed to visablish a communication by railway beuveen the ditherent paris．The hydraulic machines will be upon the biak of the Seine．
how to Jomer，the Weatheiz in the Sig．－The colous of thes at different times afford wonderfully cood guidance．Not only docsa rosy sunset presage fair wather，but thero are other tints which speak with elrarness and accuracy．A bright gellow in tho
erening indicates rinul ；a pale gellor wet ：a nnutral gray colour constitutes a farourable tign in the erening－an unfavourable one in the morning．The clouls are full of meaning in themselves．If they are soft，undefined and feathery，the weather will be tive； if lice clges are lard，sharp nul definite，it will be foul．Gemerally spearing，any decp，unusual lues betoken rind und rain，whild the more quit nud delicate tints hespeak fair weather．Situple as these maxims are the lbritish Doard of Trade has thought lit to publish them for the use of suaforing men．

## 期arkets

## Toronto Mnrketm．

＂Camada Fariax＂Omce，Dhece 15， 1565 Wie bavo to report a dull and lechuing market．Io tho abs ne

Filour－mathet numl．al，ma demond，and few transetimes

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Handon Marketn，Dece 11．－Vers Jinto ofr fing indas，





 To $\$ 10$ ．Strace， $1 \times r$ load， 5250 w $\$ 350$ ． 1 ＇L2s $\$ 210 \$ 3 \mathrm{jer}$ land
 ICr bentivi Turnips ioc to líc ger bushel．－F＇ree l＇ress．
Javiov I．ive Stock Baliant．－Thn great rush of Ametican eatile dealars is eomerriat eubsidins in this district，owlon to tho On aturday Jurtam mitich cews ware held at from $\$ 30$ to $\& t 0$ whle for conssand herfen of the onlmary species，prices from $\$ 25$ 0 t：－here ashal and obeained．－ryee l＇ress．
Gialt Marketn，Dec． 11 －FTour，per $100 \mathrm{hk}, ~ \$ 3$ to $\$ 3$ is Full Wheat，jwr bushel，$\$ 130$ to $\$ 1$ 45．Spring W＂leat，jer





Ownego Marketa．Dec 11．－Floar－3lanict dull，but ret winter．\＄11 to \＄11 ：＂s frmm whito：and $\$ 12$ for duublo extro from primo whito whemi．Graix－itheat continues quict and he havi nu sale to report．Corn quict Rarley factiso and nominal hye dull．Cinalas al 95 e．Silil FezD－Shorts aro quotcu


 lime－$\$ 1$ to wholesolu，$\$ 1$ iu rutail per tarrel．itaster quoted at \＄1 30 jer barrel．
New York Markety，Dec．11．－Cutton dull，isc to 40 c or miduling flour－luceifics， 25,000 buls：inarict dull nint
 \＄ 7 H0 for nujerlor Wastern；$\$ 765$ to $\$ 5$ for common to inediun cxim Hestern；and $\$ 820$ io 89 Co for common to goonl shifping braids extra rounidiloop Ohito．Canadian ilour 10 c to 20 c lower； cales at $\$ 785$ to $\$ 810$ for common；and $\$ \$ 15$ to $\$ 11$ for food to chalecerim Wheal licecijits，none；maskel dull nabl leto 20 FI Si 10 \＄I $50-2 n$ oussdo price corn－liccuints， 11,000 bushals；market dull not havy；sales ai 83 c to 92 c for unsound； 03 c to 01 c for sound mlact＇Western． Oots dull and licary，at 4je to boc for unsonnd；and sic to coc

 crude，oic to CSc for reflued to lwud，and Sje to sic for to．freo．
Thtest 3isakrts－Flour closol dull abl unetlicu，and loc to



## gaturtisements．

THE FARMER＇S GATE＇而il｜


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So simple of Construction that overy Farmer can make it，if supplied with the phans．
＂Tho lest farm gato no hnow of．＂－Clyads liavers
 1， 1 sca.

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## AYIRSHIRE CATTELE．


 Apply to

IILGH C TIUSHON：
Tofuntia，Dec 15， 1565.
Lisaulor

## MONEY ON MORTGAGE．

 projarel to lonn on jlortasia or Improral I＇ropertics itho anoubt towe repujab in imstancans sjreat orer any number ot cant roa deo to as tho borruter may liefer

Fe DRADHLRNE，
lass door saryih of Treat Uadica
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## BLACISMITH＇S NOOLS

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noutent IRegniating Ininst，Tujere Iron．
IPrent Joonble dienred Tyre IBender．
And other Hincksmith＇s Tools．
Fon Sal．E，liY Allembill sotivg，Junior，


## FOREAKIE．

A FIEST．CL．LLS Dalry and Griln Farm of 200 acren，compicte or in paris to sutt tho ajplicant，clomintly located ou the

 Villago broperty，will te taken ia part payme：．dustess，
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Hicton，\＆

## LANDS FOR SAME．

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South．wezi cor，or
Toronto，Oct．South．$\underset{2}{2}, 1864$.
v－19 if

Tir Casada Farikr is printed and pabflathed on tho Ist and Sin of cach month，by Grongx Drows，Pronrictor，at his Oncc io． 20 and 3 king sirect F28，Toronto，U．C．Wbero all commu ntcations for the paper mus：lo acurcsed
ar Subscriplion l＇nce $\$ 1$ per annum，（Pospage Frez）payablo Suleserilers may cither tecin with No．may bo liall for $\$ 1.30$ for 1SGt，or with tho fret No for isei．No suberiptong re ccired fur les than a year，and all commenco with the dirs number fir the respective ycars

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Com
＂The E＇ditor of the Chricultural subjects aro inrited，addromed paper are to be sent in GEORGK BROFN，

